Announcement of Courses

Course Numbering System Defined

Unless exceptions are noted following the course description in the college catalog, the following numbering system governs the applicability of courses toward completion of programs.

Grade Point Averages (GPA) are computed on degree applicable courses numbered 1 through 299.

1-299: Courses intended for associate degrees, occupational skills awards, and transfer purposes.

1-99 Courses which are parallel to baccalaureate-level courses that generally transfer to both CSU and UC. Exceptions to this rule are noted following the course description; in such cases, students should refer to the UC Course Agreement for details regarding credit limitations. UC transferable courses do not necessarily apply toward major credit. Students should consult a counselor and/or visit www.assist.org for information about course articulation for a particular major.

100-199 Courses which are parallel to baccalaureate-level courses that generally transfer to CSU but not to the UC.

200-299 Courses that are typically intended for certificate and associate degree programs or for skill development related to both basic skills and employment. Courses from several disciplines may be offered in this category of interest and provide value to all ages, but particularly to the mid-life and older-adult student. Course content is related to both skill development and acquisition of knowledge for second-career and personal development. These courses may occasionally carry transfer credit to four-year institutions, however, the receiving institution makes the determination whether to accept the course.

300-399 Basic skills courses. Courses in this range completed Fall 1988 and later are not applicable to associate degrees or certificates, nor do they carry transfer credit to four-year institutions. These courses do not count toward the 60-unit requirement for graduation and are not used in calculating students' grade point averages for associate degrees or certificates. A state-imposed restriction limits students to taking no more than 30 units of basic skills courses.

400-499 Courses which generally provide vocational training but are not degree applicable. Many of these courses are open-entry/open-exit and/or are scheduled for less than a full semester.

800-999 Courses which generally provide learning center hours that require concurrent enrollment in a designated course. These courses are traditionally offered in conjunction with English as a Second Language (ESL) and International Language courses to provide enhancement and practice skill in the associated course.

Emeritus Courses: Courses that are typically designed for older adults. These courses do not apply toward degrees or certificates and do not carry transfer credit to four-year institutions.

Prerequisites, Corequisites, Limitations, and Recommended Preparations

(Title 5 §55000 Article 1)

Prerequisites, Corequisites, and Limitations on Enrollment are enforced as conditions of enrollment. Failure to comply with these stated requirements may result in a student being involuntarily dropped from a course in accordance with Title 5.

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. In accordance with Title 5 prerequisite courses must be completed with a satisfactory grade (defined as A, B, C, P, or CR in section 55023) in order to enroll in the course requiring the prerequisite. State laws require the enforcement of prerequisites therefore a student will be blocked from enrolling or dropped from a course if the student has not met the stated prerequisite. As of Fall 1995, any student enrolling in a designated course with a prerequisite must show evidence of completion of the prerequisite course or the equivalent with a satisfactory grade or complete the appeals process. For further information, contact the Matriculation Office.

Corequisite means a condition of enrollment that requires a student to concurrently enroll in one course as a condition of enrollment in another course. Corequisites are enforced and a student will be blocked from enrolling in a course if they do not simultaneously enroll in its stated corequisite course.

Limitation on Enrollment means a condition of enrollment which limits how students qualify for a particular course or program. Limitations on enrollment include auditions, physical examination by a doctor, and/or admission to a particular program. Limitations on enrollment are enforced and a student will be blocked from enrolling if the stated limitation has not been met.

Advisory or Recommended Preparation means a condition of enrollment that a student is advised, but not required, to meet prior to or in conjunction with enrollment in a course or educational program. Students who have had training or experience which they feel is equivalent to the recommended preparation may enroll in the course level appropriate with their experience. Concerns about enrolling in courses with recommended preparation should be discussed with the instructor, dean, or a counselor.

Coursework Standards and Expectations

In a lecture class, the preponderance of the student's work is done outside of class — e.g., reading, working on assignments, writing papers, preparing for class, and/or performing other required homework or coursework. A typical three-unit lecture class requires at least six additional hours of student work per week.

In a laboratory class, the majority of the student's work is done in class. A lab class may require additional hours of student work per week.

In a learning center, virtually all of the student's work may be done in class.

In all cases, students carrying a full-time class load of 15 units should expect average workloads of 45 hours per week, inclusive of time spent in class.

Repeatable Course Models

(Also see Course Repeatability and Repetition in the Registration and Academic Regulations sections of this catalog)

State regulations (Title 5, sections 55040-55045) restrict the number of times a student may enroll in a course within a community college district. Most credit courses are designated as “non-repeatable” in accordance with Title 5 thereby limiting students...
to a single enrollment if the student receives a satisfactory grade (A, B, C, P, or CR) or an Incomplete; if a student receives a substandard grade (D, F, or NP (NC)) in a non-repeatable course they may enroll in the course again to alleviate that substandard grade. Students are limited to a maximum of three enrollments in non-repeatable courses. Any enrollments beyond the student's initial enrollment are only permitted to alleviate a substandard grade; once a satisfactory grade has been earned the student will be ineligible to enroll in the course again. A student may request to have the substandard grade disregarded in the computation of their GPA by submitting a Request for Transcript Repeat Notation to the Office of Admissions and Records; see the Academic Regulations section of this catalog for more information.

For exceptions to these rules — including significant lapse of time, extenuating circumstances, legally mandated training, significant change in industry or licensure standards, and special classes for students with disabilities — see Repeatability and Repetition in the Academic Regulations section of this catalog.

Those courses that do allow for more than one enrollment are designated with an “R” code (R-A, R-E, R-I, or R-99) at the end of the course description as well as a number, which specifies the maximum number of times a student may enroll in a course. For example, “R-E-3” means that after the initial enrollment a student is permitted to enroll a maximum of three additional times. Students registering in a course not identified as repeatable or repeating a course more often than permissible will be withdrawn from the course.

Once a student has taken a more advanced course they cannot go back and repeat a lower-level course.

Repeatable models are as follows:

Model A (R-A): These are separate and distinct courses in a skill-building sequence. Any combination of courses within the sequence (beginning, intermediate, advanced) may be taken a maximum of four times combined.

Model E (R-E): A course with this designation has one course number and title but has a different syllabus each time it is offered. The course may be taken a specified number of times (not to exceed four) to afford development through supervised practice or group assignments.

Model I (R-I): These courses often have a number of versions with varying unit values. A student may repeat the course up to the maximum number of units as specified in the course description in the catalog.

R-99: Non-credit courses; these primarily include continuing education courses for older adults (Emeritus Institute).

NR: The course may not be repeated.

Reading Course Descriptions

**Course ID**

**Course Title**

ENG 210

**WRITING CENTER**

0.5 Unit; 1.5 hours learning center

The Writing Center is designed to be taken in conjunction with any college course requiring written assignments inclusive of but not limited to, courses in the social and behavioral sciences; liberal arts; health sciences; and fine arts. Emphasizes individualized instruction and writing skills. Specific course content varies with student need and ability. This course is offered as an open-entry/open-exit course. This course is offered on a pass/no pass basis. NR

MUS 148

**JAZZ ENSEMBLE**

2 Units; 2 hours lecture; 2 hours lab

Transfers: CSU

Studies historically important and current large ensemble jazz music. Provides practical experience in organizing a variety of instrumental combinations. Practice in standard jazz ensemble phrasing and improvisation. The jazz ensemble will perform at different functions and may perform with nationally-known guest artists. Offered as open-entry/open-exit. Students are limited to a combined total of four enrollments in MUS 148, 241, and 242. R-E-3

N 173

**NURSING CARE OF CHILDREN AND FAMILIES LAB**

2 Units; 6 hours lab

Transfers: CSU

Prerequisite: N 161 and 172 with a grade of “C” or better

Limitation: Official admission to the nursing program

Corequisite: N 173 Lecture

Recommended Preparation: HSC 228 and N 245

Focuses on the integration and application of the nursing process in providing nursing care for neonates, infants, children and adolescents and their families/significant others. Emphasis is on a family centered approach to nursing care, communication, health education, health promotion, illness prevention, and adaptation. Principles of nutrition, medication/fluid administration, physiology, growth and development, comforting/pain management, advocacy, and concepts of diversity/culturally competent care for US cultural and ethnic groups are integrated. NR

Course may not be repeated.

Students may not exceed four enrollments in courses related in content and may be permitted fewer than four if each course results in a passing grade on the first attempt and the courses in a category are not repeatable.

Limitation on enrollment: special conditions apply for entry into a course.
Enrollment Limitations for Active Participatory Courses That Are Related in Content

In accordance with Title 5 § 55040(c) students are limited to a maximum of four enrollments in a given group of active participatory courses, as defined in section 55000, in the areas of 1) physical education, 2) visual arts or 3) performing arts when such courses are determined to be related in content.

All enrollments in courses identified as related in content in the tables below count toward the maximum limitation of four enrollments per category. The limitation of four enrollments in a category applies even if a student receives a substandard grade or “W” during one or more of the enrollments in a designated course or petitions for repetition due to extenuating circumstances as provided in Title 5 § 55045. The limitation applies even if one or all of the courses in a category is designated as repeatable. The limitation applies districtwide, so if a student takes a comparable course at Irvine Valley College it will count against his or her four enrollments in a given category. Finally, the four enrollment limitation in a category is enforced across all previous enrollments.

For example, the Ballet category in the Dance table is comprised of five courses related in content: Introduction to Ballet, Ballet Dancing Level I, Intermediate Ballet, Pointe Ballet, and Advanced Ballet. Under the current guidelines students are limited to four total aggregate enrollments in these five courses. Examples of ways a student might utilize these four total aggregate enrollments permissible in the Ballet category include: 1) a student may enroll in four courses out of the five courses in the Ballet category one time each; 2) the student could enroll in Intermediate Ballet once, Pointe Ballet once, and Advanced Ballet twice if they possess the necessary skill level to begin beyond the introductory stage; or 3) because Advanced Ballet is repeatable three times a student could potentially use all four enrollment allocations for just that course. Regardless of whether the student uses all four enrollments in one course, one enrollment in each of four courses, or four enrollments in some combination of courses, he or she may not exceed a maximum of four enrollments in courses within the Ballet category.

The organization of courses related in content into the categories identified in the tables below was approved by Saddleback College’s Curriculum Committee following consultation with the respective department chairs.

### ART

<table>
<thead>
<tr>
<th>Category</th>
<th>Courses</th>
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<tbody>
<tr>
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<tr>
<td>Ceramics – Wheel</td>
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<td>Drawing</td>
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<td>Drawing from the Live Model</td>
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<tr>
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<tr>
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<tr>
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<td>ART 50, ART 51, ART 52, ART 250</td>
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<td>Painting from the Live Model</td>
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<td>Watercolor</td>
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### DANCE

<table>
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<td>KNES 1, KNES 3, KNES 7, KNES 8, KNES 50, KNES 16 (formerly KNES 116), DANC 77 (formerly DANC 177)</td>
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<tr>
<td>Ballet</td>
<td>DANC 51, DANC 52, DANC 53, DANC 67, DANC 71 (formerly DANC 171)</td>
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<tr>
<td>Dance Rehearsal &amp; Performance</td>
<td>DANC 9, DANC 10, DANC 11, DANC 12 (formerly DANC 112), DANC 14 (formerly DANC 114)</td>
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<td>DANC 81</td>
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<td>Jazz Dance</td>
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<td>DANC 58</td>
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<td>DANC 59</td>
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<td>DANC 73 (formerly DANC 173)</td>
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<td>Latin Dance</td>
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<td>DANC 70 (formerly DANC 170)</td>
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<td>Modern Dance</td>
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<td>DANC 56</td>
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<td>DANC 72 (formerly DANC 172)</td>
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<td>Pilates/Conditioning</td>
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<td>DANC 63</td>
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<td>TA 63 (no longer offered effective 2012)</td>
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<td>KNES/DANC 65 (formerly KNES/DANC 138)</td>
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<td>Repertory</td>
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<td>DANC 75 (formerly DANC 175)</td>
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<td>Yoga</td>
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<td>KNES 39 (formerly KNES 139)</td>
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<td>KNES 40</td>
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<td>DANC 28 (formerly DANC 128)</td>
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### KINESIOLOGY

<table>
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<td>Courses</td>
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<tr>
<td>Aerobics</td>
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<td>DANC 77 (formerly DANC 177)</td>
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<td>Aikido</td>
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<td>KNES 95 (formerly KNES 195)</td>
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<tr>
<td>Athletic Training</td>
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<td>KNES 59 (formerly KNES 159)</td>
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<tr>
<td>Baseball</td>
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<tr>
<td>Bowling</td>
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<tr>
<td>Cycling/Spinning</td>
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<td>Fitness Training</td>
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<td>KNES 10 (formerly KNES 110)</td>
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<td>Martial Arts</td>
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<td>KNES 97 (formerly KNES 197)</td>
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<td>Pep Squad</td>
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<td>KNES 58 (formerly KNES 158)</td>
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<td>Pilates/Conditioning</td>
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<td>DANC 63 (no longer offered effective 2012)</td>
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<td>KNES/DANC 65 (formerly KNES/DANC 138)</td>
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<tr>
<th>Category</th>
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<td>Volleyball</td>
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<td>Yoga</td>
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### MUSIC (continued)

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<tr>
<th>Category</th>
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<tr>
<td>Choral/Orchestral Ensembles</td>
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<tr>
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<td>MUS 39 (formerly MUS 122), MUS 182, MUS 184, MUS 187</td>
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<tr>
<td>Harpsichord</td>
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<td>Jazz</td>
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<tr>
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<tr>
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<tr>
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<tr>
<td>Music Production</td>
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<td>CTVR 118</td>
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<td>(formerly CA 118; no longer offered effective Fall 2014)</td>
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<tr>
<td>Organ</td>
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### THEATRE ARTS (continued)

<table>
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<tr>
<th>Category</th>
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<tr>
<td>Advanced Acting Techniques</td>
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<td>Audition and Interview</td>
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<td>Techniques</td>
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<td>Musical Theatre Study</td>
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<td>Rehearsal and Performance</td>
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<td>Theatre Interpretation</td>
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Accounting

ACCT 1A
FINANCIAL ACCOUNTING
4 Units; 4 hours lecture; 1 hour lab
Transfers: CSU, UC
The study of accounting as an information system, examining why it is important, and how it is used by investors and creditors to make decisions. Includes 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. Asset, liability, and equity valuation, revenue and expense recognition, cash flow, internal controls and ethics are covered. NR

ACCT 1B
MANAGERIAL ACCOUNTING
4 Units; 4 hours lecture; 1 hour lab
Transfers: CSU, UC
Prerequisite: ACCT 1A
The study of the use and reporting of accounting data for managerial planning, cost control, and decision making purposes. Includes broad coverage of concepts, classifications, and behaviors of costs. Topics include cost systems, the analysis and use of cost information, cost-volume-profit analysis, contribution margin, profit planning, standard costs, relevant costs and capital budgeting. NR

ACCT 120
INTRODUCTION TO FINANCIAL PLANNING
3 Units; 3 hours lecture
Transfers: CSU
Major topics include money and credit management, comprehensive insurance coverage, and analyzing and developing management tools and strategies for personal investing. Covers investing in common and preferred stock, government and corporate bonds, mutual funds, real estate, and other financial securities. Lifelong financial planning, pension, retirement, and estate planning issues are addressed. Covers the structure and operation of financial markets as well as financial and investment information gathering. The effects of achieving/not achieving financial security on psychological and physiological health are examined. NR

ACCT 202A
INTERMEDIATE ACCOUNTING I
3 Units; 3 hours lecture
Prerequisite: ACCT 1A
Recommended Preparation: ACCT 1B
Review of fundamental accounting processes; in-depth studies of working capital involving cash and temporary investments, receivables, inventory evaluation procedures and current liabilities; stock investments. NR

ACCT 202B
INTERMEDIATE ACCOUNTING II
3 Units; 3 hours lecture
Prerequisite: ACCT 1A
Recommended Preparation: ACCT 202A
Continued in-depth studies of noncurrent assets and liabilities including investments in bonds; plant and equipment acquisition; use and retirement problems; paid-in capital and retained earnings; analytical processes relating to statement analysis, comparative data, ratios, and measurements; funds-flow and cost-flow reporting. NR

ACCT 203
COST ACCOUNTING
3 Units; 3 hours lecture
Prerequisite: ACCT 1B
Survey of cost accounting; job-order, process, and standard cost concepts; emphasis on costing methods for materials, labor, and factory overhead; preparation and analysis of financial statements rendered from cost data. NR

ACCT 210
ACCOUNTING ETHICS
4 Units; 4 hours lecture
Prerequisite: ACCT 1B
Designed to expose students to a comprehensive coverage of ethical and professional issues encountered by accounting professionals. Prepares students to meet part of the Ethics requirement for becoming a Certified Public Accountant in the State of California. Primarily focuses on ethics pertaining to the Accounting profession. Study of the ethical framework includes the American Institute of Certified Public Accountants (AICPA) Code of Professional Ethics, Audit Responsibilities and Accounting Fraud, Legal and Regulatory Obligations, Earnings Quality, Corporate Governance, and International Financial Reporting. NR

ACCT 214
BUSINESS ANALYSIS AND CALCULATIONS
3 Units; 3 hours lecture
Reviews mathematics used to solve typical business problems including simple interest, compound interest, installment sales, trade and cash discounts, markup percents, pricing, discounting notes and drafts, depreciation, taxes, insurance, statistics, stocks and bonds, and distribution of ownership and profits. NR

ACCT 215
GENERAL ACCOUNTING
3 Units; 3 hours lecture
Basic theory and principles of elementary accounting applicable to a single-proprietorship business. Practical application of accounting theory to the accounting cycles of service and merchandising business enterprises: bookkeeping practice; debit and credit practice; books of original entry; ledgers, working papers, adjusting and closing entries; income statement, balance sheet, and statement of owners equity, cash, payroll, special journals, merchandising firms. Recommended for students needing a bookkeeping foundation before enrolling in ACCT 1A, and for retailing, sales and merchandising, and office administration majors. NR

ACCT 216
INDIVIDUAL INCOME TAX
4 Units; 4 hours lecture
Recommended Preparation: ACCT 1A
Provides an introduction to Federal and California state income tax rules and regulations. Practical applications of the Internal Revenue Code and Franchise Tax Board rules and regulations pertaining to the taxation of individuals are presented. NR

ACCT 217
PARTNERSHIP AND CORPORATE TAXATION
3 Units; 3 hours lecture
Recommended Preparation: ACCT 1A and 216
Designed to provide an introduction to Federal and California state corporate and partnership income tax rules and regulations. Practical applications of the Internal Revenue Code and Franchise Tax Board rules and regulations pertaining to the taxation of partnerships and corporations are presented. NR
ACCT 221
ACCOUNTING INFORMATION SYSTEMS
3 Units; 3 hours lecture
Prerequisite: ACCT 1B
Familiarization to accounting information systems development process. Analysis, design, development, and implementation of accounting information systems. Automation of accounting information systems studied through the use and application of computers. NR

ACCT 235
ENTREPRENEURIAL ACCOUNTING
3 Units; 3 hours lecture
Basic accounting course for the entrepreneur that provides the participant with financial statement analysis, tax and implications of decision-making. Assist in determining financing needs and options to facilitate continued operations as well as future growth. Assist in determining the appropriate computer hardware and software system necessary for the accounting needs of the business. The student will learn the necessary skills to use accounting software to set up accounts and manage the financial aspect of the business. NR

ACCT 275
AUDITING
3 Units; 3 hours lecture
Prerequisite: ACCT 1B
Recommended Preparation: ACCT 202A
Examines the use of financial statement audits and details the audit process. Topics include professional responsibilities of auditors, audit design, sampling approaches, substantive testing, and testing controls. NR

ANTH 1L
BIOLOGICAL ANTHROPOLOGY LABORATORY
1 Unit; 3 hours lab
Transfers: CSU, UC
Prerequisite: Must be taken concurrently with ANTH 1 or within one year after completing ANTH 1
An introductory course in micro-macro evolutionary theory, primatology, and the paleoanthropological fossil record. Primary focus is on human variation and evolution. This course provides students with a detailed study of material discussed in the biological anthropology lecture class that include lab practicum on human skeletal anatomy, comparative anatomy of hominin species and extinct and extant species of primates. NR

ANTH 2
CULTURAL ANTHROPOLOGY
3 Units; 3 hours lecture
Transfers: CSU, UC
An introduction to the comparative study of culture and society. Includes an examination of human universals and diversity in cultures around the world. Topics include social structure, religion, ritual, family life, economics, and political organization. NR

ANTH 3
CULTURE AND LANGUAGE
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: ANTH 2
An examination of the complex relationship between culture and language. Topics include the structure of language, language acquisition, the origin of language, bilingualism, non-verbal communication, language change, and linguistic diversity. NR

ANTH 4
NATIVE AMERICAN INDIAN CULTURES
3 Units; 3 hours lecture
Transfers: CSU, UC
An introduction to and broad survey of Native American cultures within the borders of the United States. Examines the histories and cultures of Native Americans from the pre-conquest period to the present. Topics include religious beliefs, socio-political organization, representations of Indians, and Indian-white relations. NR

ANTH 5
ANTHROPOLOGY OF LATIN AMERICA: CULTURE, IDENTITY, AND POWER
3 Units; 3 hours lecture
Transfers: CSU, UC
An overview of key issues in the anthropology of Latin America, with an emphasis on cultural practices, identity formation, and the exercise of power. Major themes include the intersection of race, class and gender; violence and terror; forms of transgression; and resistance and change. NR

ANTH 6
GLOBAL ISSUES IN ANTHROPOLOGICAL PERSPECTIVE
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: ANTH 2
Explores anthropological perspectives on issues of importance in an increasingly global society. Topics include culture contact, culture change, ethnic conflict, religion and religious diversity, development and globalization. NR

ANTH 7
INDIANS OF SOUTHERN CALIFORNIA
3 Units; 3 hours lecture
Transfers: CSU, UC
A comprehensive study of the Indians of Southern California taking into account archaeological evidence, historical aspects, and an examination of their present day status. NR

ANTH 8
WORLD PREHISTORY
3 Units; 3 hours lecture
Transfers: CSU, UC
An introduction to archaeology and the prehistory of humankind from the earliest traces of hominid evolution to emergence of state-level societies. Explores prehistoric human behavior and its variability over the past five million years emphasizing major prehistoric events such as the origin of modern humans, the Upper Paleolithic, the advent of agriculture, and the rise of social complexity. NR
ANTH 9
INTRODUCTION TO
ARCHAEOLOGY
3 Units; 3 hours lecture
Transfers: CSU, UC
An introduction to the study of
cultural, non-laboratory methods. Students will
and discussion from the basic four
be introduced to the techniques of
excavation. The recording of artifacts,
and the analysis and interpretation of
sites and excavated materials. Practical
field exercises, laboratory analysis, and
mandatory field trips are included. NR

ANTH 16
ARCHAEOLOGICAL FIELD
METHODS
1 Unit; 0.5 hours lecture; 1.5
hours lab
Transfers: CSU, UC
Recommended Preparation:
ANTH 9
An introduction to archaeological field
and laboratory methods. Students will
be introduced to the techniques of
evacuation, the recording of artifacts,
and the analysis and interpretation of
sites and excavated materials. Practical
field exercises, laboratory analysis, and
mandatory field trips are included. NR

ANTH 17
THE BIOLOGICAL EVOLUTION
OF HUMAN NATURE
3 Units; 3 hours lecture
Transfers: CSU, UC
An analysis of what it is to be human
based on the works of Lamarck,
Darwin, Spencer and others core to
the development of natural selection
and biological determinism. Works
through the concepts of the 20th
century, including social Darwinism
through the current trends in the
evolutionary study of human behavior.
Particular emphasis will be placed on
the evolution of cooperation and the
interaction of biological adaptation
and culture in human biological and
socio-cultural diversity. NR

ANTH 19
FORENSIC ANTHROPOLOGY
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation:
ANTH 1
An introduction to the methods,
techniques, and procedures of
forensic anthropology. Topics include
human osteology, biological variation,
taphonomy, and personal
identification in the study of human
remains for medico-legal purposes
(formerly ANTH 100). NR

ANTH 21
WOMEN, GENDER, AND
CULTURE: CROSS-CULTURAL
PERSPECTIVES
3 Units; 3 hours lecture
Transfers: CSU, UC
An anthropological approach to the
cross-cultural study of women and
gender. Focus is thematic and
comparative, and will include topics
such as gender identity, sexuality, the
sexual division of labor, the politics of
reproduction, childcare, and
 globalization. NR

ANTH 10
CELTIC CULTURES
3 Units; 3 hours lecture
Transfers: CSU, UC
An overview of Celtic cultures
throughout the world including
archaeological evidence, social and
economic structures, belief systems,
language, and arts. NR

ANTH 13
MAGIC, WITCHCRAFT, AND
RELIGION
3 Units; 3 hours lecture
Transfers: CSU, UC
An introduction to the anthropo-
 logical study of religious beliefs and
practices. The course examines several
key topics in the study of religion such
as mythology, symbolism, ritual, heal-
ing practices, altered states of con-
sciousness, magic, and witchcraft, as
well as the impact of religion on
society, politics, and economics. NR

ANTH 14
INTRODUCTION TO VISUAL
CULTURE
3 Units; 3 hours lecture
Transfers: CSU, UC
An introduction to the anthropo-
logical use and critique of film,
photography, and other visual
mediums in the portrayal of culture(s).
Questions of the role of power in
representational practices will be
addressed. NR

ANTH 15
THE WORLD OF PRIMATES
3 Units; 3 hours lecture
Transfers: CSU, UC
An introduction to primates and
primatology, including species
diversity, ecology, primate behavior,
and conservation. Topics include
communication, hierarchies, male-
female interaction, protocultural
behavior, social learning, tool use,
play, cognition, & self-awareness. NR

Arabic

ARAB 1
ELEMENTARY ARABIC
5 Units; 5 hours lecture
Transfers: CSU, UC
Corequisite: ARAB 901
Recommended Preparation:
College-level reading ability

Arab

ARAB 3
INTERMEDIATE ARABIC
5 Units; 5 hours lecture
Transfers: CSU, UC
Corequisite: ARAB 903
Intermediate level course focuses on
fluency in reading, writing, speaking,
and listening. Continues the study of
Arabic culture. NR

ARAB 4
INTERMEDIATE ARABIC
5 Units; 5 hours lecture
Transfers: CSU, UC
Prerequisite: ARAB 3 or four
years of high school Arabic
Corequisite: ARAB 904
Emphasizes fluency in speaking,
reading, writing, and comprehension
of Arabic. Includes selected readings
and discussions from the basic four
genres in Arabic and Arabic-American
literature, culture, and customs. NR
ARAB 21
INTRODUCTION TO ARABIC CULTURE
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation:
College-level reading ability
Traces the development of the culture of Arabic-speaking nations including
history, philosophy, political ideas, literature, music, art, science,
geography, and customs and its
influence on America and the world. Conducted in English. No prior study
of the Arabic language or culture is required. NR

ARAB 901
ARABIC LANGUAGE LAB
0.25 Unit; 1 hour learning center
Corequisite: ARAB 1
Requires concurrent enrollment in
Arabic 1. Enhances and provides
practice in skills learned in Arabic 1
course. NR

ARAB 902
ARABIC LANGUAGE LAB
0.25 Unit; 1 hour learning center
Corequisite: ARAB 2
Requires concurrent enrollment in
Arabic 2. Enhances and provides
practice in skills learned in Arabic 2
course. NR

ARAB 903
ARABIC LANGUAGE LAB
0.25 Unit; 1 hour learning center
Corequisite: ARAB 3
Requires concurrent enrollment in
Arabic 3. Enhances and provides
practice in skills learned in Arabic 3
course. NR

ARAB 904
ARABIC LANGUAGE LAB
0.25 Unit; 1 hour learning center
Corequisite: ARAB 4
Requires concurrent enrollment in
Arabic 4. Enhances and provides
practice in skills learned in Arabic 4
course. NR

Architecture

ARCH 10
INTRODUCTION TO ARCHITECTURE
2 Units; 2 hours lecture
Transfers: CSU, UC
Recommended Preparation: ARCH 41A or DR 100
Architectural practice in skills learned in ARCH 4
Enhances and provides
practice in skills learned in ARCH 3
ARCH 12
HISTORY OF ARCHITECTURE
3 Units; 3 hours lecture
Transfers: CSU, UC
The study of the architecture and
environmental achievements of man
from the earliest times to the present.
Presenting the important buildings,
cities, sites, and civilizations of
mankind. NR

ARCH 34
BASIC ARCHITECTURAL DESIGN I
3 Units; 1 hour lecture; 6 hours lab
Transfers: CSU, UC
Recommended Preparation: ARCH 124A, which may be
taken concurrently
Fundamentals of design function;
form determinants; the nature,
elements, and process of creative
environmental design using 2D and
3D studies of space, form, color, and
structure. NR

ARCH 42
DESCRIPTIVE DRAWING AND PERSPECTIVE
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU, UC
Recommended Preparation: ARCH 124A
Construct 3D drawings, including
perspectives. Construct basic shadows
and shade. NR

ARCH 44
ARCHITECTURAL PRESENTATION AND RENDERING
2 Units; 6 hours lab
Transfers: CSU, UC
Recommended Preparation: ARCH 42 and 124A
Delineate 2D and 3D architectural
drawings for presentation. Render
three drawings with color, shade,
shadows, people, and trees. NR

ARCH 50
INTRODUCTION TO COMPUTER-AIDED DRAFTING
3 Units; 2 hours lecture; 4 hours lab
Transfers: CSU, UC
Recommended Preparation: ARCH 124A or DR 100
Introductory course covering the
operation and application of
computer-aided drafting (CAD)
systems used to create, modify, store,
and plot technical drawings. Also
listed as DR 50. Credit given in either
area, not both. NR

ARCH 51
COMPUTER-AIDED DRAFTING
3 Units; 2 hours lecture; 4 hours lab
Transfers: CSU, UC
Recommended Preparation: ARCH or DR 50
An intermediate to advanced level
course in the operation and
application of computer aided
drafting systems, used to create, edit,
save, and plot technical 2D and 3D
drawings. Also listed as DR 51. Credit
given in either area, not both. NR

ARCH 110
STATICS AND STRENGTH OF MATERIALS FOR
ARCHITECTURE
3 Units; 3 hours lecture
Transfers: CSU
A study of structural engineering and
the strength of building materials.
Investigates the definition of structure
and natural forces that act upon
buildings and structural components.
An in-depth analysis of common
structural systems and building types
as the basis for study of individual
structural components. Beams,
columns, foundations, load tracing,
cross-sectional capabilities of
individual members, bending and
shear, structural connections, hybrid
structures and lateral design are
investigated. Sustainable design and
green building methods as well as
future trends in building materials are
linked to structural design theory. NR

ARCH 122
ARCHITECTURAL PRACTICE
2 Units; 2 hours lecture
Transfers: CSU
An introductory course covering the
profession of architecture and the
construction industry including
professional relations, office
procedures, and legal aspects. NR
ARCH 124A  
ARCHITECTURAL DRAWING I  
4 Units; 3 hours lecture; 3 hours lab  
Transfers: CSU  
Principles and techniques of architectural drawing designed primarily for those who plan to enter the field of architecture or a related field such as construction, landscape architecture, city and regional planning, and/or interior design. NR

ARCH 124B  
ARCHITECTURAL DRAWING II  
4 Units; 3 hours lecture; 3 hours lab  
Transfers: CSU  
Prerequisite: ARCH 124A  
Draft and organize a set of working drawings for a single-family dwelling including building code requirements, materials, and principles of wood-frame construction. Computer-aided drafting methods will be introduced and used. NR

ARCH 124C  
ARCHITECTURAL DRAWING III  
4 Units; 3 hours lecture; 3 hours lab  
Transfers: CSU  
Prerequisite: ARCH 124B  
Draft and organize an advanced set of working drawings for a steel and concrete commercial building. Computer-aided drafting methods will be used. NR

ARCH 126  
MATERIALS AND METHODS OF CONSTRUCTION  
3 Units; 3 hours lecture  
Transfers: CSU  
Studies various building materials, their use and application in the structural makeup of buildings. NR

ARCH 132  
RESIDENTIAL PLANNING, PRINCIPLES AND DESIGN  
3 Units; 1.5 hours lecture; 4.5 hours lab  
Transfers: CSU  
Recommended Preparation: ARCH 124A  
Design a single-family dwelling. Complete a design process that considers proper site relationships, plan functions, form, structure, and materials. NR

ARCH 136  
BASIC ARCHITECTURAL DESIGN II  
3 Units; 1 hour lecture; 6 hours lab  
Transfers: CSU  
Recommended Preparation: ARCH 34  
Learn to design quality form and space for living and working. Through the design process consider site, function, form, structure, color, and materials, as well as social, psychological, and ergonomic factors. NR

ARCH 152  
ADVANCED COMPUTER-AIDED DESIGN  
3 Units; 2 hours lecture; 4 hours lab  
Transfers: CSU  
Recommended Preparation: ARCHDR 50 or ARCHDR 51  
Advanced computer-aided design and drafting with emphasis on advanced 3D CAD knowledge and skills in the completion of technical drawings that support 3D modeling. Also listed as DR 152. Credit given in either area, not both. NR

ARCH 161  
BLUEPRINT PLANS AND SPECIFICATION READING  
4 Units; 3 hours lecture; 3 hours lab  
Transfers: CSU  
Blueprint and specification reading as applied to California State codes. Includes residential, commercial, and hospital construction. NR

ARCH 162  
CONSTRUCTION ESTIMATING  
3 Units; 2 hours lecture; 4 hours lab  
Transfers: CSU  
Includes bid preparations, material quantity and analysis, labor and material pricing and quantities summations, subcontract summations, subcontract bids, bid corrections, bidding practices, and final-bid form compilation and submittal. NR

ARCH 163  
INTERNATIONAL BUILDING CODE INSPECTION  
4 Units; 4 hours lecture  
Transfers: CSU  
Pursue minimum preparation and upgrading for inspectors seeking certification, construction managers, and architect’s field observers. Examine federal, state, or local codes affecting construction, grading, and performance standards. Evaluate code compliance on-site with emphasis on interpretations. NR

ARCH 164  
COMBINATION RESIDENTIAL DWELLING INSPECTION  
3 Units; 3 hours lecture  
Transfers: CSU  
Recommended Preparation: ARCH 163  
Prepares students for the International Conference of Building Officials (ICBO) examination to become certified building inspectors. Particular emphasis given to those sections in the International Building Codes which deal with inspection and enforcement of the Plumbing, Mechanical and Electrical Codes as they relate to residential and framing. Qualifies as CE for state mandated AB 717. NR

ARCH 165  
ELECTRICAL CODE INSPECTION  
3 Units; 3 hours lecture  
Transfers: CSU  
A comprehensive study and review of the National Electrical Code and local authorities. Also covers regulations for inspection of residential and commercial units. NR

ARCH 200  
DESIGN IN ARIZONA, RIVERSIDE AND PALM SPRINGS  
1.5 Units; 1 hour lecture; 1.5 hours lab  
Study how architecture and urban design confront context in Arizona, Riverside, and Palm Springs—Taliesin, Biltmore, ASU, MOMA, Phoenix Library, Arcosanti, Sedona, Arizona straw-bale house and Mission Inn in Riverside, CA. NR

ARCH 211  
CONCRETE INSPECTION  
3 Units; 3 hours lecture  
Transfers: CSU  
Examines technical knowledge needed by inspectors, code enforcement personnel, contractors and architects. Covers detailed concrete design, placement, mixing and testing. NR

ARCH 212  
PLUMBING CODES: DRAINS, WASTE, VENTS, WATER, AND GAS  
3 Units; 3 hours lecture  
Examines responsibilities of the plumbing inspector. Review rules and regulations defining owner, builder and architect’s responsibilities. Study mechanics of installation and inspection of water, waste, and venting systems. NR
ARCH 213
MECHANICAL CODE: HEATING, AC, REFRIGERATION, AND DUCTWORK
3 Units; 3 hours lecture
Examine the mechanical code as it affects responsibilities of inspector, contractor, worker, architect and owner. Examine design, sizing, installation and inspection of heating, ventilation and air conditioning (HVAC) systems. NR

ARCH 218
FOUNDATION STUDIO IN ARCHITECTURE
4 Units; 3 hours lecture; 3 hours lab
A design studio based on the Bauhaus Foundation Course that explores the many aspects of visual and spatial design leading to studied solutions in architecture. Concepts include black and white forms and negative space, communication through shapes, textures, color and materials, graphic design and typeface fonts, anthropometrics and designing for human scale. Studio will focus on designing and model building architecture for a specific building type and site, including climatic adaptation, native and locally produced materials, concepts of green design and LEED certification, creating human scaled spaces, and designing functional architectural solutions. NR

ARCH 219
RESIDENTIAL AND COMMERCIAL SPACE PLANNING
4 Units; 3 hours lecture; 3 hours lab
Recommended Preparation: ARCH 124A
Focuses on the theory, layout, building codes and creativity needed in designing excellent floor plans, with a special emphasis on the scale of the building and the context of the site. Anthropometrics and ergonometic studies are the starting point to human scale design. Scale and arrangement of furnishings, circulation, storage, room proportions, function and users are all brought into the equation of good design. Projects will include typical single family residential design, residential estate design, multifamily residential design, commercial design, institutional design, and parking design with focus on sustainable architectural design practices. NR

ARCH 220
REVIT AND BUILDING INFORMATION MANAGEMENT (BIM)
4 Units; 3 hours lecture; 3 hours lab
Recommended Preparation: ARCH 51 or DR 51
Introduction of 3-dimensional building modeling using Autodesk Revit to provide visualization and method of construction information for architectural design. Building Information Modeling (BIM) will be used to provide detailed construction information and coordination of architecture and engineering in simple and complex building systems. Rendering and presentation techniques using Revit are also introduced. Student needs solid knowledge of computer drafting applications, file management and building construction techniques including building materials and methods of construction. NR

ARCH 221
ADVANCED REVIT/BUILDING INFORMATION MANAGEMENT II
4 Units; 3 hours lecture; 3 hours lab
Recommended Preparation: ARCH 220
Advanced study of 3D building modeling using Autodesk Revit to provide visualization and method of construction information for architectural design. Building Information Modeling (BIM) will be used to provide detailed construction information and coordination of architecture and engineering in simple and complex building systems. Rendering and presentation techniques using Revit are also introduced. Student needs solid knowledge of computer drafting applications, file management and building construction techniques including building materials and methods of construction. NR

ARCH 231
LEED AND SUSTAINABLE ARCHITECTURE
3 Units; 3 hours lecture
Examines the emerging movement for sustainable practices in architecture and construction. The model of the US Green Building Council for LEED (Leadership in Energy and Environmental Design) defines this course. Certification of buildings is examined including: Sustainable Sites, Water Efficiency, Energy and Atmosphere, Materials and Resources, Indoor Environmental Quality, and Innovation in Design. For residential construction Locations and Linkages, as well as Awareness and Education are discussed. Regional Priorities focus on water and air resources for Southern California. The LEED professional accreditations: LEED Green Associate and the 5 LEED A.P. designations are also investigated. Identify approaches to sustainable architecture. NR

ARCH 260
ARCHITECTURE IN NORTHERN CALIFORNIA
1 Unit; 1 hour lecture; 1 hour lab
Visit architecture in San Francisco, S. Barbara, San Luis Obispo—SF Civic Center, Union Square, Herman Plaza, Haight-Ashbury, Golden Gate Park, Marin Civic Center, Napa valley, SB and SLO downtowns, Hearst Castle. NR

ARCH 261
ORANGE AND SAN DIEGO ARCHITECTURE
1 Unit; 1 hour lecture; 1 hour lab
Study architecture which urbanize and texture the region—from the Salk Institute and UCSD Library to the Crystal Cathedral, Capistrano Library and San Diego’s livework housing. NR

ARCH 262
LOS ANGELES ARCHITECTURE
1 Unit; 1 hour lecture; 1 hour lab
Tour LA architecture—including Gamble House, Bradbury Building, Biltmore Hotel, Wright/Eames/Gehry houses, Eric Moss/Morphosis projects, and Getty Museum. NR
ARCH 270
FIELD STUDY: EUROPEAN ARCHITECTURAL HISTORY
3 Units; 3 hours lecture
Field study of European architectural history and the society that created the built environment of cultures. Countries may include Italy, France, England, Ireland, Scotland, Germany, Switzerland, Denmark and the Netherlands. Includes social, cultural, religious, economic, geographic and climatic forces that shape the built environment. Examines how societies have developed a sustainable culture using local resources. Sites visits include iconic architecture, as well as vernacular construction. Discussion and in-depth study of areas of travel and architectural experiences will be conducted in class after the trip. NR

ARCH 271
FIELD STUDY: EUROPEAN SKETCH, DRAW, PHOTO
3 Units; 3 hours lecture
Field study of the European Region using the graphic arts of architecture—sketching, drawing and photography—while traveling and exploring architecture and the built environment. Countries may include Italy, Spain, France, England, Ireland, Scotland, Germany, Denmark, Switzerland, and the Netherlands. Students will graphically capture the culture and the architectural record of the region’s history. Upon return to the classroom, an in-depth study of graphic techniques will be presented, discussed and applied. NR

ARCH 272
FIELD STUDY: EUROPEAN DESIGN STUDIO
4 Units; 3 hours lecture; 3 hours lab
Field study in the European Region using the built environment as the basis for a design studio in architecture—designing residential, commercial, and civic spaces—while traveling and exploring the region, which may include Italy, Spain, France, England, Ireland, Scotland, Germany, Denmark, Switzerland, and the Netherlands. Allows students to capture the culture and the architectural style of the region in their designs. Upon return to the classroom, an in-depth study of architectural design in a studio setting will be presented, discussed and applied. NR

ART
ART 4
FUNDAMENTALS OF ART
3 Units; 3 hours lecture
Transfers: CSU, UC
Emphasizes fundamental art ideas, modes, devices, problems of organization and structure terminology, media, and the relationship of art to society. NR

ART 9
CERAMICS FUNDAMENTALS
3 Units; 1.5 hours lecture; 4.5 hours lab
Transfers: CSU, UC
Recommended Preparation: ART 80
A basic survey course covering both handbuilding and wheel throwing, with an emphasis on form and design. A general survey of ceramic history is presented in context with clays, clay bodies, glazes, and firing. NR

ART 10
CERAMICS – HANDBUILDING I
3 Units; 1.5 hours lecture; 4.5 hours lab
Transfers: CSU, UC
Recommended Preparation: ART 9
An introduction to ceramic handbuilding techniques with emphasis on craftsmanship and good design. Students are limited to a combined total of four enrollments in ART 10, 216, and 217. NR

ART 11
CERAMICS – WHEEL I
3 Units; 1.5 hours lecture; 4.5 hours lab
Transfers: CSU, UC
Recommended Preparation: ART 9
An introduction to beginning wheel techniques with emphasis on traditional shapes and forms. Students are limited to a combined total of four enrollments in ART 11, 12, and 13. NR

ART 12
CERAMICS – WHEEL II
3 Units; 1.5 hours lecture; 4.5 hours lab
Transfers: CSU, UC
Prerequisite: ART 11
A continuation of basic throwing techniques with emphasis on specific shapes and forms utilitarian and decorative. Students are limited to a combined total of four enrollments in ART 11, 12, and 13. NR

ART 13
CERAMICS – WHEEL III
3 Units; 1.5 hours lecture; 4.5 hours lab
Transfers: CSU, UC
Prerequisite: ART 12
A continuation of throwing skills emphasizing contemporary decorative and design techniques. Emphasis is placed on problems related to student’s individual needs. Students are limited to a combined total of four enrollments in ART 11, 12, and 13. NR

ART 40
2-D FOUNDATIONS
3 Units; 1.5 hours lecture; 4.5 hours lab
Transfers: CSU, UC
Introduction to the concepts, applications, and historical references related to two-dimensional art and composition, including the study of the basic principles and elements of line, shape, texture, value, color and spatial illusion. Development of a visual vocabulary for creative expression through lecture presentations, studio projects, problem solving, and written assignments. Students are limited to a combined total of four enrollments in ART 40, 41, and 42. NR

ART 41
THREE-DIMENSIONAL DESIGN
3 Units; 1.5 hours lecture; 4.5 hours lab
Transfers: CSU, UC
Recommended Preparation: ART 40
Introduction to the concepts, applications, and historical references related to three-dimensional design and spatial composition, including the study of the elements and organizing principles of design as they apply to three-dimensional space and form. Development of a visual vocabulary for creative expression through lecture presentations and use of appropriate materials for non-representational three-dimensional studio projects. Students are limited to a combined total of four enrollments in ART 40, 41, and 42. NR
ART 50  PAINTING – I
3 Units; 1.5 hours lecture; 4.5 hours lab
Transfers: CSU, UC
Recommended Preparation: ART 40, 80
Introduction to the basic elements, principles and practices of painting. Focus on exploration of painting materials, perceptual skills, paint mixing, color theory, and methods of applying paint. Creative responses to representational subject matter will be emphasized. Students are limited to a combined total of four enrollments in ART 50, 51, 52, and 250. NR

ART 51  PAINTING – II
3 Units; 1.5 hours lecture; 4.5 hours lab
Transfers: CSU, UC
Prerequisite: ART 50
Designed to draw upon the skills developed in ART 50 to achieve greater levels of mastery over paint surface and composition. Emphasizes representational and non-representational subject matter in a variety of media including acrylic and oil. Students are limited to a combined total of four enrollments in ART 50, 51, 52, and 250. NR

ART 52  PAINTING – III
3 Units; 1.5 hours lecture; 4.5 hours lab
Transfers: CSU, UC
Prerequisite: ART 51
Designed to draw upon the skills developed in ART 51 to achieve greater levels of mastery over paint surface and composition. Explores representational and non-representational subject matter in a variety of media including acrylic and oil. Students are limited to a combined total of four enrollments in ART 50, 51, 52, and 250. NR

ART 53  PAINTING FROM THE LIVE MODEL I
3 Units; 1.5 hours lecture; 4.5 hours lab
Transfers: CSU, UC
Recommended Preparation: ART 40, 80, and 85
Introductory course that emphasizes painting the draped and undraped life model from direct observation. Students will learn to convincingly depict and accurately represent both the male and female figure in action and in repose while studying subtleties of position and attitudes. Fundamental structural drawing concepts essential to good painting, such as the study of human anatomy, proportional sighting, measuring methods, and perspective. Value relationships and color will be emphasized in order to represent the figure in convincing painting with form, volume, and space. Students are limited to a combined total of four enrollments in ART 53 and 54. NR

ART 54  PAINTING FROM THE LIVE MODEL II
3 Units; 1.5 hours lecture; 4.5 hours lab
Transfers: CSU, UC
Prerequisite: ART 53
A continuation of ART 53 which emphasizes painting the draped and undraped male and female figure from direct observation. The primary focus is to develop a more sensitive and creative approach to painting from life. The student will continue to develop the basic skills in representing and interpreting the live model. A variety of media will be explored. Students are limited to a combined total of four enrollments in ART 53 and 54. NR

ART 55  WATERCOLOR I
3 Units; 1.5 hours lecture; 4.5 hours lab
Transfers: CSU, UC
Recommended Preparation: ART 40, 80
An introduction to water-based media with emphasis on transparent watercolor. Students will learn the basic techniques of surface preparation, paper stretching, transparent application, graduated washes, dry brush, and wet-into-wet techniques. A variety of materials, devices, and means for representing the volume, structure, character, and delineation of natural and manmade forms via the watercolor medium will be explored. Students are limited to a combined total of four enrollments in ART 57, 58, 59, and 261. NR

ART 56  WATERCOLOR II
3 Units; 1.5 hours lecture; 4.5 hours lab
Transfers: CSU, UC
Prerequisite: ART 57
Further implementation of painting with transparent watercolor. Explores more advanced problems in color, light, and composition. In addition, this course will offer experience in the mixing of other media with transparent watercolor. Students are limited to a combined total of four enrollments in ART 57, 58, 59, and 261. NR

ART 57  WATERCOLOR III
3 Units; 1.5 hours lecture; 4.5 hours lab
Transfers: CSU, UC
Prerequisite: ART 58
Emphasizes advanced techniques of transparent media, including use of collage and other mixed media. Further implementation of advanced watercolor techniques that explore more advanced problems in color, light, and composition will be explored. Students are limited to a combined total of four enrollments in ART 57, 58, 59, and 261. NR
ART 60
INTAGLIO (ETCHING) AND RELIEF I
3 Units; 1.5 hours lecture; 4.5 hours lab
Transfers: CSU, UC
Prerequisite: ART 60
Recommended Preparation: ART 80
An introductory printmaking course designed to teach students a variety of approaches in Relief and Intaglio areas of printmaking. The basic processes of etching, drypoint, relief printing, and monotypes will be stressed. Both traditional and experimental approaches important to the development of a print will be used through the course of study. Students will be expected to develop a print from concept to the printing of an edition. Students are limited to a combined total of four enrollments in ART 60, 61, 62, and 164. NR

ART 61
INTAGLIO (ETCHING) AND RELIEF II
3 Units; 1.5 hours lecture; 4.5 hours lab
Transfers: CSU, UC
Prerequisite: ART 60
Designed with emphasis on advanced skills in the process of Relief and Intaglio areas of printmaking. Edition printing, advanced technical skills, and continued development of personal imagery and unique style will be stressed. Students are limited to a combined total of four enrollments in ART 60, 61, 62, and 164. NR

ART 62
INTAGLIO (ETCHING) AND RELIEF III
3 Units; 1.5 hours lecture; 4.5 hours lab
Transfers: CSU, UC
Prerequisite: ART 61
Recommended Preparation: ART 80
Designed with an emphasis in advanced skills in the processes of relief and intaglio printing. The course will cover advanced skills in edition printing (color), multi-plate printing, color printing, and continued development of personal imagery and unique style. Students will incorporate intermediate techniques learned in prior courses to develop advanced multicolor, multplate registration, and printing techniques. Students are limited to a combined total of four enrollments in ART 60, 61, 62, and 164. NR

ART 63
INTRODUCTION TO SCREEN PRINTING
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU, UC
Principles, basic methods and techniques of preparing handcut and photographic stencils, printing techniques, simple color separation, and equipment and material handling. Care, use and safety precautions in operating and cleaning the silk screen unit. Also listed as GC 62. Credit given in either area, not both. NR

ART 70
FUNDAMENTALS OF SCULPTURE
3 Units; 1.5 hours lecture; 4.5 hours lab
Transfers: CSU, UC
A survey of basic sculpture processes to include both additive and subtractive sculpture procedures. Lectures and demonstrations involving the classic and contemporary use of sculpture materials such as clay, plaster, stone, and metal will be covered. Students will research, design, and develop representational and abstract sculptural forms. Course emphasis will be placed on the effective use of design, materials and sculptural procedures, as well as the safe and proper use of hand and power tools. NR

ART 71
ADDITIVE SCULPTURE
3 Units; 1.5 hours lecture; 4.5 hours lab
Transfers: CSU, UC
Prerequisite: ART 70
An in-depth investigation of the additive processes in sculpture, including clay and plaster. NR

ART 72
SUBTRACTIVE SCULPTURE
3 Units; 1.5 hours lecture; 4.5 hours lab
Transfers: CSU, UC
Prerequisite: ART 71
An in-depth investigation of the subtractive process in sculpture, including plaster and stone. NR

ART 78
BEGINNING LIFE SCULPTURE
3 Units; 1.5 hours lecture; 4.5 hours lab
Transfers: CSU, UC
Prerequisite: ART 78
Sculpting from a live model using clay with emphasis placed on gesture, composition, scale, proportion as related to representational forms. Students are limited to a combined total of four enrollments in ART 78 and 79. NR

ART 79
ADVANCED LIFE SCULPTURE
3 Units; 1.5 hours lecture; 4.5 hours lab
Transfers: CSU, UC
Prerequisite: ART 78
Students expand their ability to sculpt from the live model to include larger scale and the materials of wood and/or stone. Students are limited to a combined total of four enrollments in ART 78 and 79. NR

ART 80
DRAWING I
3 Units; 1.5 hours lecture; 4.5 hours lab
Transfers: CSU, UC
Prerequisite: ART 80
Emphasizes the development of perceptual and technical skills in drawing. Includes line, shape, proportion, value, and composition in the representation of still life and other subject matter using dry media. Students are limited to a combined total of four enrollments in ART 80, 81, and 82. NR

ART 81
DRAWING II
3 Units; 1.5 hours lecture; 4.5 hours lab
Transfers: CSU, UC
Prerequisite: ART 80
Emphasizes the process of drawing as a form of creative expression. Students will explore approaches to technical and conceptual problems in drawing using a variety of mediums, techniques and methodologies. Through exercises covering historical and contemporary approaches to drawing students will build on fundamental drawing skills to develop a personal approach to content and material. Students are limited to a combined total of four enrollments in ART 80, 81, and 82. NR
ART 85
DRAWING FROM THE LIVE MODEL I
3 Units; 1.5 hours lecture; 4.5 hours lab
Transfers: CSU, UC
Recommended Preparation: ART 80
Emphasizes drawing from the human figure. Designed to develop an understanding of the human anatomy and proportion as well as the ability to draw the figure in various attitudes and movements using dry and fluid media. Students are limited to a combined total of four enrollments in ART 85, 86, and 87. NR

ART 86
DRAWING FROM THE LIVE MODEL II
3 Units; 1.5 hours lecture; 4.5 hours lab
Transfers: CSU, UC
Prerequisite: ART 85
Continued study toward developing an understanding of drawing the human figure with emphasis on surface anatomy, form, structure, proportion, gesture, contour, and volume. Students work from the draped and nude model. Media include graphite, charcoal, Conte Crayon, and pastels on a variety of papers and surfaces. Students work from the draped and nude model. Students are limited to a combined total of four enrollments in ART 85, 86, and 87. NR

ART 87
DRAWING FROM THE LIVE MODEL III
3 Units; 1.5 hours lecture; 4.5 hours lab
Transfers: CSU, UC
Prerequisite: ART 86
Further study on developing and understanding drawing the human figure as the basis of representational and expressionistic drawing. Students will experiment with a variety of wet and dry media. Students work from the draped and nude model. Students are limited to a combined total of four enrollments in ART 85, 86, and 87. NR

ART 89
BEGINNING GRAPHIC DESIGN
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Introduction to fundamentals of design concepts that explore organization of visual elements for graphic communication. Studio work will include traditional and computer-generated assignments in layout and typography. Designed to convey current concepts in the graphic design field. Also listed as GD 140. Credit given in either area, not both. NR

ART 90
GRAPHIC RENDERING
3 Units; 2 hours lecture; 3 hours lab
Experimentation with a variety of wet and dry media. Students work from the draped and nude model. Students will experiment with a variety of wet and dry media. Students work from the draped and nude model. Students are limited to a combined total of four enrollments in ART 85, 86, and 87. NR

ART 91
PACKAGE DESIGN
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Prerequisite: ART 62
Recommended Preparation: ART 80
Designed for advanced printmakers with emphasis on photopolymer plates and digital technology for use in intaglio and relief printmaking. Focus will be on solar plate technology, digital image making and manipulation for output on transparency, and printing/editions of imagery on an etching press. Students are limited to a combined total of four enrollments in ART 60, 61, 62, and 164. NR
ART 175
METAL CASTING
3 Units; 1.5 hours lecture; 4.5 hours lab
Transfers: CSU
Recommended Preparation: ART 70
A specialized course in foundry procedures. Activities will include direct and indirect techniques of developing wax models to be used in the lost wax metal casting process. Students will design unique sculptural forms which will be cast in metal using either plaster investment or ceramic shell molds. Course emphasis will be placed on the safe and proper use of hand and power tools and upon a variety of foundry practices such as: mold making, spruce and gate systems, mold devaxing, metal pouring procedures, metal finishing, and coloring techniques. NR

ART 216
CERAMICS – HANDBUILDING II
3 Units; 1.5 hours lecture; 4.5 hours lab
Prerequisite: ART 10
Emphasizing a continuation of basic handbuilding techniques. The focus is on developing the individual’s skills in design, fabrication, and finishing. Form and function are stressed. Students are limited to a combined total of four enrollments in ART 10, 216, and 217. NR

ART 217
CERAMICS – HANDBUILDING III
3 Units; 1.5 hours lecture; 4.5 hours lab
Prerequisite: ART 216
A continuation of handbuilding techniques and skills with emphasis placed on individualized student projects. The focus will be on contemporary issues of scale, design, and concept. Students are limited to a combined total of four enrollments in ART 10, 216, and 217. NR

ART 228
BENCH JEWELER I
3 Units; 1.5 hours lecture; 4.5 hours lab
Recommended Preparation: ART 40
Introduction to the history of jewelry, design processes, materials, core techniques of piercing, sawing, basic soldering, and safety policies and procedures of a bench jeweler. Students are limited to a combined total of four enrollments in ART 228, 229, 230, and 231. NR

ART 229
BENCH JEWELER II
3 Units; 1.5 hours lecture; 4.5 hours lab
Prerequisite: ART 228
Recommended Preparation: ART 40
Introduces green alternatives in the jewelry industry, the development of concept designs, and the techniques of etching, surface textures, cold connection and the process of soldering wire elements. Students are limited to a combined total of four enrollments in ART 228, 229, 230, and 231. NR

ART 230
BENCH JEWELER III
3 Units; 1.5 hours lecture; 4.5 hours lab
Prerequisite: ART 229
Recommended Preparation: ART 40
Introduction to the history of the lost wax process and the principles of designing jewelry for casting process. Explore the more advanced soldering techniques of soldering hollow forms and rings. Students are limited to a combined total of four enrollments in ART 228, 229, 230, and 231. NR

ART 231
BENCH JEWELER IV
3 Units; 1.5 hours lecture; 4.5 hours lab
Prerequisite: ART 230
Recommended Preparation: ART 40
Explore more advanced techniques of construction, fusing silver, reticulation, catches, hinges and jewelry repair. Learn basic jewelry photography for including work in a portfolio. Students are limited to a combined total of four enrollments in ART 228, 229, 230, and 231. NR

ART 240
INTERMEDIATE GRAPHIC DESIGN
3 Units; 2 hours lecture; 3 hours lab
Recommended Preparation: GD 140
Study of design concepts to explore organization of visual elements to graphics. Studio work will include layout and production of designed formats (magazine ads, logos, TV, story board, newspapers and ads) and conceptualization techniques in the graphic design field, as well as portfolio preparation. Also listed as GD 240. Credit given in either area, not both. NR

ART 250
PLEIN AIR LANDSCAPE PAINTING
3 Units; 1.5 hours lecture; 4.5 hours lab
Recommended Preparation: ART 50, 80
Explores the process of painting out-of-doors. Includes the study of the history and tradition of this genre, painting mechanics, angles and consequent values, design, light, aerial perspective, linear perspective, color natural symbols, composition, main line and theme. Students are limited to a combined total of four enrollments in ART 50, 51, 52, and 250. NR

ART 261
OPAQUE WATERCOLOR
3 Units; 1.5 hours lecture; 4.5 hours lab
Recommended Preparation: ART 57
An overview of traditional and contemporary color practices, techniques and styles with opaque watercolor or gouache. A comprehensive and practical application of color media which is used as a bridge between Newtonian color theory and intuitive painting. Provides the opportunity for exploration and familiarization of painting methods and styles through a range of in-class exercises and outside assignments all addressing the spectrum of color and its relationships. Students are limited to a combined total of four enrollments in ART 57, 58, 59, and 261. NR
Art History

ARTH 20
ART APPRECIATION
3 Units; 3 hours lecture
Transfers: CSU, UC
Designed to develop an understanding of historical and contemporary art forms, including examples of painting, sculpture, and architecture (formerly ART 20). NR

ARTH 21
WOMEN AND ART
3 Units; 3 hours lecture
Transfers: CSU, UC
Examines the history of relations between women, art, and ideology in global culture. Examines and analyzes the effects of cultural practices such as the division of labor and space in society, codes of language, the impact of new technologies, and power relations on the ways that women are represented and participate in visual culture. Explores women’s changing relation to art practice. Includes analysis of feminism, gender roles, and identity construction in art both historically and in contemporary art forms (formerly ART 21). NR

ARTH 22
SURVEY OF ASIAN ART (INDIA, CHINA, JAPAN, AND KOREA)
3 Units; 3 hours lecture
Transfers: CSU, UC
Designed as a survey of artistic traditions found in Asia including India, Korea, China, and Japan. The arts of painting, sculpture, and architecture will be discussed as artistic expressions as well as visual manifestations of Eastern religion (formerly ART 22). NR

ARTH 23
AFRICAN AND OCEANIC ART
3 Units; 3 hours lecture
Transfers: CSU, UC
Designed to develop an understanding and appreciation of the indigenous arts of Africa and the South Pacific. Studies the painting, sculpture, architectural traditions of preliterate societies emphasizing their culture as well as artistic significance (formerly ART 23). NR

ARTH 24
INDIGENOUS ARTS OF THE AMERICAS
3 Units; 3 hours lecture
Transfers: CSU, UC
Survey of the indigenous artistic traditions of North, Central, and South America extending from the United States and Mexico to Peru from circa 1000 BC to the Conquest. The course will address historical and contemporary cultures of the Western hemisphere (Native American and pre-Columbian) from a historical ethnographical context, examining the formal elements of painting, sculpture, architecture, ceramics, and textiles in the context of native socio-political systems and religious beliefs (formerly ART 24). NR

ARTH 25
SURVEY OF ART HISTORY: ANCIENT WORLDS TO GOTHIC
3 Units; 3 hours lecture
Transfers: CSU, UC
Emphasizing the historical development of painting, sculpture, and architecture including philosophical and cultural perspectives (formerly ART 25). NR

ARTH 26
SURVEY OF WESTERN ART HISTORY: RENAISSANCE TO CONTEMPORARY
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: Completion of or concurrent enrollment in ENG 200
Survey of the art of the Western world emphasizing the historical development of painting, sculpture, and architecture including philosophical and cultural perspectives (formerly ART 26). NR

ARTH 27
HISTORY OF AMERICAN ART
3 Units; 3 hours lecture
Transfers: CSU, UC
A survey of the chronological development of painting, sculpture, and architecture in the United States from its pre-colonial past to the end of World War II. The contributions and influences of a variety of ethnic groups to the diversity of art in the United States will be addressed. The artistic contribution of Native American, African Americans, Asian Americans, Chicano/Latino Americans and European Americans will be studied in the larger context of American society, history, and culture (formerly ART 27). NR

ARTH 29
INTRODUCTION TO WORLD ART
3 Units; 3 hours lecture
Transfers: CSU, UC
Survey of the visual arts of the world through the millennia, including the regions and cultures of Europe, Asia, the Americas, and Africa. Major emphasis is given to the development of the world’s most significant painting, sculpture, and architecture within their respective social, political, and religious contexts. The course examines the roles of artist and patron, and the relationship between the art object and its intended function (formerly ART 29). NR

ARTH 100
ART GALLERY/DISPLAY AND EXHIBITION
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Designed to introduce students to a variety of aspects in working and running a non-profit/educational art gallery. Students will participate in the planning of shows along with the practical experience of preparing and installing shows in the Saddleback College Art Gallery. Students will visit local galleries and museums to further enhance their ideas of the functions of an art gallery (formerly ART 100). NR

ARTH 102
INTRODUCTION TO THE THEORIES OF ART
3 Units; 3 hours lecture
Transfers: CSU
Offers historical perspectives of the visual arts by thematically examining the intellectual ideas and technologies that inform their production and reception. The significance of the changing role of the visual arts and their producers will be explored in this course by way of art and design works which reflect, interpret and comment upon the ideas, events, social histories and technological developments of their respective eras. Students will be encouraged to appreciate and analyze the historical underpinnings, which have shaped and directed the practice and reception of art and design. NR
ARTh 103  
HISTORY OF MODERN ART  
1825-1945  
3 Units; 3 hours lecture  
-transfers: CSU  
Examines the history of visual culture in Europe and North America from the invention of Photography to the end of the second world war. Topics covered include the following: Realism, Impressionism, Post-Impressionism, Symbolism, Cubism and its responses, Expressionism and its responses, Surrealism, International style and North American Regionalisms. Looks closely at significant theoretical constructs such as the Avant Garde, Modernism, Art Criticism and Patronage (institutional and private). Examines the effects of new technologies on the development of art during this period; most importantly photography and film.  
NR  

ARTh 104  
SURVEY OF CONTEMPORARY ART  
3 Units; 3 hours lecture  
-transfers: CSU  
Surveys and analyzes the Global expansion, development, and transmission of art practices since 1945. Post World War II cultures produced rapid economic, technological and social changes. In turn, artists responded to these social changes by producing works of art that both comment on and absorb the cultural environments in various ways through individual visions and shared ideological perspectives. Examines art since 1945 by looking at the works and the ideas and technologies that inform them. Also examines the public and private spaces in which art is seen and understood.  
NR  

ARTh 120  
TOUR-ART  
HISTORY/APPRECIATION  
3 Units; 3 hours lecture  
-transfers: CSU  
Designed to give students the opportunity to study visual cultural productions on site. Its content stresses the relationship between art and its most significant institutions of reception, museums and galleries (formerly ART 120).  
NR  

Astronomy  

ASTR 20  
GENERAL ASTRONOMY  
3 Units; 3 hours lecture  
-transfers: CSU, UC  
An introductory astronomy course covering the development of astronomy from ancient times to modern times. Includes the study of the solar system, the stars and stellar systems, the Milky Way Galaxy, other galaxies and galaxy-like objects, and the expanding universe and theories of its origin. Field trips may be required to fulfill the objectives of the course.  
NR  

ASTR 21  
THE SOLAR SYSTEM  
3 Units; 3 hours lecture  
-transfers: CSU, UC  
A study of the origin and evolution of our solar system, from the beginning to the present, as deduced from sampling, remote sensing, exploration, imagery, and theory. We will discuss and compare composition; tectonics; volcanism; surface processes; and atmospheric and thermal evolution of earth, the moon, terrestrial, and Jovian planets and their satellites. Additional topics will include meteorite and comet impacts and the possible existence of life elsewhere in the solar system. Field trips may be required to fulfill the objectives of this course. Also listed as GEOL 21. Credit given in either area, not both.  
NR  

ASTR 25  
OBSERVATIONAL ASTRONOMY  
3 Units; 2 hours lecture; 3 hours lab  
-transfers: CSU, UC  
Recommended Preparation: ASTR 20  
An introductory observational astronomy course covering various observational targets, tools, and methods, through actual observation and experimentation. Students will use college-owned telescopes to observe the sun, moon, planets, available comets, multiple stars, variable stars, and deep sky objects including nebulae and galaxies. Field trips required to fulfill the course objectives.  
NR  

Automotive  

AUTO 100  
AUTOMOTIVE FUNDAMENTALS  
3 Units; 2.5 hours lecture; 1.5 hours lab  
-transfers: CSU  
Introduction to the principles of operation of modern automobile systems and a practical introduction to automotive tools and diagnostic equipment. Demonstrated lectures and some practical experience in the laboratory. Structured for the non-technical student.  
NR  

AUTO 101  
AUTOMOTIVE ELECTRICAL SYSTEMS  
3 Units; 2.5 hours lecture; 1.5 hours lab  
-transfers: CSU  
Recommended Preparation: AUTO 100  
Operating principles, troubleshooting techniques, and repair procedures of electrical supply systems and battery-starter systems. Demonstrated lectures and practical experience in the laboratory on batteries, starter systems, alternator, generator charging systems, and accessory and lighting systems. Scan tool and digital multimeter techniques will be emphasized.  
NR  

AUTO 102  
AUTOMOTIVE ENGINE PERFORMANCE/ELECTRONICS AND IGNITION  
3 Units; 2.5 hours lecture; 1.5 hours lab  
-transfers: CSU  
Recommended Preparation: AUTO 100 and 207  
Operating principles, troubleshooting techniques, and repair procedures for automotive engine performance systems. Emphasis on battery, charging and ignition systems. Demonstrated lectures and practical experience in the laboratory using modern testing equipment, oscilloscopes, and other diagnostic equipment on “live” vehicles.  
NR
AUTO 103
AUTOMOTIVE ENGINE PERFORMANCE/FUEL AND EMISSION SYSTEMS
3 Units; 2.5 hours lecture; 1.5 hours lab
Transfers: CSU
Recommended Preparation: AUTO 100 and 207
Operating principles, troubleshooting techniques and repair procedures for automotive engine performance systems. The emphasis is fuel and engine emission control systems. Demonstrated lectures and practical experience in the laboratory using modern testing equipment, oscilloscopes, and other diagnostic equipment on "live" vehicles. NR

AUTO 104A
AUTOMOTIVE ENGINES
5 Units; 3.5 hours lecture; 4.5 hours lab
Transfers: CSU
Recommended Preparation: AUTO 100, 207
Practical experience in the rebuilding, overhauling, and machining of engine components of the internal-combustion engine. It is recommended that the student have access to an engine for overhaul purposes. First part of a two-semester program covering block boring and honing techniques as well as bearing installation. Piston and ring selection procedures will be covered. The basic block will be assembled. NR

AUTO 104B
AUTOMOTIVE ENGINES
5 Units; 3.5 hours lecture; 4.5 hours lab
Transfers: CSU
Prerequisite: AUTO 104A
Recommended Preparation: AUTO 100, 207
Practical experience in the rebuilding, overhauling, and machining of engine components of the internal-combustion engine. A continuation of AUTO 104A. Covers cylinder head overhauls, camshaft selection, and cylinder head assembly. The complete engine will be assembled in the lab. NR

AUTO 105
AUTOMOTIVE POWER TRAIN
3 Units; 2.5 hours lecture; 1.5 hours lab
Transfers: CSU
Recommended Preparation: AUTO 100
Operating principles, overhaul, and repair procedures of automotive power-trains, including clutches, multiple speed four-wheel drive transmissions, overdrives, drive line, differentials, and rear axles. Demonstrated lectures and practical experience in the laboratory on power-train components. NR

AUTO 106A
AUTOMOTIVE SUSPENSION AND ALIGNMENT
3 Units; 2.5 hours lecture; 1.5 hours lab
Transfers: CSU
Recommended Preparation: AUTO 100
Operating principles, design, diagnosis and overhaul of chassis suspension systems. Demonstrated lectures and practical experience in the laboratory performing suspension diagnosis and repair. Students will perform two and four wheel alignments using modern alignment equipment on "live" vehicles. NR

AUTO 106B
AUTOMOTIVE BRAKE SYSTEMS
3 Units; 2.5 hours lecture; 1.5 hours lab
Transfers: CSU
Recommended Preparation: AUTO 100
Operating principles, troubleshooting techniques, and repair of automotive disc and drum brake systems. Latest antilock brake systems (ABS) system theory and operation with scan tool analysis will be covered. Complete component overhaul, machining methods, and selection of materials for safe brake operation are also covered. Prepares the student for the State of California brake inspection license. NR

AUTO 107
AUTOMATIC TRANSMISSION
3 Units; 2.5 hours lecture; 1.5 hours lab
Transfers: CSU
Recommended Preparation: AUTO 100
Operating principles, design, overhaul, adjustment, and servicing of front wheel drive (FWD) and rear wheel drive (RWD) automatic transmissions. Troubleshooting techniques utilizing scan tools for computer-controlled transmission diagnosis. Demonstrated lectures and laboratory work on automatic transmissions. NR

AUTO 108
AUTOMOTIVE AIR CONDITIONING
3 Units; 2.5 hours lecture; 1.5 hours lab
Transfers: CSU
Recommended Preparation: AUTO 100
Operating principles, design, diagnosis of vehicle heating and air conditioning systems. Emphasis is placed on diagnosis and troubleshooting of "live" vehicles. Students are required to obtain the Section A609 certification for lab activities. NR

AUTO 109
CALIFORNIA B.A.R. BASIC AREA CLEAN AIR CAR COURSE
5 Units; 4.5 hours lecture; 1.5 hours lab
Transfers: CSU
Recommended Preparation: AUTO 100 and completion of or concurrent enrollment in AUTO 102, 103, or 202
This Bureau of Automotive Repair certified course meets the Level I requirements for taking the California B.A.R. licensed smog check inspector examination. Course content will include the study of proper vehicle inspection procedures, testing, diagnosis, and certification procedures following the current laws and regulations. For state certification, students must meet Bureau of Automotive Repair requirements. NR
AUTO 200
ENHANCED AREA CLEAN AIR CAR COURSE
1 Unit; 1 hour lecture; 1 hour lab
Recommended Preparation: AUTO 100 and 109
This Level II Bureau of Automotive Repair certified course meets one of the requirements for taking the State of California B.A.R. licensed smog check technician examination. Course content will include ASM emission inspection system operation (Dyno), digital storage oscilloscope theory, operation and diagnostics. For state certification, students must meet Bureau of Automotive Repair requirements. NR

AUTO 204A
HIGH PERFORMANCE ENGINE BLUEPRINTING – ROTATING ASSEMBLY
3 Units; 2.5 hours lecture; 1.5 hours lab
Prerequisite: Completion of or concurrent enrollment in AUTO 104A or 104B
Recommended Preparation: AUTO 100 or 207
Incorporates advanced measuring techniques, machining skills and advanced theory in building a high-performance engine. Advanced cylinder block boring, honing, and decking procedures as well as crankshaft and piston/rod balancing are taught. NR

AUTO 204B
HIGH PERFORMANCE ENGINE BLUEPRINTING – CYLINDER HEADS
3 Units; 2.5 hours lecture; 1.5 hours lab
Prerequisite: Completion of or concurrent enrollment in AUTO 104A or 104B
Recommended Preparation: AUTO 100 or 207
Incorporate advanced measuring techniques, machining skills and advanced theory in building a high-performance engine. Advanced cylinder head machining, cylinder head airflow studies using the latest airflow bench practices, as well as high performance engine assembly techniques. NR

AUTO 205
ADVANCED SMOG UPDATE TRAINING
0.5 Unit; 0.5 hours lecture; 1 hour lab
Recommended Preparation: AUTO 100, 102, 103, 109
California Bureau of Automotive Repair (B.A.R.) approved update course covers the required emission update program. In-depth program covering current laws and regulations, ASM testing, and emission diagnostics used to inspect, test and repair late model vehicles. NR

AUTO 206
AUTOMOTIVE ENGINEERING FUNDAMENTALS
3 Units; 3 hours lecture
Recommended Preparation: AUTO 100 and MATH 251
Introduction to the science and design of the modern automobile. Basic physics and related mathematical concepts are explained using the automobile as an example. In-class demonstrations and student participation provide the connection between theory and real world applications. NR

AUTO 210
ALTERNATIVE PROPULSION SYSTEMS
3 Units; 2.5 hours lecture; 1.5 hours lab
Recommended Preparation: AUTO 100 and 207
Study alternative propulsion systems including compressed natural gas (CNG), propane, diesel, hybrid and electric vehicle technology. Laboratory exercises include safety, operation and maintenance of hybrid, electrical and alternative propulsion systems. NR

AUTO 226
AUTOMOTIVE SERVICE CONSULTANT
2 Units; 2 hours lecture
Recommended Preparation: AUTO 100
Focuses on Automotive Service Consultants and their relationship to the processing of work within the automotive service facility. The actions, procedures and interaction with all personnel and their value will be discussed in detail. Content is aligned with tasks identified by Automotive Service Excellence (ASE). NR

AUTO 227
AUTOMOTIVE SERVICE MANAGEMENT
3 Units; 3 hours lecture
Recommended Preparation: AUTO 100
Introduction to an automotive service department as it pertains to management. Skill development for operating an automotive business, including service consulting, service management and communication practices. Instruction in federal, state and local regulations for operating a service department. NR
AUTO 228  
ADVANCED VEHICLE PERFORMANCE  
1 Unit; 1 hour lecture; 1 hour lab  
Recommended Preparation:  
AUTO 100, 102, 103, 202, 207  
Advanced engine and driveline performance diagnosis will be explored. The course will include advanced diagnostic techniques using the Chassis Dyno on "live" vehicles.  
NR

AUTO 229  
DIESEL TECHNOLOGY  
3 Units; 2.5 hours lecture; 1.5 hours lab  
Recommended Preparation:  
AUTO 100  
Diesel technology covers the design, construction, operation, diagnosis, service, and repair of both mobile and stationary diesel engines. The theory, operation, service and diagnosis of diesel engines, engine control computers, fuel management systems, and emission control systems are covered in detail.  
NR

AUTO 231  
HYBRID AND ELECTRICAL VEHICLE TECHNOLOGY  
3 Units; 2.5 hours lecture; 1.5 hours lab  
Recommended Preparation:  
AUTO 100 and 207  
The extensive study of hybrid, plug-in hybrid, and electrical vehicle powertrain systems. Laboratory exercises include safety, operation, maintenance and repair of hybrid, plug-in hybrid and electrical vehicle powertrain systems.  
NR

AUTO 232  
DIESEL SYSTEMS TECHNOLOGY  
3 Units; 2.5 hours lecture; 1.5 hours lab  
Recommended Preparation:  
AUTO 100  
Covers the design, construction, operation, diagnosis, service, maintenance and repair of both mobile and stationary diesel vehicle systems and equipment. The theory, operation, service and diagnosis of diesel powered vehicles and equipment, engine control computers, fuel management systems, braking systems, powertrain, propulsion systems, and emission control systems are covered in detail.  
NR

AUTO 240  
AUTOMOTIVE LAB  
3 Units; 9 hours lab  
Prerequisite: AUTO 100  
Provides directed activities in the "live" automotive lab environment. Designed for students who have intermediate skill level and wish to upgrade and perfect their lab skills. Includes the use of automotive specific tools and equipment.  
NR

Biology  

BIO 3A  
GENERAL BIOLOGY I  
5 Units; 3 hours lecture; 6 hours lab  
Transfers: CSU, UC  
Prerequisite: CHEM 1A  
Presents the principles of life and life processes with an emphasis on cellular chemistry, cellular structure, cellular energetics, evolution, molecular biology, genetics, and ecology of living organisms. Field trips may be required to fulfill the objectives of the course.  
NR

BIO 3B  
GENERAL BIOLOGY II  
5 Units; 3 hours lecture; 6 hours lab  
Transfers: CSU, UC  
Prerequisite: BIO 3A  
Builds upon BIO 3A with emphasis on the origins of life, plant and animal structure and physiology, evolutionary relationships of taxonomic groups, and ecology. Field trips will be required to fulfill the objectives of the course.  
NR

BIO 3C  
BIOCHEMISTRY AND MOLECULAR BIOLOGY  
5 Units; 3 hours lecture; 6 hours lab  
Transfers: CSU, UC  
Prerequisites: CHEM 12A and BIO 3A  
An introduction to biochemistry and molecular biology. Included are discussions of biological macromolecules, energy production, metabolic pathways and regulation, genetic code and genomics, DNA replication, transcription and RNA processing, translation, and gene regulation. Laboratory activities will include use of visible and UV spectroscopy, chromatography, cell fractionation and ultracentrifugation, protein purification, electrophoresis, and recombinant DNA methods. This course is designed for biology majors and health pre-professionals. Field trips may be required to fulfill the objectives of the course.  
NR

BIO 11  
HUMAN ANATOMY  
4 Units; 2 hours lecture; 6 hours lab  
Transfers: CSU, UC  
Prerequisite: BIO 20 or one year of high school biology with a grade of "C" or better  
A basic course in the structure of the human body using all systems approach. Emphasis is placed on the relationship between structure and function. Laboratory emphasis on use of the light microscope, histology, and gross anatomy, including cat dissection. Designed for biology majors and health pre-professionals.  
NR

BIO 12  
HUMAN PHYSIOLOGY  
4 Units; 3 hours lecture; 3 hours lab  
Transfers: CSU, UC  
Prerequisite: CHEM 108 and one year of high school biology with a grade of "C" or better  
A course in human physiology that will center on the functioning and integration of the major organ systems. Emphasis will be placed on the cardiovascular, excretory, respiratory, digestive, and nervous systems and their interactions. Extensive use of physiological recording equipment will be included in the laboratory sessions. Field trips may be required to fulfill the objectives of this course. It is designed for biology majors and health pre-professionals.  
NR

BIO 15  
GENERAL MICROBIOLOGY  
5 Units; 3 hours lecture; 6 hours lab  
Transfers: CSU, UC  
Prerequisite: BIO 20 or one year of high school biology with a grade of "C" or better  
Recommended Preparation: BIO 11 and CHEM 108  
An examination of the fundamental biological concepts as they apply to viruses, bacteria, fungi, and protozoa. Emphasis is placed on the prokaryotic cell. Theoretical as well as practical applications are discussed in such topics as bacterial morphology, metabolism, genetics, chemotherapy, and antibiotics. Also included are resistance and immunity, health, and disease. Includes laboratory techniques and methods.  
NR
BIO 19  
MARINE BIOLOGY  
4 Units; 3 hours lecture; 3 hours lab  
Transfers: CSU, UC  
Recommended Preparation: College-level biology course (BIO 20)  
Study of the description, distribution, and natural history of marine organisms. Marine life of Southern California will be studied with an emphasis on ecology and adaptations. Field trips may be required to fulfill the objectives of this course. NR

BIO 20  
INTRODUCTION TO BIOLOGY  
4 Units; 3 hours lecture; 3 hours lab  
Transfers: CSU, UC  
Integrated study of the basic principles of biology, with emphasis on the principles of structure and function, genetics, development, evolution, and ecology. Discussion of the philosophy, concepts and implications of modern biology will be included. Field trips will supplement laboratory work. NR

BIO 22  
HUMAN GENETICS  
3 Units; 3 hours lecture  
Transfers: CSU, UC  
Prerequisite: BIO 20  
Focuses on the processes of DNA replication, DNA recombination, gene expression, and mutation in diploid organisms. Includes a survey of human genetics and genetic disorders. Field trips may be required to fulfill the objectives of this course. NR

BIO 28  
PLANTS AND HUMAN AFFAIRS  
3 Units; 3 hours lecture  
Transfers: CSU, UC  
Recommended Preparation: BIO 20  
An introduction to the importance of plants and fungi, and their products, in the shaping of human affairs and civilization. The history of agriculture, the utilization of plant and fungal products, and current environmental and social issues surrounding agriculture, including genetic engineering will be covered. Plants, fungi and their products are examined during class demonstrations and exercises. For non-science majors. NR

BIO 30  
HUMAN BIOLOGY  
3 Units; 3 hours lecture  
Transfers: CSU, UC  
Recommended Preparation: BIO 20  
A general introduction to human structure, functions, genetics, evolution, and ecology. The human organism is examined from the basic cellular level and genetics, through organ systems, to interaction with the outside world. Pertinent health topics such as nutrition, exercise and modern medical advances are also discussed. NR

BIO 31  
BIOLOGY OF PLANTS  
4 Units; 3 hours lecture; 3 hours lab  
Transfers: CSU, UC  
Recommended Preparation: BIO 20  
Introduction to the structure, function, development, heredity, physiology, evolution, and ecology of vascular plants and bryophytes. Historical and modern uses of plants will be discussed with particular emphasis on pharmaceutical and agricultural applications. Laboratory exercises include greenhouse and field trip activities. NR

BIO 40  
EVOLUTION  
3 Units; 3 hours lecture  
Transfers: CSU, UC  
An introduction to the theory of evolution. Emphasis will be placed on both the theory of evolution and the evidence for evolution. A non-majors course for students with little background in the sciences. Field trips may be required to fulfill the objectives of this course. NR

BIO 45  
BIOLOGY OF HUMAN DISEASE  
3 Units; 3 hours lecture  
Transfers: CSU, UC  
Recommended Preparation: BIO 20 or an Introductory Biology college level biology course  
A basic introductory course on human diseases and disease processes. Relates disease and the disease process to the human anatomical and human physiological systems. This course does not meet the requirements of anatomy, physiology, or pathophysiology for nursing students. NR

BIO 49  
RESEARCH IN BIOLOGY AND BIOCHEMISTRY A  
1.5 Units; 0.5 hours lecture; 3 hours lab  
Transfers: CSU, UC  
Prerequisite: BIO 3A  
Provides a foundation for laboratory and/or field experience for advanced students in the biological sciences. Focuses on application of the scientific method through hypothesis generation and experimental design. Students will learn good laboratory practices, equipment use and care, and standard laboratory safety procedures and bioethical concerns associated with research. NR

BIO 50  
RESEARCH IN BIOLOGY AND BIOCHEMISTRY B  
1.5 Units; 0.5 hours lecture; 3 hours lab  
Transfers: CSU, UC  
Prerequisite: BIO 49  
Provides advanced laboratory and field experience for students in the biological sciences. Continues the student’s research experience with explicit laboratory and/or fieldwork focusing on equipment use and care, data collection, analysis, and interpretation, verbal and written presentation of results, and standard laboratory safety procedures and bioethical concerns associated with research (formerly BIO 150). NR
BIO 104
FORENSIC BIOLOGY
4 Units; 3 hours lecture; 3 hours lab
Transfers: CSU
Recommended Preparation: BIO 20
An introduction to the profession of forensic science. Provides a hands-on approach to analysis from the crime scene to the crime laboratory. Includes practical lab study designed to reinforce important forensic, scientific and investigative skills. Class will be supported by guest speakers from the field. NR

BIO 110
HUMAN ANATOMY
1 Unit; 1 hour lecture
Transfers: CSU
Corequisite: BIO 11
This discussion course affords students enrolled in BIO 11, Human Anatomy, the opportunity to develop background information, problem solving, extend discussion and exchange ideas concerning human structure. Discussion focuses on anatomical components and other key topics covered in BIO 11 as well as background information not generally covered in lecture. Designed to help students succeed in their study of human anatomy. NR

BIO 112
PATHOPHYSIOLOGY
3 Units; 3 hours lecture
Transfers: CSU
Prerequisite: BIO 12
A study of the pathophysiology of common disorders of the human nervous, muscular, skeletal, endocrine, cardiovascular, respiratory, excretory, digestive, and reproductive systems. Special emphasis will be placed on the relationship between the normal physiology and the physiological basis of the disease process with special references to clinical correlations. The course is designed for nursing/nurse practitioner majors NR

BIO 113
HUMAN ANATOMY AND PHYSIOLOGY
4 Units; 3 hours lecture; 3 hours lab
Transfers: CSU
Examines the relationships between human anatomical and human physiological systems. The laboratory will include dissection. This course does not meet the requirements of either anatomy or physiology for nursing students. NR

BIO 120
HUMAN PHYSIOLOGY
DISCUSSION
1.5 Units; 1.5 hours lecture
Transfers: CSU
Corequisite: BIO 12
Designed to afford students enrolled in BIO 12, Human Physiology, the opportunity to develop background information, problem solving, extend discussion and exchange ideas concerning the function and integration of human organ systems. Discussions focus on physiological components and other key topics covered in BIO 12, as well as background information not generally covered in the lecture. Designed to help students succeed in their study of human physiology. NR

BIO 175
BIOLOGY FIELD STUDIES:
EASTERN SIERRA MOUNTAINS
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU
A study of the flora and fauna and natural history of selected sites within the Eastern Sierra Mountains and adjacent areas. NR

BIO 210
BASICS OF BIOLOGY A
1.5 Units; 1.5 hours lecture
Corequisite: BIO 3A
Consists of the development of background information, problem solving, and extended discussions to help students succeed in their study of general biology. NR

BIO 211
BASICS OF BIOLOGY B
1.5 Units; 1.5 hours lecture
Corequisite: BIO 3B
Consists of the development of background information, problem solving, and extended discussions to help students succeed in their study of general biology. NR

BIO 230
BIOLOGY FIELD STUDIES:
COASTAL ECOSYSTEMS
1 Unit; 0.5 hours lecture; 1.5 hours lab
A study of the ecology of the coastal environments. Includes origin of estuaries, morphology and parameters of estuarine basins, estuarine shores and substrates, and flora and fauna identification. NR

BIO 231
BIOLOGY FIELD STUDIES:
ISLAND ECOSYSTEMS
1 Unit; 0.5 hours lecture; 1.5 hours lab
Introduction to island ecosystems. Direct observations and experiments in the field are complemented by lectures and discussions of the physical environment; natural history and ecology of the flora and fauna; and community structure. NR

BIO 232
BIOLOGY FIELD STUDIES:
MOUNTAIN ECOSYSTEMS
1 Unit; 0.5 hours lecture; 1.5 hours lab
Introduction to relationships among plants, animals and physical environments that characterize mountain habitats. Topics will include natural history, biology and ecology of the flora and fauna, and community structure and analysis. Introductory lectures complement direct field observations and field experiments, as well as the collection, analysis and interpretation of data. NR

BIO 233
BIOLOGY FIELD STUDIES:
DESERT ECOSYSTEMS
1 Unit; 0.5 hours lecture; 1.5 hours lab
An introduction to the relationships among plants, animals and physical environments that characterize desert habitats. Topics will include natural history, biology and ecology of the flora and fauna and community structure and analysis. Introductory lectures complement direct field observations and field experiments, as well as the collection, analysis and interpretation of data. It is intended for both science majors and non-majors. NR

Business

BUS 1
INTRODUCTION TO BUSINESS
3 Units; 3 hours lecture
Transfers: CSU, UC
Survey course provides awareness of functions of business in society. Promotes an appreciation for business ownership; competition; and the systems, technology, and controls through which business organizations operate. Provides the opportunity for developing critical thinking skills regarding the role business plays in global economics and its effects on people. NR
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
<th>Lecture</th>
<th>Lab</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 13</td>
<td>LEGAL ENVIRONMENT AND BUSINESS LAW</td>
<td>3</td>
<td>3</td>
<td></td>
<td>Studies the basic of English grammar and sentence structure through short exercises with business themes. Focuses on correcting the most common errors of grammar, punctuation, and usage. Includes review of the parts of speech, improvement of spelling and vocabulary, and proofreading. Lays the foundation for clear business writing.</td>
</tr>
<tr>
<td>BUS 103</td>
<td>BUSINESS ENGLISH</td>
<td>3</td>
<td>3</td>
<td></td>
<td>Studies the basic of English grammar and sentence structure through short exercises with business themes. Focuses on correcting the most common errors of grammar, punctuation, and usage. Includes review of the parts of speech, improvement of spelling and vocabulary, and proofreading. Lays the foundation for clear business writing.</td>
</tr>
<tr>
<td>BUS 106</td>
<td>LEGAL ASPECTS OF ENTREPRENEURSHIP</td>
<td>2</td>
<td></td>
<td></td>
<td>Examines the legal implications involved in the creation, acquisition, and/or sale of a new business, profit or non-profit. Specific legal theory covering business formation, contract and lease negotiation, enforcement, protection of intellectual property, cyber law, employment law, contracts, and regulatory compliance including tax, environmental and labor issues.</td>
</tr>
<tr>
<td>BUS 107</td>
<td>INNOVATION AND NEW PRODUCT DEVELOPMENT</td>
<td>3</td>
<td>3</td>
<td></td>
<td>Leads to in-depth understanding of the requirements, issues (including ethics and sustainability), and tools involved in the planning and development of new products and services. Addresses determination of new product development strategies based on market needs. Students examine variables including number and diversity of products, product innovations, product design, prototyping, and testing for form, function, and the marketplace.</td>
</tr>
<tr>
<td>BUS 108</td>
<td>SOCIAL ENTREPRENEURSHIP</td>
<td>3</td>
<td>3</td>
<td></td>
<td>The concepts, skills, and structures needed to develop and improve the effectiveness of social enterprises that address challenging problems in areas such as poverty, hunger, education, the environment, health, and others. Topics include the field of social entrepreneurship, the challenge and the passion; generating innovation, business models used by social entrepreneurs; mechanics and realities of planning, starting and/or managing a social enterprise; building alliances and financial aspects of social entrepreneurship. Students will plan a social enterprise and participate in hands-on funding development.</td>
</tr>
</tbody>
</table>
BUS 109  
E-COMMERCE MARKETING  
3 Units; 3 hours lecture  
Transfers: CSU  
Explores the realities and implications of electronic commerce (e-commerce) from a marketer’s perspective. This course introduces a wide range of electronic commerce issues and platforms for marketers as a foundation for continuous and emerging learning in the dynamic e-commerce environment. NR

BUS 111  
BUSINESS SUSTAINABILITY STRATEGIES: PEOPLE, PLANET, PROFIT  
3 Units; 3 hours lecture  
Transfers: CSU  
Examines business strategies that support sustainability including effects on profitability, the workforce, community relations, lowering of liability, company positioning, other areas of business, and the environment. Addresses various types of businesses and industries—established, changing, and emerging. Includes implications for entrepreneurship. Explores how businesses benefit from energy efficiencies, people and planet friendly practices, materials and products, recycling/repurposing, and other practices related to sustainability. Reviews legal and ethical issues, strategic planning, development, and measurement of policies, practices, and products that support sustainability. NR

BUS 116  
PERSONAL LAW/STREET LAW  
3 Units; 3 hours lecture  
Transfers: CSU  
Law for the individual and family for lifelong decision-making. Topics include legal problems associated with family relationships, impairment of physical and mental health, property ownership, insurance coverage, employment, contracts, crime, torts, estate planning, housing, courts, finances, credit, identity theft, dispute resolution, and advocacy in the community. Emphasis is community-based service-learning and preventive law to minimize stress associated with legal problems and achieve optimal physical and mental health. NR

BUS 120  
BUSINESS MANAGEMENT  
3 Units; 3 hours lecture  
Transfers: CSU  
Active learning approach to management concepts and practices: leading, planning, organizing, directing, controlling, making decisions. Develops and improves management skills in communicating, thinking critically, motivating, identifying/gaining resources, making business/workplace decisions. NR

BUS 125  
HUMAN RELATIONS IN BUSINESS  
3 Units; 3 hours lecture  
Transfers: CSU  
Management and development of effective human relations in the social subgroup of business organizations. Focuses on the ways people act in response to their work environment; creates awareness of policies and actions that prevent or resolve problems among individuals within groups, improving communication and managing conflict. Develops methods of inquiry used in study of current management techniques; stimulates critical thinking about human organizational challenges, workforce diversity, and solutions aimed at greater productivity of the individual, groups, customer service, and project management. NR

BUS 135  
MARKETING  
3 Units; 3 hours lecture  
Transfers: CSU  
Introduction to the classic and contemporary marketing functions related to organizations and the economy. Course will provide analysis of marketing strategies necessary to develop and market products and services by applying various marketing concepts and new technologies. Integrated case study analysis stimulates problem-solving, pricing, distribution, promotion, and uses of new technologies, including e-commerce. NR

BUS 137  
PROFESSIONAL SELLING FUNDAMENTALS  
3 Units; 3 hours lecture  
Transfers: CSU  
Principles, problems, and techniques of one-on-one selling of ideas, products, and services in today’s business world. Practical experience via guided role-playing with techniques for success as a sales professional. Covers psychological and social aspects of buyer motivation, critical thinking, ethics, presentation tools and skills as appropriate for personal selling. NR

BUS 138  
ADVERTISING  
3 Units; 3 hours lecture  
Transfers: CSU  
Contemporary advertising for profit and non-profit organizations. Examines ethics, strategies, design approaches, electronic applications, and media selection. Elements of good copy, layout, and production of both print and electronic media, including email, e-marketing, e-retailing, web sites, and social media will be discussed. Also listed as CTVR 138. Credit given in either area, not both. NR

BUS 139  
FASHION BUYING AND MERCHANDISING  
3 Units; 3 hours lecture  
Transfers: CSU  
Study the principles and techniques of merchandising pertinent to the fashion industry including buying fashion, methods of merchandising fashion, and merchandise control. Also listed as FASH 143. Credit given in either area, not both. NR

BUS 145  
INTERNSHIP  
1 Unit; 1 hour lecture  
Transfers: CSU  
Corequisite: CWE 180  
Supervised and educationally directed internship. Weekly lectures will relate on-the-job experiences with academic program. To be taken in the final year of program. Also listed as FASH 145. Credit given in either area, not both. NR
BUS 147
SPECIAL EVENTS COORDINATION AND PROMOTION
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Emphasis is on a student-produced fashion event. The course will provide training in fashion promotion and coordination, retail sales, advertising, and merchandising. Also listed as FASH 147. Credit given in either area, not both. NR

BUS 148
VISUAL MERCHANDISING
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Visual merchandising as both an art form and a selling technique in fashion retailing. The use of color, outfit coordination, store layout, fixtures, lighting, signing, composition, mannequins, and props will be studied. Also listed as FASH 148. Credit given in either area, not both. NR

BUS 150
INTERNATIONAL BUSINESS
3 Units; 3 hours lecture
Transfers: CSU
A comprehensive overview of international business focusing on U.S. and world cultural differences related to global business concepts and the issues and trends influencing global business decision-making. Includes analysis of economic, historical, cultural, social, technological, ethics and legal, environmental, educational, and language implications; emerging markets; international trade; foreign investments; financial markets; entrepreneurship; international management; and international business strategic planning issues and trends. Addresses specific import/export concepts and procedures. NR

BUS 160
ENTREPRENEURSHIP
3 Units; 3 hours lecture
Transfers: CSU
Practical hands-on business course designed for students interested in starting their own business or for the new business owner. The course focuses on identifying opportunity, targeting markets, financial measurement metrics, legal considerations, and operational and management issues. Students will evaluate the benefits and risks of business ownership and learn skills to manage and market the business from an entrepreneurial prospective. Students will create a business plan and develop strategies to secure financing. NR

BUS 223
HUMAN RESOURCES AND EMPLOYMENT LAW
3 Units; 3 hours lecture
Introduction to human resources procedures and employment law for anyone who manages or plans to manage employees. The focus is on the legal aspects of HR management and the challenges that affect the employer. The topics include the law and HR procedures of the hiring and termination process, employee reviews, compensation and benefits, taxes, privacy, employee contracts and employment law for anyone who manages or plans to manage employees. The focus is on the legal aspects of HR management and the challenges that affect the employer. The topics include the law and HR procedures of the hiring and termination process, employee reviews, compensation and benefits, taxes, privacy, employee contracts and employee handbook/policy manual, personnel administration, unions, and workforce diversity, training and development. NR

BUS 237
FINANCING THE ENTREPRENEURIAL BUSINESS
1.5 Units; 1.5 hours lecture
Designed for entrepreneurs and future entrepreneurs as an introduction to the world of financing for new and existing businesses. Key topics include ways to find money, properly manage capital, types of financing and investors, basic guidelines of financing, principles and content of term sheets, methods to determine value of companies, and types of exit strategies. NR

BUS 260
SURVEY OF EXPORTING AND IMPORTING
3 Units; 3 hours lecture
Exporting and importing procedures and regulations. Includes essential terms and techniques, international agreements, channels of distribution, pricing, contracts, roles of United States government, organizations and agencies, customs brokers, duty rate, basic laws and regulations affecting exports and imports, access, currency exchange and payment methods, tax implications, financing, letters of credit, documentation, country and commodity trade patterns, entrepreneurship. NR

Chemistry

CHEM 1A
GENERAL CHEMISTRY
5 Units; 3 hours lecture; 6 hours lab
Transfers: CSU, UC
Prerequisite: MATH 124 and PHYS 20
Recommended Preparation: CHEM 3 or placement through the Chemistry Challenge Exam
Corequisite: CHEM 106
An introduction to the principles of chemistry. Topics include: atomic and molecular structure, bonding, nomenclature, formulas, equations, stoichiometry, thermochemistry, gases, liquids, solids and solutions. NR

CHEM 1B
GENERAL CHEMISTRY
5 Units; 3 hours lecture; 6 hours lab
Transfers: CSU, UC
Prerequisite: CHEM 1A
Includes thermodynamics, equilibria, kinetics, acids and bases, oxidation-reduction, electrochemistry, coordination chemistry, nuclear chemistry, and qualitative analysis. NR

CHEM 3
FUNDAMENTAL CHEMISTRY
4 Units; 3 hours lecture; 3 hours lab
Transfers: CSU, UC
Prerequisite: MATH 253
A study of basic principles of chemistry designed especially for the student who intends to take CHEM 1A but needs more preparation. Topics include problem-solving and calculation methods, nomenclature, formulas, equations, stoichiometry, thermochemistry, atomic and molecular structure, bonding, gases, solutions, equilibrium, acids, and bases. NR
CHEM 12A
ORGANIC CHEMISTRY
5 Units; 3 hours lecture; 6 hours lab
Transfers: CSU, UC
Prerequisite: CHEM 1B
A study of principles, theories, and reactions of organic chemistry with emphasis on the relations of structure and reactivity. The course is recommended for students whose major is chemistry or a closely-related field such as biology, biochemistry or chemical engineering. The following topics are included: stereochemistry, aliphatic and aromatic compounds, preparations and reactions of certain organic compound types, and spectroscopic methods. NR

CHEM 12B
ORGANIC CHEMISTRY
5 Units; 3 hours lecture; 6 hours lab
Transfers: CSU, UC
Prerequisite: CHEM 12A
A continuation of CHEM 12A. Topics include preparations and reactions of certain organic compound types, polynuclear and heterocyclic compounds, polymers, lipids, carbohydrates, amino acids, proteins and biochemical processes. NR

CHEM 106
BASICS OF CHEMISTRY
2 Units; 2 hours lecture
Transfers: CSU
Prerequisite: CHEM 3 and MATH 124
Corequisite: CHEM 1A
Consists of quiz/discussion/problem-solving/drill sessions. Designed to help students succeed in their study of general chemistry. NR

CHEM 108
INTRODUCTION TO GENERAL, ORGANIC, AND BIOCHEMISTRY
4 Units; 3 hours lecture; 3 hours lab
Transfers: CSU
A study of inorganic, organic, and biochemistry for health pre-professionals and non-science majors. Ideal for students planning to enter nursing and dental hygiene programs. Designed as the first chemistry course to assist students in biology and health-related professions. The focus is on the biochemistry of the human body. Health, nutrition, and basic laboratory techniques are included. NR

Child Development

CD 7
CHILD GROWTH AND DEVELOPMENT
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: ENG 200 and 340
Examines the major physical, social, emotional, and cognitive developmental milestones for children, both typical and atypical, from conception through adolescence. Emphasis on interactions between maturation and environmental factors. Students will apply developmental theory and investigative research methods to the observation of children in various settings, evaluate individual differences and analyze characteristics of development at various stages (formerly CD 107). DS 1, C-ID 100. NR

CD 15
CHILD, FAMILY, AND COMMUNITY
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: ENG 200 and 340
An examination of the developing child in a societal context focusing on the interrelationship of family, school and community with an emphasis on historical, cultural, and political factors that influence the process of socialization including identity development. Highlights the importance of respectful, reciprocal relationships that support and empower families. Major theoretical perspectives will be examined (formerly CD 105). DS 2, C-ID 110. NR

CD 101
PRINCIPLES AND PRACTICES OF TEACHING YOUNG CHILDREN
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: CD 107 and ENG 200, 340
An examination of the underlying theoretical principles of developmentally appropriate practices applied to programs, environments, emphasizing the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative and intellectual development for all children. This course includes a review of the historical roots of early childhood programs and the evolution of the professional practices promoting advocacy, ethics and professional identity. DS 3, C-ID ECE 120, CAP Aligned

CD 110
INTRODUCTION TO CURRICULUM
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Limitation: Current proof of negative TB test result
Recommended Preparation: CD 107 and ENG 200, 340
An overview of knowledge and skills related to providing appropriate curriculum and environments for toddlers and young children. Examines the teacher’s role in supporting development by using observation and assessment in play based settings. An overview of content areas will include literacy, math, science, creative and social and emotional learning. Requires a minimum of 30 lab hours supervised by CA Master Teacher. DS 3, C-ID 130, CAP Aligned NR

CD 111
CHILD GUIDANCE AND COMMUNICATION
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: ENG 200 and 340
Introduction to the study of developmentally appropriate child guidance skills. Emphasis will be on communicating effectively with children, guiding children of varying ages, promoting self control, and enhancing self-esteem. DS 3, NR

CD 112
HEALTH, SAFETY, AND NUTRITION
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: CD 101, 107, 110, ENG 200, 340
Introduction to the laws, regulations, standards, policies and procedures and early childhood 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 in families and health professionals. Focus on integrating the concepts into everyday planning and program development for all children. DS 7, C-ID 220, CAP Aligned CID ECE 220 NR
CD 113
MATH AND SCIENCE IN EARLY CHILDHOOD
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: CD 101, 107, 110, ENG 200, 340
Presents current research and best practices for teaching math and science in early childhood settings serving children ages 0-5. Material selection, integrated activities, teaching strategies, environments, and assessment methods will be covered. Does not meet general education requirements in natural science or mathematics. NR

CD 114
CREATIVE AND DRAMATIC ARTS IN EARLY CHILDHOOD
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: CD 101, 107, 110, ENG 200, 340
Presents theoretical foundations and developmentally appropriate practices for designing supportive environments, selecting appropriate materials, and developing, presenting, and evaluating curriculum in the areas of visual and performing arts for use with children ages 0-5. NR

CD 115
LITERACY IN EARLY CHILDHOOD
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: CD 101, 107, 110, ENG 200, 340
Presents current research and best practices for teaching literacy in early childhood settings serving children ages 0-5. Material selection, and integrated activities, indoor and outdoor environments and assessment methods will be covered. NR

CD 117
TEACHING IN A DIVERSE SOCIETY
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: CD 101, 107, 110, ENG 200, 340
Examination of the development of social identities in diverse societies including theoretical and practical implications of oppression and privilege as they apply to young children, families, programs, classrooms and teaching. Various classroom strategies will be explored emphasizing culturally and linguistically appropriate anti-bias approaches supporting all children in becoming competent members of a diverse society. Course includes self-examination and reflection on issues related to social identity, stereotypes and bias, social and educational access and schooling. C-ID ECE 220. CAP aligned. NR

CD 120
OBSERVATION AND ASSESSMENT
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: CD 101, 110, ENG 200 and 340
Focuses on the appropriate use of observation and assessment strategies to document and interpret children’s development, growth, play and learning as the basis for planning for success and maintaining quality programs. Recording strategies, rating systems, portfolios, assessment methods and collaboration with families in understanding individual child development are explored. C-ID ECE 200, CAP aligned. NR

CD 121
PRACTICUM: THE STUDENT TEACHING EXPERIENCE
5 Units; 3 hours lecture; 6 hours lab
Transfers: CSU
Prerequisite: CD 110 and CD 120
Limitation: TB test results on file in the Student Health Center
Recommended Preparation: CD 101, 113, 114, 115, ENG 200
Student teachers will utilize 90 hours of lab classroom experience to demonstrate developmentally appropriate teaching competencies and make connections between theory and practice under supervision. Professional behaviors, relationships with children and families, play-based approaches to teaching, learning, and assessment, and knowledge of curriculum content areas will be emphasized as students design, implement and evaluate experiences that promote positive development and learning in diverse settings. DS3 NR

CD 123
INFANT AND TODDLER DEVELOPMENT
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: CD 101, ENG 200 and 340
A study of infants and toddlers from pre-conception to age three including physical, cognitive, language, social, and emotional growth and development. Applies theoretical frameworks to interpret behavior and interactions between heredity and environment. Emphasizes the role of family and relationships in development. DS 4 NR

CD 125
SCHOOL-AGE BEFORE AND AFTER SCHOOL PROGRAMS
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: CD 101, ENG 200
An integrated approach to designing, planning and implementing developmentally appropriate programs for school-age children in before and after school care settings. Includes techniques for effective discipline and guidance, and dynamics of working as a team member. This course applies towards the licensing requirements for school-age children and youth. DS5 NR

CD 127
ADULT SUPERVISION AND MENTORING
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: CD 101, 110, ENG 200
A study of the methods and principles of supervising student teachers, assistant teachers, parents, and volunteers in early childhood or school-age centers. Emphasis is on the roles and development of early childhood professionals as mentors and leaders. Satisfies the adult supervision requirement for the Child Development Permit and eligibility to apply for the California Mentor Teacher Program. DS6 NR
CD 128
ADMINISTRATION I:
PROGRAMS IN EARLY
CHILDHOOD EDUCATION
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: CD 101, 110, ENG 200, 340
Introduction to the administration of early childhood programs. Covers program types, budget, management, regulations, laws, development and implementation of policies and procedures. Examines administrative tools, philosophies and techniques needed to organize, open, and operate an early care and education program. DS6 NR

CD 129
ADMINISTRATION II:
PERSONNEL & LEADERSHIP
EARLY CHILDHOOD ED
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: CD 101, 110, ENG 200, 340
Effective strategies for personnel management and leadership in early care and education settings. Includes legal and ethical responsibilities, supervision techniques, professional development, and reflective practices for a diverse and inclusive early care and education program. DS6 NR

CD 133
CARE AND EDUCATION FOR
INFANTS AND TODDLERS
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: CD 101, 110, ENG 200, 340
Applies current theory and research to the care and education of infants and toddlers in group settings. Examines essential policies, principles and practices that lead to quality care and developmentally appropriate curriculum for children birth to 36 months. DS4 NR

CD 135
INTRODUCTION TO CHILDREN
WITH SPECIAL NEEDS
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: CD 101, 105, 107, 110, ENG 200, 340
Introduces the variations in development of children with special needs ages birth through eight and the resulting impact on families. Includes an overview of historical and societal influences, laws relating to children with special needs, and the identification and referral process. Observation of children will be required. NR

CD 140
CURRICULUM AND
STRATEGIES FOR CHILDREN
WITH SPECIAL NEEDS
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: CD 101, 105, 107, 110, ENG 200, 340
Covers curriculum and intervention strategies for working with children with special needs in partnership with their families. Focuses on the use of observation and assessment in meeting the individualized needs of children in inclusive and natural environments. Includes the role of the teacher as a professional working with families, collaboration with interdisciplinary teams, and cultural competence. NR

CD 250
GARDENING WITH YOUNG
CHILDREN
1 Unit; 1 hour lecture; 1 hour lab
Basic skills and strategies for developing and maintaining gardens with young children, including garden site development, plant selection, developmentally appropriate activities for children, ideas for funding and maintaining school gardens, and tips for working with volunteer helpers. NR

Chinese

CHI 1
ELEMENTARY CHINESE
5 Units; 5 hours lecture
Transfers: CSU, UC
Corequisite: CHI 901
Recommended Preparation: College-level reading ability
Designed to develop the fundamentals of communicative competence in daily spoken Chinese. Emphasis is on reading and writing skills, as well as fundamental aspects of culture. Equivalent to two years high school Chinese. NR

CHI 2
ELEMENTARY CHINESE
5 Units; 5 hours lecture
Transfers: CSU, UC
Prerequisite: CHI 1 or two years of high school Chinese
Corequisite: CHI 902
Designed to further the fundamentals of communicative competence in daily spoken Chinese. Although the focus remains on listening comprehension and speaking, reading and writing skills will be expanded. This course continues the familiarization with customs and cultural achievements begun in the previous semester. NR

CHI 3
INTERMEDIATE CHINESE
5 Units; 5 hours lecture
Transfers: CSU, UC
Prerequisite: CHI 2 or three years of high school Chinese
Corequisite: CHI 903
Intermediate level course focuses on fluency in reading, writing, speaking, and listening. Continues the study of Chinese cultures. NR

CHI 4
INTERMEDIATE CHINESE
5 Units; 5 hours lecture
Transfers: CSU, UC
Prerequisite: CHI 3 or four years of high school Chinese
Corequisite: CHI 904
Emphasizes fluency in speaking, reading, writing, and comprehension of Chinese. Includes selected readings and discussions from the basic four geNerations in Chinese and Chinese-American literature, culture, and customs. NR

CHI 21
INTRODUCTION TO CHINESE
CULTURE AND INFLUENCE IN
THE U.S.
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: College-level reading ability
Provides a brief overview in English of the historical contours of Chinese culture. Areas of study include the present implications of the five thousand-year-long history, developmental imbalances as a consequence of geographical and communication barriers, the integrative power of the written language, the stability of the family system, and the tension between tradition and modernity. No prior study of the Chinese language or culture is required. NR

CHI 901
CHINESE LANGUAGE LAB
0.25 Unit; 1 hour learning center
Corequisite: CHI 1
Requires concurrent enrollment in Chinese 1. Enhances and provides practice in skills learned in Chinese 1 course. NR

CHI 902
CHINESE LANGUAGE LAB
0.25 Unit; 1 hour learning center
Corequisite: CHI 2
Requires concurrent enrollment in Chinese 2. Enhances and provides practice in skills learned in Chinese 2 course. NR
Cinema, Television, Radio

CTVR 1
MASS MEDIA AND SOCIETY
3 Units; 3 hours lecture
Transfers: CSU, UC
A study of mass media and media technology as they apply to society. Includes a study of media functions, responsibilities, practices, and influences, as well as a study of media law, ethics, history, development, and potential for the future. The course is designed to increase student awareness of the impact of mass media in shaping society. Also listed as JRN 1. Credit given in either area, not both. NR

CTVR 2
HISTORY AND APPRECIATION OF TELEVISION BROADCASTING
3 Units; 3 hours lecture
Transfers: CSU, UC
Evaluation of television broadcasting as a medium of mass communication through exploration of its history, creative techniques, and relationship to society. Students will explore the historical development of television and analyze major works (formerly CTVR 102). NR

CTVR 3
THE HISTORY AND APPRECIATION OF AMERICAN CINEMA
3 Units; 3 hours lecture
Transfers: CSU, UC
Evaluation of American Cinema as an art form and a medium of mass communication through exploration of its history, literature, creative techniques, and relationship to society. Students will view and critique outstanding films from different eras of cinema's history. NR

CTVR 5
HISTORY AND APPRECIATION OF INTERNATIONAL CINEMA
3 Units; 3 hours lecture
Transfers: CSU, UC
Evaluation of International Cinema as an art form and cultural force through exploration of its history, techniques, and relationship to society. Students will view and critique outstanding examples of international cinema including genre from European, Latin, and Asian origins. NR

CTVR 6
WOMEN IN CINEMA AND TELEVISION
3 Units; 3 hours lecture
Transfers: CSU, UC
A historical perspective on the role of women in film. Examines political, economic, and philosophical highlights of the work of women in front of and behind the camera. Includes various genres and analysis of the societal impact of these films. Students will view and evaluate a large cross-section of films. NR

CTVR 7
CROSS CULTURAL CINEMA
3 Units; 3 hours lecture
Transfers: CSU, UC
Perspectives of underrepresented groups in US films. Examines political, economic, and philosophical highlights of their work in front of and behind the camera. Includes various genres and analysis of the societal impact of these films. Students will view and evaluate a large cross-section of films. NR

CTVR 8
SCRIPTWRITING II
3 Units; 3 hours lecture
Transfers: CSU, UC
Emphasizes the theories, formats, practices, and organization in writing scripts for television broadcasting and film production. Includes character development, the rewrite, dialogue, format, story and structure. Student work will be considered for production by film production courses. NR

CTVR 9
TELEVISION AND FILM DIRECTING
3 Units; 3 hours lecture
Transfers: CSU, UC
Provides students with training in the elements of directing for film and television. Includes blocking and directing talent and cameras. Post-production elements also covered. NR
CTVR 100
INTRODUCTION TO CINEMA, TELEVISION, AND RADIO
3 Units; 3 hours lecture
Transfers: CSU
Exploration of the history and organization of the radio, TV, and film industry. Provides an overview of the technologies and organizational structure of the industry with emphasis on career opportunities in radio, TV, and film. NR

CTVR 101
VIDEO PRODUCTION BASICS
3 Units; 3 hours lecture; 1 hour lab
Transfers: CSU
Introduction to video production including camera, lighting, and editing. Develop an understanding of video technology and vocabulary. Learn technique and application of video tools such as cameras, lights, audio, and non-linear editing. Demonstrate understanding of aesthetic theory by applying concepts to student productions. NR

CTVR 104
COLD READING AND INTERVIEW TECHNIQUES
3 Units; 3 hours lecture
Transfers: CSU
Training for cold reading and interviewing for Industry Talent Agencies, Casting Directors for Film, Television and Radio and Studio and Network executives. NR

CTVR 106
VIDEO JOURNALISM
3 Units; 2 hours lecture; 4 hours lab
Transfers: CSU
Recommended Preparation: JRN 2 and CTVR 101
Incorporates print and broadcast techniques to produce multimedia pieces for the web, tablets and emerging platforms with a focus on video journalism. Topics include multimedia storytelling that incorporates shooting and editing video, recording and editing sound, writing, and still photographs. An emphasis will be placed on journalistic, documentary-style video storytelling for the news media. Also listed as JRN 108. Credit given in either area, not both. NR

CTVR 108
INTRO TO PODCASTING AND AUDIO STORYTELLING
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Recommended Preparation: JRN 2 or CTVR 111
Introduction to all aspects of audio storytelling and podcasting. Students will produce content in the form of podcasts, live and pre-recorded talk shows, radio documentaries, newscasts, broadcast news spots, and emerging formats. Basic writing for broadcast, audio storytelling and editing will be covered. Ethical and legal aspects of broadcast communication and radio journalism are also covered. An emphasis will be placed on producing content for public radio. Work will be produced for distribution on campus news media outlets. Also listed as JRN 108. Credit given in either area, not both. NR

CTVR 109
AUDIO PRODUCTION
3 Units; 3 hours lecture; 1 hour lab
Transfers: CSU
Emphasizes the basic principles and techniques of acquiring, developing, and producing material for various audio applications including: radio, Internet, television, and film audio production. NR

CTVR 110
AUDIO AND SOUND DESIGN FOR TELEVISION AND FILM
3 Units; 3 hours lecture; 1 hour lab
Transfers: CSU
Prerequisite: CTVR 101
An advanced course in audio-production and sound design techniques used for radio, television, film, and new media. Course offers students hands-on experience using digital audio equipment. Applications and techniques will be discussed and demonstrated in the areas of recording, mixing, effects, and mastering. Audio terminology and current equipment technology will be applied to pre-production, production, and post-production. NR

CTVR 113
RADIO BROADCASTING
3 Units; 3 hours lecture; 1 hour lab
Transfers: CSU
Prerequisite: Completion of or concurrent enrollment in CTVR 110
Explore the basic elements of radio broadcasting. Areas include station organization, music and talk programming, formats, promotions, sales, announcing, and FCC regulations. Prepares students for advanced course and participation in actual on-air experiences at KSBR and OC Rock Radio. NR

CTVR 114
RADIO STATION ACTIVITIES
2 Units; 2 hours lecture; 1 hour lab
Transfers: CSU
Prerequisite: CTVR 110 and 113
Provides the student with regular and continuing experience in the operation of the college radio station, KSBR-FM. Students may elect roles in the radio operation involving on-air announcing, special production, programming, and news and public affairs. NR

CTVR 115
ADVANCED RADIO PERFORMANCE AND STUDIO OPERATIONS
2 Units; 2 hours lecture; 1 hour lab
Transfers: CSU
Prerequisite: CTVR 113
Provides students with advanced practical instruction in broadcast and internet radio performance, regulations, studio equipment, and software. Students will have opportunity to hold live and recorded air shifts on the college radio stations. NR

CTVR 124
TELEVISION PRODUCTION I
3 Units; 3 hours lecture; 1 hour lab
Transfers: CSU
Prerequisite: CTVR 101
A hands-on course in producing, directing, and shooting television programs. Extensive studio experience is provided through 3-camera shooting, using all crew positions. Course also covers field production. Projects will be broadcast on Cox Channel 39. NR
CTVR 125
TELEVISION PRODUCTION II
3 Units; 3 hours lecture; 1 hour lab
Transfers: CSU
Prerequisite: CTVR 124
An advanced course emphasizing 3-camera studio and single-camera field production. Students will produce a variety of professional-level television shows. NR

CTVR 128
TELEVISION AND RADIO NEWS
3 Units; 3 hours lecture; 1 hour lab
Transfers: CSU
Prerequisite: CTVR 101
Designed to acquaint students with the fundamental skills for gathering, writing, and producing news for broadcast media. Includes anchoring, writing, reporting, and producing news for non-print media. NR

CTVR 129
DOCUMENTARY PRODUCTION
3 Units; 3 hours lecture; 1 hour lab
Transfers: CSU
Prerequisite: CTVR 101
A hands-on production course focusing on documentary projects. Students will explore various styles of documentaries and produce documentary films. NR

CTVR 138
ADVERTISING
3 Units; 3 hours lecture
Transfers: CSU
Contemporary advertising for profit and non-profit organizations. Examines ethics, strategies, design approaches, electronic applications, and media selection. Elements of good copy, layout, and production of both print and electronic media, including email, e-marketing, e-retailing, web sites, and social media will be discussed. Also listed as BUS 138. Credit given in either area, not both. NR

CTVR 140
TELEVISION AND FILM SCRIPTWRITING II
3 Units; 3 hours lecture; 1 hour lab
Transfers: CSU
Prerequisite: CTVR 40
Advanced level script writing from initial concept to final product including character development, 3-act story structure, dialogue and narrative. Student work will be considered for production. NR

CTVR 151
NON-LINEAR EDITING I
3 Units; 3 hours lecture; 1 hour lab
Transfers: CSU
Prerequisite: CTVR 151
Introduction to the aesthetics and physical elements of editing on a digital non-linear system. Trains editors using Final Cut Pro. Students will also analyze different styles of editing. NR

CTVR 152
NON-LINEAR EDITING II
3 Units; 3 hours lecture; 1 hour lab
Prerequisite: CTVR 151
Recommended Preparation: CTVR 151
Using state-of-the-art special effects software, including After Effects, and Apple Motion, students will learn to combine graphic images with digital video projects, create key-frame 2D animations, text effects, and use visual effects filters. NR

CTVR 153
DIGITAL SPECIAL EFFECTS
3 Units; 3 hours lecture; 1 hour lab
Prerequisite: CTVR 151
Recommended Preparation: CTVR 151
Introduction to creating digital special effects in the non-linear edit suite. Using state-of-the-art special effects software, including After Effects, and Apple Motion, students will learn to combine graphic images with digital video projects, create key-frame 2D animations, text effects, and use visual effects filters. NR

CTVR 191
VOICE-OVER AND ANNOUNCING
3 Units; 3 hours lecture; 1 hour lab
Transfers: CSU
Prerequisite: CTVR 101
Develop effective radio and television performance techniques stressing skills in narration, dubbing, and voice-over for industry, education, entertainment and commercials. NR

CTVR 233
FILM PRODUCTION III
3 Units; 3 hours lecture; 1 hour lab
Prerequisite: CTVR 32
Recommended Preparation: CTVR 42, 140, 262, 264
Class is based around learning professional filmmaking tools including RED Digital Cinema and an advanced filmic production. The script and key crew positions will be determined by instructor. Students will assist in the preproduction, production and post-production of the picture. Students are expected to be fully capable of fulfilling crew positions as assigned. NR

CTVR 251
NON-LINEAR EDITING II
3 Units; 3 hours lecture; 1 hour lab
Prerequisite: CTVR 151
Using lecture, practical demonstrations, and lab projects, the student will learn advanced computer-based non-linear post-production techniques. Emphasis will be placed on image manipulation, creation and importing of digital animations, audio enhancement, and image output for various formats. NR

CTVR 261
PRODUCING VIDEO FOR THE WEB – BOOT CAMP
1 Unit; 1 hour lecture
Prerequisite: Completion of or concurrent enrollment in CTVR 101
This hands-on course uses a professional approach to producing and directing web video content, including extensive market research, preparing and creating webisode ideas, producing a webisode "pilot," and maximizing distribution. This course will teach you how to market your video to an online audience. NR

CTVR 262
PRODUCTION MANAGEMENT
3 Units; 3 hours lecture
Defines and examines the role of the producer, production manager, coordinator and assistant director through the pre-production, production, and post production phases. Emphasis is placed on script breakdown, crew selection and hiring practices, industry work rules, production procedures, safety requirements and legal issues. NR
Communication Arts
(SEE CINEMA, TELEVISION, AND RADIO)

Computer and Information Management
Includes the following prefixes: CIM, CIMA, CIMN, CIMP, CIMS, & CIMW

CTVR 264
CINEMATOGRAPHY
2 Units; 1.5 hours lecture; 1.5 hours lab
Prerequisite: CTVR 101
Introduces the theory and practice of cinematography. Emphasis on exposure, shutter speed, ISO ratings, and filters. Students will learn the art and science of lighting for the camera. The proper set-up, identification, uses, and effects of lighting needed to create dramatic and visually appealing images are used to learn the relationship of lighting to the camera, environment, such as a radio station, television production company, talent agency, or film studio. Development of a job marketing strategy and effective interview skills. NR

CTVR 291
ACTING FOR THE CAMERA II – CREATING A CHARACTER
3 Units; 3 hours lecture; 1 hour lab
Prerequisite: CTVR 290
An on-camera process class that develops technical skills and acting skills specific to the mediums of film and television. Using Meisner and Hagen techniques to create the reality of doing while working on immediacy, conditioning forces, character action and particularization. On set discipline, protocol and the focal length of performance will also be explored. Material will be suited to the strengths and experience of the individual student. NR

CTVR 266
SCRIPT SUPERVISING FOR FILM AND TELEVISION
3 Units; 3 hours lecture; 1 hour lab
Introduces the theory and practice of script supervising for film and television production. Includes techniques of continuity, timing, script breakdown, edit logs and editing notes for feature films, television shows, commercials, shorts, infomercials and documentaries. NR

CTVR 268
EDITOR’S BOOT CAMP
1 Unit; 1 hour lecture
An intensive workshop designed to train editors using industry standard applications. Learn how to become an editor, capture video, import and export media, manage projects, manipulate sound and moving pictures on a non-linear editing system including titling and filters. NR

CTVR 280
CINEMA/TELEVISION/RADIO EMPLOYMENT SKILLS
3 Units; 3 hours lecture
Recommended Preparation: CTVR 31 or 110 or 124 or 290 or 291
Training for job search and on the job skills needed to work successfully in any professional setting. Develop job skills in a professional working environment, such as a radio station, television production company, talent agency, or film studio. Development of a job marketing strategy and effective interview skills. NR

CTVR 290
ACTING FOR THE CAMERA I
3 Units; 3 hours lecture; 1 hour lab
An on-camera process class that develops technical and performance skills specific to film and television. NR

CIM 10
INTRODUCTION TO INFORMATION SYSTEMS
3 Units; 3 hours lecture
Transfers: CSU, UC
An introductory concepts and applications course. Emphasis on hardware and software analysis and design of computers and other types of information systems used for creating, maintaining, retrieving, printing, and communicating computer files. Exercises using word processing, spreadsheet, database, graphics, and communications software and an introduction to the Internet. Provides the experience necessary to recognize the major capabilities available in each software application and how the software applications work together in an integrated information systems environment. NR

CIM 112
MICROSOFT OFFICE
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Provides a computer exploration of Microsoft Office. Extensive activities are provided using word processing, database management, spreadsheet, and presentation software. Focus includes creating, maintaining, and querying a database management system and creating, editing, formatting, and printing text and spreadsheet documents. NR

CIM 120
COMPUTER LITERACY
1.5 Units; 1.5 hours lecture
Transfers: CSU
Provides students with basic knowledge of how computers are used in today’s world. Focuses on using the computer as a tool to manage information, access the Internet, telecommunicate to and with others, and enhance life-long learning in a technologically-changing society. Exercises in using word processing, spreadsheet, database, graphics, and communications software. No computer experience is required. NR
CIM 121A
KEYBOARDING FOR COMPUTERS: BEGINNING
1.5 Units; 1.5 hours lecture; 0.5 hours lab
Transfers: CSU
Recommended Preparation: CIM 121A
Designed to introduce touch keyboarding of letter, number, and symbol keys on the computer. For business and/or personal use. Introduces basic computer operation; no previous computer or typewriting experience required. NR

CIM 121B
KEYBOARDING FOR COMPUTERS: INTERMEDIATE
1.5 Units; 1.5 hours lecture; 0.5 hours lab
Transfers: CSU
Recommended Preparation: CIM 121A
Builds keyboarding speed and accuracy. Introduces word processing command keys and formats to produce basic tables, business letters, memos, and reports. NR

CIM 121C
KEYBOARDING FOR COMPUTERS: ADVANCED
1.5 Units; 1.5 hours lecture; 0.5 hours lab
Transfers: CSU
Recommended Preparation: CIM 121B
Improves keyboarding speed and accuracy. Expands use of word processing command keys and format features to produce complex memorandums, letters, tables, bound and unbound reports, and job application documents. NR

CIM 274A
WEB DIGITAL IMAGERY: PHOTOSHOP – BEGINNING
1.5 Units; 1.5 hours lecture; 1 hour lab
Transfers: CSU
Recommended Preparation: CIM 274A
Provides training on the use of computer-based word processing software. Students will utilize program features to create, edit, and format documents for personal and business use. NR

CIMA 102
WORD PROCESSING: WORD
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Recommended Preparation: CIM 214
Provides training on the use of computer-based word processing software. Students will utilize program features to create, edit, and format documents for personal and business use. NR

CIMA 102A
WORD PROCESSING: WORD–BEGINNING
1.5 Units; 1 hour lecture; 1.5 hours lab
Transfers: CSU
Recommended Preparation: CIM 214A
Provides training on the use of computer-based word processing software. Students will utilize program features to create, edit, and format documents for personal and business use. NR

CIMA 102B
WORD PROCESSING: WORD–ADVANCED
1.5 Units; 1 hour lecture; 1.5 hours lab
Transfers: CSU
Recommended Preparation: CIM 214B
Provides training on the use of computer-based word processing software. Students will utilize program features to create, edit, and format documents for personal and business use. NR

CIMA 104
SPREADSHEETS: EXCEL
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Provides training on the use of computer-based spreadsheet software for business applications. Students will create a variety of presentation formats. NR

CIMA 104A
SPREADSHEETS: EXCEL – BEGINNING
1.5 Units; 1 hour lecture; 1.5 hours lab
Transfers: CSU
Entry-level course provides beginning information and training in the use of computer-based spreadsheet software for business applications. Formerly CIM 216A. NR

CIMA 104B
SPREADSHEETS: EXCEL – INTERMEDIATE
1.5 Units; 1 hour lecture; 1.5 hours lab
Transfers: CSU
Recommended Preparation: CIM 104A
Provides training on the use of computer-based spreadsheet software for business applications. Formerly CIM 216B. NR

CIMA 106
DATABASE: ACCESS
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Provides training on the use of computer-based database management software to generate applications for solving business problems. Emphasis is on concepts and procedures for designing databases and producing reports. Database objects such as tables, forms, queries, and reports will be created. Formerly CIM 218. NR

CIMA 108
BUSINESS PRESENTATIONS: POWERPOINT
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Provides information and training in the use of computer-based presentation software. Students will create a variety of presentation formats. Formerly CIM 230. NR
CIMA 202
ADVANCED WORD PROCESSING: WORD
3 Units; 3 hours lecture; 1 hour lab

Recommended Preparation: CIMA 102 or 283E
Develops competencies in the advanced topics of word processing software. Students will learn to create reusable content and build documents using reusable content; revise documents using markup tools; create, apply, and modify table styles; sort tables; work with nested tables; use formula fields in tables; create, manage and protect forms; work with long documents; create index, bookmarks, table of contents, and table of figures; use linking and embedding objects; create and edit macros; and use advanced mail merge features. NR

CIMA 204
ADVANCED SPREADSHEETS: EXCEL
3 Units; 3 hours lecture; 1 hour lab

Recommended Preparation: CIMA 104 or CIMA 283F
Develops competencies in the advanced topics of spreadsheet software. Create PivotTables and PivotCharts. Use advanced specialized math, statistical, logical, financial and lookup functions. Create macros, templates and styles and prepare workbooks for distribution. Use collaboration tools, data analysis, solver, and scenario features. Audit worksheets. NR

CIMA 206
ADVANCED DATABASE: ACCESS
3 Units; 3 hours lecture; 1 hour lab

Recommended Preparation: CIMA 106 or CIMA 283H
Develops competencies in the advanced topics of database software. Learn to validate data, normalize data tables, use analysis and design tools, and export and import data. Create advanced action, parameter, append, delete and crosstab queries. Perform data mining with PivotTables. Create advanced forms and reports. Create macros and write SQL statements. Encrypt/decrypt databases and improve database performance. NR

CIMA 212
MANAGING PROJECTS WITH MICROSOFT PROJECT
3 Units; 3 hours lecture; 0.5 hours lab

Learn to create a complete project schedule with tasks and task relationships. Edit and organize a project, assign resources to the tasks, and use Project views to get information. Learn to sort, find, and filter tasks or resources in a project; use views, tables, details, groups, and filters to view project information; create and edit views, tables, and filters; shorten the critical path of the project; manage the project’s resources; manage and view cost information; format and print views, Gantt charts, calendars, and reports; and track the completion of tasks in the project (formerly CIM 221). NR

CIMA 223A
COMPUTERIZED ACCOUNTING: QUICKBOOKS—BEGINNING
1.5 Units; 1.5 hours lecture; 0.5 hours lab

Recommended Preparation: CIMA 100A
Provides background and training in the use of QuickBooks software in the Windows environment. Business accounting concepts are set up to handle chart of accounts, merchandise, customers and receivables, vendors and payables, banking, inventory, and reports (formerly CIM 223A). NR

CIMA 223B
COMPUTERIZED ACCOUNTING: QUICKBOOKS—ADVANCED
1.5 Units; 1.5 hours lecture; 0.5 hours lab

Recommended Preparation: CIMA 223A
Provides training in advanced business accounting procedures in QuickBooks using the Windows environment. Includes inventory setup, employee and payroll setup, sales tax setup, estimates, time tracking, pass through expenses, and adjustment and year-end procedures (formerly CIM 223B). NR

CIMA 283A
OFFICE SKILLS—OFFICE PROCEDURES
2.5 Units; 2.5 hours lecture
Prepares students to work efficiently in today’s offices. Topics include characteristics of a successful employee, organization and time management, written, oral, and interoffice communications, records management, planning meetings, arranging for business travel, career advancement, and business etiquette (formerly CIM 213A). NR

CIMA 283B
OFFICE SKILLS—KEYBOARDING
0.5 Unit; 0.5 hours lecture; 1 hour lab

Designed to introduce touch keyboarding of letter, number, and symbol keys on the computer. Introduces basic computer operation. No previous computer or typewriting experience required (formerly CIM 213B). NR

CIMA 283D
OFFICE SKILLS—WINDOWS
0.5 Unit; 0.5 hours lecture; 1 hour lab

Entry-level course introduces the fundamentals of the Windows operating system. Topics include the desktop, manipulating Windows, using Help, launching applications, managing files and folders with Explorer and My Computer, and handling disk maintenance (formerly CIM 213D). NR

CIMA 283E
OFFICE SKILLS—WORD PROCESSING (WORD)
0.5 Unit; 0.5 hours lecture; 1 hour lab

Entry-level course provides instruction on the use of computer-based word processing software and/or applications. The functions of creating, editing, and manipulating documents of varying sophistication will be introduced (formerly CIM 213E). NR

CIMA 283F
OFFICE SKILLS—SPREADSHEETS (EXCEL)
0.5 Unit; 0.5 hours lecture; 1 hour lab

Entry-level course provides beginning information and training in the use of computer-based spreadsheet software for business applications. Spreadsheet worksheets will be produced for a variety of applications (formerly CIM 213F). NR
CIMA 283G
OFFICE SKILLS–DESKTOP PRESENTATION FOR BUS (POWERPOINT)
0.5 Unit; 0.5 hours lecture; 1 hour lab
Entry-level course to provide beginning information and training in the use of desktop presentation software for business applications. Students create, modify, and enhance desktop presentations (formerly CIM 213G). NR

CIMA 283H
OFFICE SKILLS–DATABASE (ACCESS)
0.5 Unit; 0.5 hours lecture; 1 hour lab
Entry-level course provides beginning information and training in the use of database software for business applications. Database queries, tables, and forms will be produced for a variety of applications (formerly CIM 213H). NR

CIMA 283J
OFFICE SKILLS–DESKTOP PUBLISHING (PUBLISHER)
0.5 Unit; 0.5 hours lecture; 1 hour lab
Entry-level course designed to provide beginning information and training in the use of desktop publishing software for business applications. Desktop published examples will be produced for a variety of applications (formerly CIM 213J). NR

CIMA 283K
OFFICE SKILLS–BUSINESS EMAIL (OUTLOOK)
0.5 Unit; 0.5 hours lecture; 1 hour lab
Entry-level course to provide beginning information and training in the use of email software. Covers sending and receiving e-mail messages, managing contacts, and business email etiquette. Provides instruction in using Calendar for scheduling appointments, planning meetings, scheduling events, and tasks feature. NR

CIMA 288
DATABASE REPORTING
3.5 Units; 3 hours lecture; 1.5 hours lab
Provides students with the knowledge and skills to turn data into information through use of business intelligence tools such as Crystal Reports and Microsoft SQL Reporting Services. Students will create desktop reports using local databases and web-based enterprise level reports from relation data engines such as SQL Server (formerly CIM 288). NR

CIMN 100
COMPUTER OPERATING SYSTEMS: WINDOWS
3 Units; 3 hours lecture
Transfers: CSU
Skills include manipulating files and folders in Windows's scheme of file management. Competency will be gained using Windows supplied programs to create, save, and print files and customize the desktop. Ability to manage computer security, Internet Explorer, and Live Essentials, which provides interaction via the web, will be covered. Expertise will be gained in ability to use media and graphics manipulation tools such as Media Center and Movie Maker. Setting up and using a small network to share information will be introduced. Students will learn to maintain and optimize their computer's performance, backing up files, installing and managing printers and hardware. End-user techniques for diagnostic and trouble-shooting procedures will be discussed (formerly CIM 174A). NR

CIMN 100A
COMPUTER OPERATING SYSTEMS: WINDOWS–BEGINNING
1.5 Units; 1.5 hours lecture
Transfers: CSU
Develop skills including manipulating files and folders utilizing Windows file management features. Competency will be gained using Windows supplied programs to create, save, and print files. The ability to customize file and folder management and the desktop will be covered. Ability to manage computer security will be discussed. In addition, students will develop proficiency in managing and using Internet Explorer as well as Live Essentials, which provides mail, news and messages. End-user techniques for diagnostic and trouble-shooting procedures will be introduced (formerly CIM 174A). NR

CIMN 100B
COMPUTER OPERATING SYSTEMS: WINDOWS–INTERMEDIATE
1.5 Units; 1.5 hours lecture
Recommended Preparation: CIMN 100A
Use Live Messenger for instant messaging and blogging. Use Live Movie Maker, Live Photo Gallery, and Media Center media and graphics manipulation tools. Set up and use a small network and mobility center to share information. Students will learn to maintain and optimize their computer’s performance, add and remove programs, and back up files. Installing and managing printers and hardware will be introduced. End-user techniques for diagnostic and trouble-shooting procedures will be discussed (formerly CIM 174B). NR

CIMN 200
INTRODUCTION TO NETWORKING
3 Units; 3 hours lecture
Transfers: CSU
Prepares students for CompTIA's Network+ exams. Focuses on configuring, managing, and troubleshooting the elements of a basic network infrastructure (formerly CIM 251). NR

CIMN 210
NETWORKING ESSENTIALS AND TECHNOLOGIES
3.5 Units; 3 hours lecture; 1 hour lab
Provides an overview of the networked environment. Covers networking concepts, protocols, and terminology. Students will learn how to make infrastructure components and set up workstations for LAN operability and WAN interoperability. LAN and WAN networks will be designed and implemented using hubs, switches, and routers. Basic Cisco switch and router programming and trouble-shooting strategies are included (formerly CIM 252). NR

CIMN 220A
MCSE CERTIFICATION EXAM PREP I
3 Units; 2.5 hours lecture; 1.5 hours lab
Transfers: CSU

CIMN 220B
MCSE CERTIFICATION EXAM PREP II
3 Units; 2.5 hours lecture; 1.5 hours lab
MCSE Exam 70-411. Covers Administering Windows Server 2012 through simulations, practice tests, and feedback (formerly CIM 292B). NR

CIMN 220C
MCSE CERTIFICATION EXAM PREP III
3 Units; 2.5 hours lecture; 1.5 hours lab
MCSE Exam 70-412. Covers Configuring Advanced Windows Server 2012 Services through simulations, practice tests, and feedback (formerly CIM 292C). NR

CIMN 220D
MCSE CERTIFICATION EXAM PREP IV
3 Units; 2.5 hours lecture; 1.5 hours lab
MCSE Exam 70-413. Covers Designing and Implementing a Server Infrastructure through simulations, practice tests, and feedback (formerly CIM 292D). NR
CIMN 220E
MCSE CERTIFICATION EXAM PREP V
3 Units; 2.5 hours lecture; 1.5 hours lab
MCSE Exam 70-414. Covers Implementing an Advanced Server Infrastructure through simulations, practice tests, and feedback (formerly CIM 292E). NR

CIMN 220F
MCITP CERTIFICATION EXAM PREP VI
3 Units; 2.5 hours lecture; 1.5 hours lab
MCITP Exam 70-680. Covers Installing, Configuring, and Administering Windows 7 through simulations, practice tests, and feedback (formerly CIM 292F). NR

CIMN 230
COMPUTER OPERATING SYSTEMS: UNIX/LINUX
3 Units; 3 hours lecture
Provides an overview of operating system concepts. Presents implementation through the use of UNIX/Linux commands. Operating system concepts such as file systems, variables, and permissions are discussed. Students use a computer system to execute problem-solving exercises using UNIX/Linux commands, both in the shell and in the GUI (Graphical User Interface). Students learn and use commands that are necessary for maintaining a UNIX/Linux workstation including file and directory management commands, editors, pipes, filters and redirection commands, permissions, processes and elementary shell scripting (formerly CIM 172). NR

CIMN 240
FUNDAMENTAL UNIX/LINUX SYSTEM ADMINISTRATION
3 Units; 3 hours lecture
Recommended Preparation: CIMN 230
Explore the fundamental responsibilities of a UNIX/Linux system administrator. Provides a network administrator an in-depth look at how to perform day-to-day administrative and maintenance tasks on a UNIX/Linux-based network. Topics include installing UNIX/Linux, configuring X windows and common system hardware; creating and maintaining the file system; boot process; administering user and group accounts; integration of a workstation with an existing network; administering printing subsystems; system log responsibilities; backing up file systems; configuring the kernel; basic performance, memory, and process management; and basic troubleshooting. Includes creation of shell scripts to automate system administration tasks (formerly CIM 256). NR

CIMN 250
NETWORK AND SECURITY ADMINISTRATION USING UNIX/LINUX
3 Units; 3 hours lecture
Recommended Preparation: CIMN 240
Guides students through the fundamental responsibilities of UNIX/Linux system administrator in building and maintaining an internal LAN using multipurpose servers. Topics will cover TCP/IP administration; installing and maintaining SMB protocols; and installing and maintaining basic server applications such as sendmail, DHCP, and DNS. Includes introductions to database backends, network security, developing a security policy, file and file system security, password security, service-based security, and firewalls. The student will learn to set up a Unix/Linux internal server and configure common network services and security at a basic level (formerly CIM 257). NR

CIMN 260
INTERCONNECTING CISCO NETWORK DEVICES
3 Units; 3 hours lecture
Qualifies the student to take the Cisco CCNA exam. Provides a firm foundation of Cisco's IOS, routing and protocols, layered communications, and WAN strategies (formerly CIM 287). NR

CIMP 5
BUSINESS PROGRAMMING I: VISUAL BASIC
3.5 Units; 3 hours lecture; 1.5 hours lab
Transfers: CSU, UC
Provides an introduction to the fundamentals of event driven, object-oriented programming using Microsoft Visual Basic. Emphasis is on business application development. Topics include graphical design of Windows, programming event procedures, general procedures, and application development with multiple windows. Students will create complete applications in addition to weekly exercises in visual programming (formerly CIM 2A). NR

CIMP 7A
BUSINESS PROGRAMMING: JAVA–BEGINNING
3 Units; 3 hours lecture
Transfers: CSU, UC
Java language and object-oriented programming will be utilized to develop business applications. Discussion topics include: the significance of Java as an object-oriented programming tool; classes and methods, input and output, arrays, inheritance, information hiding, polymorphism, encapsulation, primitive types, flow control, interfaces, packages, and the Java API (formerly CIM 7A). NR

CIMP 7B
BUSINESS PROGRAMMING: JAVA–ADVANCED
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: CIMP 7A
An in-depth study of advanced Java programming concepts. Provides skill in advanced programming, sockets, exception handling, file handling, networking, dynamic data structures, HTML, threads, multithreading, Swing, container classes, GUI text, input/output (IO), Abstract Windowing Toolkit (AWT), events, listeners, graphics, Applications Programmer Interface (API), utility package, Object-Oriented Programming (OOP), inheritance, information handling and recursion (formerly CIM 7B). NR

CIMP 115
BUSINESS PROGRAMMING–C#
3.5 Units; 3 hours lecture; 1.5 hours lab
Transfers: CSU
Emphasizes C# and object-oriented programming for software development of business applications. Includes familiarity with Visual Studio.NET as a development environment and introduction to all the .NET languages supported by the .NET framework. Introduces C# as an object-oriented language that makes extensive use of all object-oriented programming concepts such as inheritance, polymorphism, and overloading. Also includes class design and use, strict datatyping, method construction and use, and other programming concepts (formerly CIM 287). NR
CIMP 210
MS SQL SERVER BUSINESS INTELLIGENCE DEV/T-SQL
3 Units; 3 hours lecture
Transact-SQL allows developers to write and invoke complex stored procedures, integration packages, and reports. Students will learn how to create and write queries, functions and triggers and also retrieve and maintain data using Transact-SQL (formerly CIM 219). NR

CIMP 220
ANDROID MOBILE APPS – BEGINNER
3.5 Units; 3 hours lecture; 1.5 hours lab
Create mobile Android applications. Installing and using Android Studio and the Android sdk, using activities and intents, displaying notifications, creating rich user interfaces, mastering views and menus, managing data, working with sms and messaging api’s, using location-based services, packaging and publishing application to the Android market. NR

CIMP 222
ANDROID MOBILE APPS ADVANCED
3.5 Units; 3 hours lecture; 1.5 hours lab
Advanced Android topics focusing on the latest API and SDKs including multi-fragment user interfaces, action bar and tabbed navigation, animation and graphics, location services and sensors, data storage both local and JSON web services, media and camera integration. Students will develop using latest version of Java JRE with Android Studio. Emphasis on business applications including a final project to be deployed for publication. NR

CIMP 225
WINDOWS STORE APPS BEGINNING
3.5 Units; 3 hours lecture; 1.5 hours lab
Develop Windows Store applications using Visual Studio and C#/XAML/Java/HTML. Create UI, respond to user interaction, work with data and files, web and network services, manage user information, launch and resume apps, integrate devices, debugging, globalization, accessibility, packaging and deploying apps. NR

CIMP 230
INTRODUCTION TO COMPUTER AND VIDEO GAME DESIGN
3 Units; 3 hours lecture
Introduction to basic video game concepts and design: tools, languages, AI concepts, level design, storytelling, careers, relationship to technology (especially CPU/GPU), history and future. Tools examined: direct-IX, play and sound), OpenGL and game engines. Includes overview of scripting and programming languages used in game development. Introduction to mobile app game development. The evolution and future of game development is included. Theoretical concepts of game design, AI, storytelling, and level design will be demonstrated. Class will use a strategy video game to demonstrate concepts and theory. Includes discussion of effective individual and team play strategies. Virtual reality, mobile wireless gaming, immersion, and emotioneering will also be introduced (formerly CIM 286). NR

CIMP 235
IPHONE & IPAD PROGRAMMING BEGINNING
3.5 Units; 3 hours lecture; 1.5 hours lab
Application building for the iPhone or the iPad using the iOS Software Development Kit (SDK). Students will create, test, debug and manage their iOS apps. There is considerable focus on Objective-C, the language used to create these applications. In addition to the tools and the language, students explore the design patterns as recommended by Apple developers. NR

CIMP 240
MS SQL SERVER BUSINESS INTELLIGENCE DEV/T-SQL
3 Units; 3 hours lecture; 3 hours learning center
Transact-SQL allows developers to write ad hoc queries as well as to write and invoke complex stored procedures integration packages, and reports. Students will learn how to create and write queries, functions and triggers and also retrieve and maintain data using Transact-SQL. NR

CIMP 241
CLOUD COMPUTING FOR DEVELOPERS
3.5 Units; 3 hours lecture; 1.5 hours lab
Hands on fundamentals of cloud computing as it relates to IT professionals both in application development and systems management. Infrastructure as a Service (IaaS) and Platform as a Service (PaaS) will be investigated. Building and scaling virtual machines, deploying and managing saleable web sites, designing mobile service back ends, data services including SQL Database, plus storage services such as Table and Blob storage. This is tied together with App Services using message queues between web and worker roles. Development both locally in Visual Studio and directly in the cloud portal. NR

CIMS 200
INFORMATION SECURITY FUNDAMENTALS
3 Units; 3 hours lecture
Recommended Preparation: CIMP 230, 100 OR 100A/B, & 200
Provides fundamental knowledge for managing all aspects of an enterprise-wide security life cycle including: security policy development, authentication, encryption, securing operating systems and network infrastructure, firewall and intrusion detection technologies, intrusion prevention and incident response procedures (formerly CIM 279). NR

CIMS 230
SECURITY+
3 Units; 3 hours lecture
Provides a comprehensive overview of network security including authentication methods, common network attacks, safeguarding against attacks, remote access, email, the web, directory and file transfer, wireless data, various network devices and media, and proper use of perimeter topologies such as DMZs, Extranets, Intranets, cryptography basics, asymmetric and symmetric algorithms, and operational and organizational security. Geared for students pursuing CompTIA Security+ Certification (formerly CIM 284). NR

CIMS 240
INTRODUCTORY COMPUTER FORENSICS
3 Units; 3 hours lecture
Students will learn the skills necessary to launch and complete a successful computer investigation. Guides students through conducting a high-tech investigation, from acquiring digital evidence to reporting its findings. Students will learn how to set up a forensics lab, how to acquire the proper and necessary tools, and how to conduct the investigation and subsequent digital analysis. Features free downloads of the latest forensic software, so students can become familiar with the tools of the trade (formerly CIM 293). NR
CIMS 250
CYBERLAW
3 Units; 3 hours lecture
Helps students understand the legal and policy issues associated with the Internet. Tackling a full range of topics including copyright law, trademarks in e-commerce, online tax-related issues, cybercrimes, regulating online speech, and privacy protection. Topics studied through recent relevant cases, discussion questions and exercises (formerly CIM 294). NR

CIMW 100
WEB SITE DEVELOPMENT:HTML
3 Units; 3 hours lecture
Transfers: CSU
Use recommended web site design practices, HTML code, Java applets, JavaScript and multimedia (sound and video) to construct basic web pages/web sites. Publish web pages to a server using FTP software. Use Cascading Style Sheets (CSS) to format color, text and page layout. Create and use tables and forms styling them with CSS, and learn to handle form data. Discuss functions and job roles for a successful web project development, and e-commerce and web promotion. Examine the use and function of visual elements such as graphics and hyperlinks, multimedia, interactivity, Java applets, and JavaScript including variables, operators, if statements, event handling and form validation. Students will construct web sites that use multimedia features such as sounds, video, and Java applets (formerly CIM 271A). NR

CIMW 100A
WEB SITE DEVELOPMENT:HTML–BEGINNING
1.5 Units; 1.5 hours lecture
Transfers: CSU
Recommended Preparation: CIMN 100 or CIMN 100A/B
Utilize HTML code to construct basic web pages and web sites. Topics include text formatting commands, links, and email. Use CSS to configure color, text and page layout. Identify and use recommended Web site design practices. Use visual elements, graphics, hyperlinks, lists, columns, page layout and print styling in web pages and web sites, using CSS when appropriate. Identify and apply steps to publish web pages to a server using FTP software (formerly CIM 271A). NR

CIMW 100B
WEB SITE DEVELOPMENT:HTML–ADVANCED
1.5 Units; 1.5 hours lecture
Transfers: CSU
Recommended Preparation: CIMW 100A
Continuation of CIMW 100A. Introduces advanced concepts for creating web pages that enable the improved delivery of information over the Web. Topics include tables, forms and ability to style them with CSS and work with server-side processing. Identify skills, functions and job roles required for a successful web project development is covered. Use and function of multimedia and interactivity, Java applets, JavaScript scripts introduced. Overview of E-Commerce and web promotion. Introduction to JavaScript including the Document Object Model, use of variables, operators, if statements, event handling and form validation. Students will construct web sites that use multimedia features such as sounds, video, and Java applets (formerly CIM 271B). NR

CIMW 105
WEB DEVELOPMENT AND DB:INTRO SQL AND MYSQL
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: CIMW 100A
Introduction to databases, web server-side databases and the Structured Query Language (SQL). Course uses MySQL to create, manipulate, and query databases. Covers the fundamentals of a relational database, basic selection queries, sub-queries, multiple table queries, joins, aggregate calculations, updating data, MySQL database administration, data definition and manipulation, views, sorting, triggers, constraints, indexes and basic introduction to PL/SQL (formerly CIM 205A). NR

CIMW 110A
INTRO TO CREATING WEB PAGES I USING DREAMWEAVER & WP
1.5 Units; 1.5 hours lecture
Transfers: CSU
Recommended Preparation: CIMW 110A
An introduction to creating, publishing and testing documents on a web server. Students maintain both personal and business web sites consisting of web pages created in Dreamweaver. Dreamweaver will be used to demonstrate web site development framework, design elements, and design principles. Course will cover internet concepts, web site management, linking, FTP, HyperText Markup Language (HTML) specifications, typography, inserting graphics with text, intro to CSS, working with internal and external hyperlinks. Course provides an introduction to WordPress blogging and posting to discussion boards. Requires no previous Web design experience (formerly CIM 278A). NR

CIMW 110B
INTRO TO CREATING WEB PAGES II USING DREAMWEAVER & WP
1.5 Units; 1.5 hours lecture
Transfers: CSU
Recommended Preparation: CIMW 110A
An advanced course in creating web pages. Students will maintain an intermediate web site consisting of web pages created in Dreamweaver. Includes rollovers, navigation bars, Cascading Style Sheets (CSS), forms, JavaScript form validation, tables, inserting video, animation, sound, page layout, absolute positioning (AP) and other advanced HTML editing (formerly CIM 278B). NR
CIMW 115  
INTRO WEB DESIGN & DEVELOPMENT WEB PAGE CREATION DREAMWEAVER  
3 Units; 3 hours lecture  
Transfers: CSU  
Introduction to web design and development in creating web pages using modern tools such as Adobe Dreamweaver and Wordpress. Teaches basic introduction to HTML and CSS following World Wide Web Consortium (W3C) guidelines and validation. Provides an overview of FTP, internet, social implications, accessibility, and web security. Students will maintain a website on a World Wide Web (WWW) server consisting of HTML, advanced HTML elements such as links, tables, forms, intro JavaScript validation, object and frames, and basic CSS selectors. Using CSS students will configure layouts, fonts, colors and other properties. Includes website integration of Microsoft Word, graphics, video, and sound. Introduces basic web animation and video editing. NR

CIMW 207  
SOCIAL MEDIA & WEB FUNDAMENTALS  
1.5 Units; 1.5 hours lecture; 0.5 hours lab  
Overview of the historical and current aspects of the Internet, online communications, and social networking basics. Students are introduced to netiquette, 508 standards, electronic mail, discussion groups, video and non-video chat rooms, search techniques and tools, the World Wide Web, Internet browsers and add-ons for web browsers. Web page development, design, content and security issues are introduced (formerly CIM 227). NR

CIMW 220  
WEB AND MOBILE 3D/2D ANIMATION: ADOBE FLASH  
3 Units; 3 hours lecture; 1 hour lab  
Interactive animations of websites using Adobe FLASH. Course covers beginning and intermediate animation concepts to build web animation. Explores frame-by-frame animation, basic tweening, HTML publishing, symbol creation and sound compression. Integration of sound to achieve communication objectives on the web, and importing and modifying graphics and complex animations will be introduced (formerly CIM 264). NR

CIMW 240  
CSS (CASCADE STYLE SHEETS) & RW (RESPONSIVE WEB DESIGN)  
3 Units; 3 hours lecture  
Explores how to use Cascading Style Sheets (CSS) to take your HTML web pages to the next level. CSS provides the means to create desktop publishing and mechanisms for supporting multiple devices. Covers all basic CSS fundamentals including: page layout, positioning, text alignment, formatting, margins, borders, text-flow, background images, typography and CSS3 features (border radius, gradients, and text shadows). Discuss how to debug web pages using Dreamweaver and web browsers. Create mobile web pages using bulletproof page layouts, and apply CSS presentation to content with known structure and RWD (Responsive Web Design) concepts of Fluid Grid Layout, HTML5, and CSS3 media query (formerly CIM 272 and CIMW 240). NR

CIMW 245  
WEB DEVELOPMENT: PHP & CMS/WORDPRESS AND E-COMMERCE  
3 Units; 3 hours lecture  
Covers server-side web development using the PHP scripting language. Create dynamic server-side web pages. Topics include: PHP syntax, variables, HTML forms, super globals, arithmetic operations, numbers, strings, control structures, arrays, creating functions, XML, XML Styling Language (XSL), FTP, IDE setup and folders. Includes introduction to MySQL, PHP with MySQL, advanced PHP MySQL integration and PHP with client-side JavaScript/AJAX. Students will create and maintain PHP programs on a World Wide Web (WWW) server. Also includes introduction to Content Management Systems (CMS), Wordpress, Dreamweaver/Wordpress integration and E-Commerce (formerly CIM 225 and CIMW 245). NR

CIMW 250  
MICROSOFT ASP.NET–BEGINNING  
3.5 Units; 3 hours lecture; 1.5 hours lab  
Create Microsoft ASP.NET & MVC web applications that deliver dynamic content to the web by using Visual Studio.NET. Create and populate ASP.NET web forms and add functionality to server controls that are on an ASP.NET web form. Create user controls to access data in an ASP.NET web application (formerly CIM 260A and CIMW 250A). NR

CIMW 260  
WEB DEVELOPMENT: JAVASCRIPT, FRAMEWORKS, JQUERY AND AJAX  
3 Units; 3 hours lecture  

CIMW 262  
AJAX–ADVANCED JAVASCRIPT WITH XML  
3 Units; 3 hours lecture  
Provides students with the knowledge and skills necessary to use JavaScript, XML, and server-side languages to develop dynamic Web-based applications. Topics of study include the use of asynchronous JavaScript, the Document Object Model, XML in Web page requests, server-side languages (e.g. PHP, Java) to query and return information from a relational database, and how to design and develop new AJAX applications (formerly CIM 231). NR
Computer Science

CS 1A
INTRODUCTION TO COMPUTER SCIENCE I
5 Units; 4 hours lecture; 3 hours lab
Transfers: CSU, UC
The first course in the Introduction to Computer Science series. Designed as a hands-on introduction to the field of computer science for students preparing to enter the field or who are looking for a general interest course. Includes an overview of the history of computers, their hardware, and systems software. Emphasizes algorithm development using modern design methodologies and programming concepts up to and including looping algorithms, functions, and arrays. Programs implemented in a contemporary high-level-language currently C++. NR

CS 1B
INTRODUCTION TO COMPUTER SCIENCE II
5 Units; 4 hours lecture; 3 hours lab
Transfers: CSU, UC
Recommended Preparation: CS 1A
The second course in the Introduction to Computer Science series. Covers programming concepts including the properties of modularity and applies a contemporary high level programming language, currently C++, to the solutions of a wide variety of problems relating to science and business. Emphasis is on development, debugging, and testing of programs that use a wide variety of simple and composite data types. Includes functional and object-oriented programming. NR

CS 1C
INTRODUCTION TO COMPUTER SCIENCE III
4 Units; 3 hours lecture; 3 hours lab
Transfers: CSU, UC
Recommended Preparation: CS 1B
The third and final course in the Introduction to Computer Science series. Designed for computer science majors and interested professionals. Topics include lexical conventions, data types, classes, constructors, destructors, overloading, conversions, inheritance, exceptions, and I/O. Solutions will be implemented using a high-level language - currently C++. NR

Computer Maintenance Technology

CMT 215
ELECTRONICS FOR COMPUTER TECHNICIANS
3 Units; 3 hours lecture
Electronics summary covering the basics of electronics terminology, components, circuits, waveforms, equipment, assembly techniques, and troubleshooting which are relevant for computer technicians. Includes both analog and digital circuit fundamentals, plus discrete and integrated circuits related to computer technology and associated hardware. The emphasis is on basic concepts without extensive numerical analysis and calculations. NR

CMT 220
COMPUTER MAINTENANCE AND REPAIR I
3 Units; 2.5 hours lecture; 1.5 hours lab
First course of two in the sequence covering the basics of computer maintenance and repair. Includes PC hardware overview, motherboard, microprocessors, power supplies, memory, expansion buses, hard disk drives, and optical drives. Lab exercises with PCs give hands-on experience of the topics being studied. NR

CMT 225
COMPUTER MAINTENANCE AND REPAIR II
3 Units; 2.5 hours lecture; 1.5 hours lab
Recommended Preparation: CMT 220
Second course in the sequence covering the basics of computer maintenance and repair. Includes printers, moderns and communication devices, video adapters and displays, sound cards, introductory network concepts, Windows software issues, computer security, and computer troubleshooting. Lab exercises provide hands-on experience of the topics being studied. NR

CMT 230
APPLIED NETWORK TECHNOLOGY
3 Units; 2.5 hours lecture; 1.5 hours lab
Recommended Preparation: CMT 220
Study of computer networks for technicians. Includes network wiring, connectors, repeaters, hubs, routers, bridges and their application to system specifications and the OSI model and its protocols. Installation, troubleshooting, and maintenance of computer networks and network hardware are emphasized in the laboratory. NR

CMT 235
A+ EXAM PREPARATION FOR COMPUTER SERVICE TECHNICIANS
3 Units; 3 hours lecture
Recommended Preparation: CMT 225
Preparation and review for the A+ Certification Exams for computer service technicians. Covers topics for all exams. Test taking strategies and practice tests will be covered. NR

CIMW 280
WEB DESIGN: CAPSTONE PORTFOLIO PROJECT
1.5 Units; 1.5 hours lecture
Enables the student to demonstrate the mastery of the learning objectives in the Webmaster, Web Designer, or E-Commerce Specialist programs. Guides the student through the process of developing a portfolio. Focuses on demonstration of the knowledge, skills, and techniques required to plan, develop, and implement a portfolio website on the World Wide Web (WWW). Includes discussion on advanced Flash sites, CSS sites, Adobe Creative Suite, Adobe Dreamweaver, RWD, SEO, image viewers, and use of various technologies to develop a portfolio website. Also includes comprehensive review of basic concepts covered in certificate courses: Dreamweaver, HTML, CSS, JavaScript, SQL and PHP. Should be taken in the final semester of the program (formerly CIM 298). NR
CS 1D
DATA STRUCTURES
5 Units; 4 hours lecture; 3 hours lab
Transfers: CSU, UC
Recommended Preparation: CS 1B and 1C
Covers basic concepts of data structures and related algorithms. The abstract data types of lists, stacks, queues, strings, binary and general trees, multidimensional and sparse arrays, and graphs will be discussed and implemented using a contemporary programming language. Recursion, searching, and sorting will also be examined. NR

CS 3A
COMPUTER ORGANIZATION AND MACHINE LANGUAGE
4 Units; 3 hours lecture; 3 hours lab
Transfers: CSU, UC
Recommended Preparation: MATH 253 and CS 1A
An introductory course in computer organization with emphasis on machine language programming. Concepts covered include finite precision arithmetic, floating point architecture, Boolean Algebra, computer systems organization, microprogramming, and conventional machine language programming with the corresponding assembly language notation. NR

CS 3B
COMPUTER ORGANIZATION AND ASSEMBLY LANGUAGE
4 Units; 3 hours lecture; 3 hours lab
Transfers: CSU, UC
Recommended Preparation: CS 1A and CS 3A
Develops the concepts of computer organization begun in CS 3A with an emphasis in assembly languages. The concepts covered include languages, operating systems, and multi-level machines. NR

CS 4A
INTRODUCTION TO JAVA FOR COMPUTER SCIENCE
4 Units; 3 hours lecture; 3 hours lab
Transfers: CSU, UC
Recommended Preparation: CS 1B
An introduction to developing Java applications and applets. Topics include classes, inheritance, exceptions, arrays, vectors, recursion, streams, the abstract windowing tool kit, and swing components. NR

CS 4B
ADVANCED TOPICS IN JAVA FOR COMPUTER SCIENCE
4 Units; 3 hours lecture; 3 hours lab
Transfers: CSU, UC
Recommended Preparation: CS 4A
Advanced topics in Java including core class libraries, the swing components, the collections framework, multi-threading, servlets, JSP, RMI, JDBC, and software engineering concerns. NR

Coooperative Work Experience

CWE 180
COOPERATIVE WORK EXPERIENCE
Units and Hours Vary
Transfers: CSU
Provides supervised work experience extending classroom based occupational learning at an on-the-job learning station relating to the student’s occupational goal; employment related to major. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit awarded for each 75 hours of paid or 60 hours of volunteer employment, for successful completion of learning objectives, and for attendance at scheduled seminar sessions. A maximum of four units may be applied toward major requirements for certificate. Repeatability Varies

Cosmetology

COS 410A
COSMETOLOGY FRESHMAN–LEVEL 1
12 Units; 6 hours lecture; 18.1 hours lab
Recommended Preparation: 10th grade education or equivalent
First in a series of four, 400 hour courses. Designed to prepare the student for the California State Board of Barbering and Cosmetology licensing examination and success in a career in cosmetology. Includes both classroom instruction and laboratory practice required by the California State Board. At completion of 1,600 hours and passing the California State Board Examination students will be prepared as an entry level cosmetologist. A variable unit course offered on an open-entry/open-exit basis. Twelve units are granted upon successful completion of the 400 classroom/labatory hours. The units earned may not be applied toward the 60 units required for graduation. R-E-3

COS 410B
COSMETOLOGY INTERMEDIATE–LEVEL 2
12 Units; 6 hours lecture; 18.1 hours lab
Prerequisite: COS 410A or completion of 400 hours
Second in a series of four, 400 hour courses. Designed to continue the ongoing training required for the California State Board of Barbering and Cosmetology licensing examination and success in a career in cosmetology. Includes both classroom instruction and laboratory practice required by the California State Board. At completion of 1,600 hours and passing the California State Board Examination students will be prepared as an entry level cosmetologist. A variable unit course offered on an open-entry/open-exit basis. Twelve units are granted upon successful completion of the 400 classroom/labatory hours. The units earned may not be applied toward the 60 units required for graduation. R-E-3
COS 410C
COSMETOLOGY ADVANCED–LEVEL 3
12 Units; 6 hours lecture; 18.1 hours lab
Prerequisite: COS 410B or completion of 800 hours
The Advanced Course is designed to prepare the student for the California State Board of Barbering and Cosmetology licensing examination and success in career in cosmetology. The program includes both classroom instruction and laboratory practice of the knowledge and skills required by the State Board and for entry level skills as a cosmetologist. Subjects applicable to cosmetology are also covered. This is the third of four consecutive courses. Each course is 400 hours and each must be successfully completed to advance to the next course. Twelve units are granted upon successful completion of the 400 classroom/laboratory hours. The units earned may not be applied toward the 60 units required for graduation. R-E-3

COS 410D
COSMETOLOGY SENIOR–LEVEL 4
12 Units; 6 hours lecture; 18.1 hours lab
Prerequisite: COS 410C or completion of 1200 hours
Final in a series of four, 400 hour courses. Designed to prepare the student for the California State Board of Barbering and Cosmetology licensing examination and success in a career in cosmetology. Includes both classroom instruction and laboratory practice required by the California State Board. At completion of 1,600 hours and passing the California State Board Examination students will be prepared as an entry level cosmetologist. A variable unit course offered on an open-entry/open-exit basis. Twelve units are granted upon successful completion of the 400 classroom/laboratory hours. The units earned may not be applied toward the 60 units required for graduation. R-E-3

COS 440
COSMETICIAN
18 Units; 9 hours lecture; 27.5 hours lab
Limitations: California State Board of Barbering & Cosmetology Business and Professions Code Section 7321 provides that a student: (a) is not less than 17 years of age & (b) has completed the 10th grade in the public schools of this state or its equivalent
A 600 hour course designed to prepare the student for the State licensing examination and success as a cosmetician/esthetician. Course includes both classroom instruction and laboratory practice. Successful completion of this course and successful completion of the State Licensing Examination will allow the graduate cosmetician to perform manual and electrical facials, eyebrow arching and hair removal (other than by electrolysis), or become a make-up artist or skin care representative. A variable unit course offered on an open-entry/open-exit basis with a required minimum number of combined lecture/lab hours per week. The units earned for this course may not be applied toward the 60 units for graduation. R-E-3

COUN 100
COLLEGE SUCCESS
1.5 Units; 1.5 hours lecture
Transfers: CSU
Designed to introduce students to higher education and to create greater success in life. Students will learn proven strategies for creating academic and personal success. Topics include understanding and utilizing college resources, communication and interdependence with faculty, support staff and fellow students, especially those who are uncommitted to a major or goal (formerly APSY 140). NR

COUN 140
EDUCATIONAL AND VOCATIONAL PLANNING
3 Units; 3 hours lecture
Transfers: CSU
Designed as an instrument of individual and group counseling. Activities are centered on self-analysis including the use of tests and inventories, the analysis of occupational areas and trends, and the study of educational requirements and factors in academic success and personal achievement. Recommended for all freshman students, especially those who are uncommitted to a major or goal. (formerly APSY 140).
NR

COUN 150
HELPING RELATIONSHIPS
3 Units; 3 hours lecture
Transfers: CSU
Designed to aid the individual in acquiring the skills and personal growth necessary to help others in self-exploration and positive changes. The student will learn a process of helping which relies heavily on empathy, honesty, and caring in relationships to effect positive change in others. Benefits those in the helping professions as well as any individual seeking to be more helpful in relationships with others (formerly APSY 150). NR
COUN 151
HUMAN RELATIONSHIPS
3 Units; 3 hours lecture
Transfers: CSU
Integrating psychological, sociological, and physiological perspectives, this course will explore the human experience and the human connections that make us whole. Aspects of human experiences examined will include the dimensions of relatedness: to the self, to the body, to significant others and to the larger social context. The environments we create in which we flourish and the spaces between us that give us meaning will be explored. In addition, ways to enhance and grow relationships within those contexts will be described (formerly APSY 151). NR

COUN 160
CAREER AND VOCATIONAL EXPLORATION
3 Units; 3 hours lecture
Transfers: CSU
Focuses on process of vocational choice through study of occupational trends and survey of specific occupations. Working with information about themselves obtained through standardized tests and other measures and selected occupational information, students develop a tentative occupational plan. Designed for students who are undecided about their majors or interested in changing careers (formerly APSY 160). NR

COUN 161
LEARNING AND STUDY TECHNIQUES
1.5 Units; 1.5 hours lecture
Transfers: CSU
Applies principles derived from cognitive/behavioral psychology to facilitate development of organizational and information-processing skills. Includes strategies for information acquisition, retention, and retrieval. Practical applications focus on decision making, goal setting, motivational techniques, time management, and didactic learning skills. Concepts are reinforced through online activities and supplemental website research. Principles and techniques are applicable in educational and professional settings (formerly APSY 161A). NR

Dance

DANC 9
CHOREOGRAPHY
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU, UC
Emphasis will be placed on movement design, choreographic structure and production fundamentals of dance. Students will participate in class activities, improvisation, movement studies, discussions, and gain a working knowledge of staging, lighting, and preparing choreography for performance. Students are limited to a combined total of four enrollments in DANC 9, 10, 11, 12, and 14. NR

DANC 10
DANCE PRODUCTION
1 Unit; 3 hours lab
2 Units; 6 hours lab
Transfers: CSU, UC
Elements of choreography, development of solo and group choreographic compositions, staging of dances, and performance in theatre venue. Students are limited to a combined total of four enrollments in DANC 9, 10, 11, 12, and 14. NR

DANC 11
DANCE REHEARSAL AND PERFORMANCE
1 Unit; 3 hours lab
2 Units; 6 hours lab
Transfers: CSU, UC
Entry level course emphasizing rehearsal and performance techniques in a theatre venue. Students are limited to a combined total of four enrollments in DANC 9, 10, 11, 12, and 14. NR

DANC 12
INTERMEDIATE DANCE PRODUCTION
1 Unit; 3 hours lab
2 Units; 6 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 10
Emphasizes the development of group and solo composition, staging, lighting and performance in a mastery level experience for a theatre venue. Students are limited to a combined total of four enrollments in DANC 9, 10, 11, 12, and 14. Formerly DANC 112. NR

DANC 14
INTERMEDIATE DANCE REHEARSAL AND PERFORMANCE
1 Unit; 3 hours lab
2 Units; 6 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 11
An intermediate level course that emphasizes building and developing performance skills in the presentation and staging of dances for professional auditions and theatre venues. Students are limited to a combined total of four enrollments in DANC 9, 10, 11, 12, and 14. Formerly DANC 114. NR

DANC 15
REPERTORY I
1 Unit; 3 hours lab
2 Units; 6 hours lab
Transfers: CSU, UC
Limitation: Audition mandatory at beginning of the semester
Students will learn, rehearse and perform set repertory for college and community events. Auditions mandatory at start of semester (formerly DANC 115). Students are limited to a combined total of four enrollments in DANC 15, 16, 17, and 18. NR

DANC 16
REPERTORY II
1 Unit; 3 hours lab
2 Units; 6 hours lab
Transfers: CSU, UC
Limitation: Audition by dance faculty
Advanced level performing ensemble representing Saddleback College dance department. Students will learn valuable skills through preparing, rehearsing and performing for local high schools and throughout the community while working in a professional environment as a performer (formerly DANC 116). Students are limited to a combined total of four enrollments in DANC 15, 16, 17, and 18. NR
DANC 17
SITE SPECIFIC PERFORMANCE
1 Unit; 3 hours lab
Transfers: CSU, UC
Overview of techniques and approaches for performance and design outside the context of a proscenium theatre. Covers movement, sound, text, image, design, improvisation and composition. Opportunities for rehearsal, choreography, improvisation and performance in multiple styles and settings. Students are limited to a combined total of four enrollments in DANC 15, 16, 17, and 18. NR

DANC 18
DANCE ENSEMBLE PERFORMANCE
2 Units; 6 hours lab
Limitation: Audition adjudicated by dance faculty at the beginning of the semester. Students will audition, rehearse and perform choreography in an ensemble company in venues throughout the community. Students are limited to a combined total of four enrollments in DANC 15, 16, 17, and 18. NR

DANC 28
YOGA FOR DANCERS
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Designed for the dancer to build and maintain balance, flexibility and strength through postures, exercises and breathing techniques. Sequences will provide a methodical way for the dancer to condition the body and calm the mind in preparation for audition and performance (formerly DANC 128). Students are limited to a combined total of four enrollments in KNES 28, 39, 40, and DANC 28. NR

DANC 38
INTERMEDIATE MAT PILATES
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 65/KNES 65
Intermediate progression of mat exercises emphasizing the principles of Joseph Pilates. Improvement of back strength, flexibility, and postural alignment by integration of physical and mental aspects of movement. Proper breathing techniques are emphasized. Also listed as KNES 38. Credit given in either area, not both (formerly DANC 138). Students are limited to a combined total of four enrollments in KNES 9, DANC/KNES 38, DANC 63, and DANC/KNES 65. NR

DANC 51
INTRODUCTION TO BALLET
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 52
Designed for students with no experience in dance as well as those wishing to perfect basic dance skills. Fundamentals of modern dance techniques are presented and practiced in class, and presentation of historical and stylistic perspectives of this dance form. An emphasis is placed on class participation to provide the student with knowledge and understanding of the physical demands of modern dance. Students are limited to a combined total of four enrollments in DANC 51, 52, 53, 67, and 71. NR

DANC 53
INTERMEDIATE BALLET
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 52
Emphasis on improving ballet technique and continuing to build vocabulary at the ballet barre and in center. Students are limited to a combined total of four enrollments in DANC 51, 52, 53, 67, and 71. NR

DANC 54
INTRODUCTION TO MODERN DANCE
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Designed for students with no experience in dance as well as those wishing to perfect basic dance skills. Fundamentals of modern dance techniques are presented and practiced in class, and presentation of historical and stylistic perspectives of this dance form. An emphasis is placed on class participation to provide the student with knowledge and understanding of the physical demands of modern dance. Students are limited to a combined total of four enrollments in DANC 51, 52, 53, 67, and 71. NR

DANC 55
MODERN DANCE LEVEL I
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 54
Provides students with a progressive modern dance experience to perfect techniques presented and practiced in class. The presentation of historical and stylistic perspectives of this dance form will included. An emphasis is placed on class participation to provide the student with knowledge and understanding of the physical demands of modern dance. Students are limited to a combined total of four enrollments in DANC 54, 55, 56, and 72. NR
DANC 56  
INTERMEDIATE MODERN DANCE  
1 Unit; 0.5 hours lecture; 1.5 hours lab  
1.5 Units; 1 hour lecture; 2 hours lab  
Transfers: CSU, UC  
Recommended Preparation: DANC 55  
Provides an opportunity for students to increase their proficiency in modern dance technique with emphasis on improving individual skills. Continued development of the body through stylized movement. Students are limited to a combined total of four enrollments in DANC 54, 55, 56, and 72. NR

DANC 57  
INTRODUCTION TO JAZZ DANCING  
1 Unit; 0.5 hours lecture; 1.5 hours lab  
1.5 Units; 1 hour lecture; 2 hours lab  
Transfers: CSU, UC  
Designed for students with no experience in dance, as well as those wishing to perfect basic dance skills. Fundamentals of jazz dance are presented and practiced in class with presentation of the historical and stylistic perspectives of this dance form. An emphasis is placed on class participation to provide the student with knowledge and understanding of the physical demands of jazz dancing. Students are limited to a combined total of four enrollments in DANC 57, 58, 59, and 73. NR

DANC 58  
JAZZ DANCING LEVEL I  
1 Unit; 0.5 hours lecture; 1.5 hours lab  
1.5 Units; 1 hour lecture; 2 hours lab  
Transfers: CSU, UC  
Designed for students with beginning experience in dance, as well as those wishing to perfect jazz dancing skills. Jazz dancing techniques are presented and practiced in class including historical and stylistic perspectives of this dance form. An emphasis is placed on class participation to provide the student with knowledge and understanding of the physical demands of jazz dancing. Students are limited to a combined total of four enrollments in DANC 57, 58, 59, and 73. NR

DANC 59  
INTERMEDIATE JAZZ DANCING  
1 Unit; 0.5 hours lecture; 1.5 hours lab  
1.5 Units; 1 hour lecture; 2 hours lab  
Transfers: CSU, UC  
Recommended Preparation: DANC 58  
Intermediate jazz dancing techniques are presented and practiced with an emphasis on stylistic qualities. Participation provides students with the knowledge and understanding of the physical demands of jazz dancing. Students are limited to a combined total of four enrollments in DANC 57, 58, 59, and 73. NR

DANC 60  
INTRODUCTION TO TAP DANCING  
1 Unit; 0.5 hours lecture; 1.5 hours lab  
1.5 Units; 1 hour lecture; 2 hours lab  
Transfers: CSU, UC  
Designed for students with no experience in dance, as well as those wishing to perfect basic dance skills. Fundamentals of tap dancing techniques are presented and practiced in class with presentations of the historical and stylistic perspectives of this dance form. An emphasis is placed on class participation to provide the student with knowledge and understanding of the physical demands of tap dancing. Students are limited to a combined total of four enrollments in DANC 60, 61, 62, and 75. NR

DANC 61  
TAP DANCING LEVEL I  
1 Unit; 0.5 hours lecture; 1.5 hours lab  
1.5 Units; 1 hour lecture; 2 hours lab  
Transfers: CSU, UC  
Designed for students with beginning experience in tap dancing as well as those wishing to progress in tap dancing skills. Fundamentals of tap dancing techniques are presented and practiced in class with presentations of the historical and stylistic perspectives of this dance form. An emphasis is placed on class participation to provide the student with knowledge and understanding of the physical demands of tap dancing. Students are limited to a combined total of four enrollments in DANC 60, 61, 62, and 75. NR

DANC 62  
INTERMEDIATE TAP DANCING  
1 Unit; 0.5 hours lecture; 1.5 hours lab  
1.5 Units; 1 hour lecture; 2 hours lab  
Transfers: CSU, UC  
Recommended Preparation: DANC 61  
Review and continuation of tap dancing skills with emphasis on improving individual technique and knowledge based concepts. Higher level steps and dance combinations will be presented. Students are limited to a combined total of four enrollments in DANC 60, 61, 62, and 75. NR

DANC 63  
EXERCISE FOR DANCERS  
1 Unit; 0.5 hours lecture; 1.5 hours lab  
Transfers: CSU, UC  
Designed for the dance student to increase fitness, flexibility, endurance, and strength in all types of dance techniques. Includes weight training, nutrition, care and prevention of injuries, and exercise. Students are limited to a combined total of four enrollments in KNES 9, KNES/DANC 38, DANC 63, and KNES/DANC 65. NR

DANC 64  
HISTORY OF DANCE  
3 Units; 3 hours lecture  
Transfers: CSU, UC  
Follows the historical development of theatrical forms of dance in the Western world. The course moves chronologically from the Renaissance to the twenty-first century, with particular attention to the progress of ballet, modern, musical theatre, tap, and dance media in the United States and Europe. Readings, class discussions, viewings and assignments are all integral parts of the course, and lectures will be supplemented with film excerpts, creative activities, and discussion of both assigned reading and materials viewed in class. NR
DANC 65
INTRODUCTION TO MAT PILATES
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Fundamentals of mat exercise emphasizing the principles of Joseph Pilates. Exercises to improve abdominal and back strength, flexibility, and postural alignment. Pilates involves integrating the physical and mental aspects of movement to correct imbalances in the body. Enhancement in any movement-based program, such as dance, sports, or exercise programs. Proper breathing techniques are emphasized. Also listed as KNES 65, credit given in either area, not both. Students are limited to a combined total of four enrollments in KNES 9, KNES/DANC 38, DANC 63, and KNES/DANC 65. NR

DANC 66
INTRODUCTION TO LATIN DANCE
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Explores the international forms of Latin dance such as salsa, tango, mambo, paso doble. Combinations will be presented to gain strength, coordination and agility. Students are limited to a combined total of four enrollments in DANC 66 and 70. NR

DANC 67
POINTE BALLET
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 53
Pointe ballet training with an emphasis on individual ballet skills in balance, strength, alignment and positions for dance in pointe shoes. Adagio and allegro exercises will be presented at the ballet barre and center-floor. Students are limited to a combined total of four enrollments in DANC 51, 52, 53, 67, and 71. NR

DANC 68
INTRODUCTION TO SOCIAL DANCE
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 68
Explores the various forms of social dance such as Fox Trot, Waltz, Tango, Salsa, Samba, Cha Cha, Mambo, Rumba, Swing/Jive, and Quick Step. Combinations will be presented to gain coordination, strength, and agility. Students are limited to a combined total of four enrollments in DANC 68 and 69. NR

DANC 69
INTERMEDIATE SOCIAL DANCE
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 68
Review and continuation of social dance with emphasis on improving individual skills. More advanced steps and dance sequences will be presented. Students are limited to a combined total of four enrollments in DANC 68 and 69. Formerly DANC 169. NR

DANC 70
INTERMEDIATE LATIN DANCE
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 68
Intermediate Latin Dance with emphasis on improving individual skills. More advanced steps and dance sequences will be presented. Students are limited to a combined total of four enrollments in DANC 66 and 70. Formerly DANC 170. NR

DANC 71
ADVANCED BALLET
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 53
Advanced ballet technique with emphasis on performance. Improving individual skills at the ballet barre and center-floor with adagio and allegro combinations (formerly DANC 171). Students are limited to a combined total of four enrollments in DANC 51, 52, 53, 67, and 71. R-E-3

DANC 72
ADVANCED MODERN DANCE
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 56
Expand and develop advanced modern dancing techniques with emphasis on improving individual skills. Advanced modern dance concepts and combination will be presented (formerly DANC 172). Students are limited to a combined total of four enrollments in DANC 54, 55, 56, and 72. R-E-3

DANC 73
ADVANCED JAZZ DANCE
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 59
A course for the more advanced student emphasizing various and combined styles, complex isolations and heightened tempos found in jazz dancing (formerly DANC 173). Students are limited to a combined total of four enrollments in DANC 57, 58, 59, and 73. R-E-1

DANC 74
MULTICULTURAL DANCE HISTORY IN THE UNITED STATES
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: DANC 56
Introduction to artistic, historical, and social context of dance forms, cultures, and traditions in the United States. Investigation of the origins, influences and the dissemination of various world dance forms as they have developed in the United States (formerly DANC 174). NR

DANC 75
ADVANCED TAP DANCE
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 62
Advanced skills in multiple tap techniques emphasizing rhythmic complexity, various tempos and improvisation (formerly DANC 175). Students are limited to a combined total of four enrollments in DANC 60, 61, 62, and 75. NR
DANC 77
DANCE ACTIVITIES: LATIN AEROBICS
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU, UC
Combines Latin music with stretching sequences and high energy movement combinations for health and fitness (formerly DANC 177). Students are limited to a combined total of four enrollments in KNES 1, 3, 7, 8, 16, 50, and DANC 77. NR

DANC 78
HIP HOP
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU, UC
Emphasizes various styles of hip hop dance such as breaking, locking, popping and freestyle. Preparation in auditioning for entertainment, commercial, and competitive events (formerly DANC 178). Students are limited to a combined total of four enrollments in DANC 78, 79, 80, and 81. NR

DANC 79
HIP HOP LEVEL I
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 78
Emphasizes various styles of hip hop dance. Further study in hip hop techniques such as street dance, breaking, B-boying and freestyle. Continued preparation in auditioning for entertainment, commercial, and competitive events. Students are limited to a combined total of four enrollments in DANC 78, 79, 80, and 81. NR

DANC 80
INTERMEDIATE HIP HOP
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 79
Emphasizes various styles of hip hop dance. A more advanced study in hip hop techniques. Preparation for performing and choreographing entertainment, commercial, and competitive venues. Students are limited to a combined total of four enrollments in DANC 78, 79, 80, and 81. NR

DANC 81
ADVANCED HIP HOP
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 80
Students will increase knowledge and technique in hip hop forms as a result of continued instruction. Students will learn, create and analyze hip hop movement preparing for auditions in performance venues. Students are limited to a combined total of four enrollments in DANC 78, 79, 80, and 81. NR

Drafting

DR 23
ENGINEERING GRAPHICS
3 Units; 1.5 hours lecture; 4.5 hours lab
Transfers: CSU, UC
Principles of communicating product design requirements via multiview projections, auxiliary views, and working drawings, including dimensions and notes using Computer-Aided Drafting (CAD). Planar geometric projections in orthographic relationships are used to define points, lines, planes, intersections and developments, and to describe spatial relationships. NR

DR 50
INTRODUCTION TO COMPUTER-AIDED DRAFTING
3 Units; 2 hours lecture; 4 hours lab
Transfers: CSU, UC
Recommended Preparation: ARCH 124A or DR 100
Introductory course covering the operation and application of computer-aided drafting (CAD) systems used to create, modify, store, and plot technical drawings. Also listed as ARCH 50. Credit given in either area, not both. NR

DR 51
COMPUTER-AIDED DRAFTING
3 Units; 2 hours lecture; 4 hours lab
Transfers: CSU, UC
Recommended Preparation: DR or ARCH 50
An intermediate to advanced level course in the operation and application of computer aided drafting systems, used to create, edit, save, and plot technical 2D and 3D drawings. Also listed as ARCH 51. Credit given in either area, not both. NR

DR 100
FUNDAMENTALS OF INDUSTRIAL AND MECHANICAL DESIGN
3 Units; 2 hours lecture; 4 hours lab
Transfers: CSU
Recommended Preparation: DR 100 or one year of high school mechanical drafting
Develops the basic skills required to produce industrial-quality assembly and detailed drawings including sections, first and second auxiliary views, advanced dimensioning, tolerancing, and further development of mechanical drawing skills. A computer-aided drafting (CAD) system will be used. NR

DR 101
MECHANICAL DESIGN
3 Units; 1.5 hours lecture; 4.5 hours lab
Transfers: CSU
Recommended Preparation: DR 100 or one year of high school mechanical drafting
Develops the basic skills required to produce industrial-quality assembly and detailed drawings including sections, first and second auxiliary views, advanced dimensioning, tolerancing, and further development of mechanical drawing skills. A computer-aided drafting (CAD) system will be used. NR

DR 102
MECH DESIGN AND MARKETING PORTFOLIO
3 Units; 1.5 hours lecture; 4.5 hours lab
Transfers: CSU
Develops basic skills needed for industrial-level mechanical and conceptual design including assembly drawings, detail drawings, fundamentals of mechanical design, and strategies for creative design. A computer aided design (CAD) system will be used. Create and develop a hybrid Electronic-Physical Portfolio of Technical Drawings/Architectural Drawings, which showcase the student work. NR

www.saddleback.edu
DR 120
ENGINEERING TECHNOLOGY
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Comprehensive program to introduce and train students in the areas of Engineering Technology to provide skills and competencies to integrate design knowledge with practical job skills. NR

DR 152
ADVANCED COMPUTER-AIDED DESIGN
3 Units; 2 hours lecture; 4 hours lab
Transfers: CSU
Recommended Preparation: DR or ARCH 50 or 51
Advanced computer-aided design and drafting with emphasis on advanced 3D CAD knowledge and skills in the completion of technical drawings that support 3D modeling. Also listed as ARCH 152. Credit given in either area, not both. NR

DR 200
3D PARAMETRIC MODELING – SOLIDWORKS
3 Units; 2 hours lecture; 4 hours lab
Recommended Preparation: DRIARCH 50
Operation and application of modern computer-aided design using Solidworks. Includes development of 3D computer models from concept to component parts, drawings, and assemblies. NR

DR 201
ADVANCED 3D PARAMETRIC MODELING – SOLIDWORKS
3 Units; 2 hours lecture; 4 hours lab
Recommended Preparation: DR 200
Advanced operation and application of modern computer-aided design using Solidworks. Includes development of 3D computer models from concept to component parts, drawings, and assemblies. Creation of parts using surface modeling, the study of parts using Finite Element Analysis, and the application of Motion Analysis in Assemblies. NR

DR 202
GEOMETRIC DIMENSIONING AND TOLERANCING
3 Units; 2 hours lecture; 4 hours lab
Recommended Preparation: DRIARCH 50
Review of conventional dimensioning (non geometric dimensioning) and the introduction of geometric dimensioning and tolerancing using Solidworks. NR

DR 203
GREEN & SUSTAINABLE MANUFACTURING DESIGN
3 Units; 1.5 hours lecture; 4.5 hours lab
Presents the developing and evolving fields for innovative designs of products that minimize the carbon footprint and reduce the impact of product manufacture and life-cycle use upon the environment. NR

Economics

ECON 2
PRINCIPLES (MACRO)
3 Units; 3 hours lecture
Transfers: CSU, UC
Prerequisite: MATH 253
Economic analysis of theories of income determination including national income measurement, unemployment, inflation, economic growth, monetary and fiscal policy, banking and money creation, and international finance. Explores consumption, saving, investment, government spending, exports, and imports. NR

ECON 4
PRINCIPLES (MICRO)
3 Units; 3 hours lecture
Transfers: CSU, UC
Prerequisite: MATH 253
Economic analysis of resource use and the production and distribution of goods and services by markets and other allocation mechanisms. Topics include: supply and demand, economic decision-making, imperfect competition, antitrust, regulation, environmental economics, the distribution of income, efficient resource use, international trade, and efficiency vs. other criteria for judging microeconomic success. NR

ECON 11
INTERNATIONAL POLITICAL ECONOMY
3 Units; 3 hours lecture
Transfers: CSU, UC
Focuses on the relations between the political and economic systems within the global economy. Covers the impact of political decisions on world economies and international organizations. Further emphasis is on a comparison-contrast of various national economies. Geographic areas of concern include Africa, Europe, the Pacific Rim, the Middle East, Latin America, Russia, China, and the United States. Also listed as PS 11. Credit given in either area, not both. NR

Ecological Restoration

ECOL 201
ECOLOGICAL RESTORATION TECHNIQUES
4 Units; 3 hours lecture; 3 hours lab
Introduces students to specific theory and techniques for ecological restoration in a variety of habitats. Laboratory exercises will include site visits to restoration projects. NR

ECOL 202
ADVANCED ECOLOGICAL RESTORATION TECHNIQUES
4 Units; 3 hours lecture; 3 hours lab
An advanced course in practical and theoretical ecological restoration techniques. Political, social, and scientific considerations in restoration will be discussed. Laboratory exercises will include field techniques for planting, irrigating, and monitoring restoration sites. NR
ECON 20
THE AMERICAN ECONOMY
3 Units; 3 hours lecture
Transfers: CSU, UC
A general education course surveying the American economy from both microeconomic and macroeconomic perspectives. Intended for non-majors and those preparing to take ECON 2 and 4. Topics include business cycles; unemployment; inflation; international trade; income distribution; market structure and performance; and the economic behavior of firms, households, and government. NR

EDUCATION

EDUC 41
SECONDARY SCHOOL TEACHING
4 Units 3 hours lecture; 3 hours lab
Transfers: CSU, UC
History, philosophy and sociology of secondary education. Introduction to the California Teaching Performance Expectations and Assessments; needs of special populations; English learners, and struggling readers; content standards including Career Technical Education; and major curriculum reform documents. In addition, students will gain experience through 40 hours of required field work as follows: 30 hours at one site and 10 hours in various other sites/activities (formerly EDUC 115). NR

EDUC 90
INTRO TO ELEMENTARY EDUCATION
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: ENG 300, 340, CD 107
Introduces concepts and issues related to teaching diverse learners in today’s contemporary schools, Kindergarten through grade 12 (K-12). Topics include teaching as a profession and career, historical and philosophical foundations of the American education system, contemporary educational issues, California’s content standards and frameworks, and teacher performance standards. In addition to class time, the course requires a minimum of 45 hours of structured fieldwork in public school classrooms that represent California’s diverse student population, and includes cooperation with at least one carefully selected and campus-approved certificated classroom teacher. NR

EDUC 118
EXCEPTIONAL CHILDREN
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: ENG 200 and 340
An introduction to special education for K-12 students. Offers a survey and study of various characteristics of exceptional children. The primary focus will be on the categories of children with disabilities, but will include children at risk, and children from culturally diverse backgrounds. DSS NR

EDUC 131
EDUCATIONAL PSYCHOLOGY
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: ENG 200 and ENG 340
Focuses on the basic principles of psychology that are pertinent to education, including abilities, intelligence, social and emotional factors, and principles of learning. NR

Electronic Technology

ET 101
SURVEY OF ELECTRONICS
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: ENG 200 and ENG 340
Introduces electronics for non-majors or those exploring possible interest in the field. Covers the basics of electronics. NR

ET 114
DIGITAL ELECTRONIC CIRCUITS
4 Units; 3 hours lecture; 3 hours lab
Transfers: CSU
Recommended Preparation: ET 113
Fundamentals of logic and circuits for digital electronics. Includes binary arithmetic, Boolean algebra, logic gates, digital technologies, memory circuits, A/D and D/A converters, addition/subtraction circuits, shift registers, counters, clock and timing circuits, and multiplexers/demultiplexers. Laboratory experiments emphasize testing and troubleshooting of common circuits. NR

ET 118
ELECTRONIC COMMUNICATION SYSTEMS
4 Units; 3 hours lecture; 3 hours lab
Transfers: CSU
Recommended Preparation: ET 114 and 135
Fundamentals of modern electronic communication systems, including radio, data, digital, and opto-electronic systems. Study of noise analysis, modulation methods, networks, transmission lines, antennas, and other important system components and considerations. Includes analytical principles and equations as well as practical applications and troubleshooting. NR

ET 133
DC AND AC FUNDAMENTALS
4 Units; 3 hours lecture; 3 hours lab
Transfers: CSU
Recommended Preparation: ET 114 and 135
Fundamentals of DC and AC electronic components and circuits. Includes basic DC and AC terms, resistors, capacitors, inductors, Ohm’s law, series and parallel circuits, circuit theorems, magnetism, transformers, time constants, reactance, resonance, and passive filters. Laboratory experiments utilize common test equipment such as the digital multimeter, power supply, function generator, and oscilloscope. NR

ET 135
SEMICONDUCTOR DEVICES AND CIRCUITS
4 Units; 3 hours lecture; 3 hours lab
Transfers: CSU
Recommended Preparation: ET 133
Fundamentals of semiconductor devices and circuits, both discrete and integrated. Includes diodes, transistors, amplifiers, thyristors, operational amplifiers, active filters, oscillators, and voltage regulators. Lab exercises include building and testing devices and circuits studied. NR
ET 200
DIGITAL SIGNAL PROCESSING
AND MICROCONTROLLERS
4 Units; 3 hours lecture; 3 hours lab
Recommended Preparation: ET 114
Fundamentals of digital signal processing, microcontrollers, A/D and D/A interface circuits, and other advanced digital circuits. Includes related hardware, software, testing, and troubleshooting. Lab exercises including building and testing circuits and devices studied. NR

ET 201
ROBOTICS FUNDAMENTALS
2 Units; 1.5 hours lecture; 1.5 hours lab
Fundamentals of robotics, including hardware, software, testing, and troubleshooting. Study of the basics of the major hardware and software of a small robot while building and programming it for various activities. NR

ET 202
INTERMEDIATE ROBOTICS
2 Units; 1.5 hours lecture; 1.5 hours lab
Recommended Preparation: ET 201
Study of intermediate level robotics systems, including mechanical and electronic components and subsystems, microcontrollers, sensors, motors/servos, and software. Each student will purchase a robotic arm and construct, program, test, and troubleshoot it to perform specified tasks. NR

Emergency Medical Technology

EMT 207
EMERGENCY MEDICAL TECHNICIAN PROCEDURES
11 Units; 10 hours lecture; 3 hours lab
Limitation: American Heart Association BLS Healthcare Provider certification, physical exam and background check required.
Corequisite: EMT 207C
Designed to develop students into proficient and compassionate emergency healthcare professionals who conduct themselves with integrity and humility. Covers the cognitive, psychomotor, and affective aspects of Basic Life Support level prehospital care as identified in the National EMS Education Standards, including anatomy, physiology, pathophysiology, pharmacology, operations, administration, safety, and well-being. Students must achieve an overall final grade of 80% (B) or above in EMT 207, and successfully complete all four clinical shifts in EMT 207C, to be awarded a course completion certificate, which is required to take the National Registry EMT exam and become certified as an EMT. Also satisfies Orange County EMT accreditation training requirements. NR

EMT 207C
EMERGENCY MEDICAL TECHNICIAN CLINICAL OBSERVATION
0.75 Unit; 2 hours lab
Limitation: American Heart Association BLS Healthcare Provider certification and physical exam and background check required.
Corequisite: EMT 207
Provides opportunity to observe and participate in patient care activities under the supervision of hospital staff and ambulance personnel. Successful completion of both EMT 207 and EMT 207C is required to be eligible to take the National Registry EMT examination and become certified as an EMT. NR

EMT 210
EMERGENCY MEDICAL TECHNICIAN REFRESHER COURSE
1.25 Units; 1 hour lecture; 0.75 hours lab
Recommended Preparation: EMT 207
Designed for currently certified EMTs who need to renew their certification. Covers key cognitive, psychomotor, and affective aspects of Basic Life Support level prehospital emergency medical care as identified in the National EMS Education Standards. Includes both lecture and skills, and satisfies California state EMT recertification requirements. NR

EMT 219
PARAMEDIC PREPARATION
4 Units; 4 hours lecture
Prerequisite: Current EMT certification
Designed for currently certified EMTs seeking to enter a paramedic education program in the near future. Focuses on specific cognitive aspects of Advanced Life Support level prehospital emergency medical care as identified in the National EMS Education Standards, including biochemistry and cellular physiology, general anatomy, and the pathophysiology of the nervous, respiratory, and cardiovascular systems. Topics also include patient assessment, and mathematics related to prehospital pharmacology including conversions, equivalents, and drug administration calculations. NR

Engineering

ENGR 31
STATICS
3 Units; 3 hours lecture
Transfers: CSU, UC
Prerequisite: PHYS 4A
Statics is the study of force systems under equilibrium conditions. Force systems are analyzed for trusses, frames, and machines which are subjected to concentrated, distributed, and frictional forces. Graphical and mathematical methods of analysis are used, including virtual-work. NR
English

ENG 1A
PRINCIPLES OF COMPOSITION I
4 Units; 4 hours lecture
Transfers: CSU, UC
Prerequisite: Satisfactory score on the English Placement Examination or completion of ENG 200 with a grade of "C" or better OR completion of ENG 390 with a grade of "C" or better

Focuses on composing the academic-style expository essay, which features a comprehensive thesis and logical support. Students will write original compositions increasing in level of difficulty and length, totaling at least 6,000 words, which will use rhetorical strategies such as textual analysis, causal analysis, comparison and argument. Students will read, interpret, and synthesize non-fiction sources using Standard Written English and MLA format. NR

ENG 1AH
PRINCIPLES OF COMPOSITION I HONORS
4 Units; 4 hours lecture
Transfers: CSU, UC
Prerequisite: Satisfactory score on the English Placement Examination or successful completion of English 200 with a "C" or better

Focuses on composing the academic-style expository essay, which features a comprehensive thesis and logical support, including use of scholarly sources. Students will write original compositions increasing in level of difficulty and length, totaling at least 6,000 words, which will use rhetorical strategies such as textual analysis, causal analysis, comparison and argument, building toward a capstone project featuring an argumentative essay with an oral presentation. Students will read, interpret, and synthesize complex, interdisciplinary non-fiction sources using Standard Written English and MLA format. NR

ENG 1B
PRINCIPLES OF COMPOSITION II
3 Units; 3 hours lecture
Transfers: CSU, UC
Prerequisite: ENG 1A with a grade of "C" or better

Provides instruction in critical thinking and in writing expository and persuasive essays and documented papers totaling a minimum of 8,000 words. Instruction focuses on the development of logical reasoning, on analytical and argumentative writing skills, and on research strategies. Assignments are derived from themes and works in various disciplines and cultures. NR

ENG 1BH
PRINCIPLES OF COMPOSITION II HONORS
3 Units; 3 hours lecture
Transfers: CSU, UC
Prerequisite: ENG 1A with a grade of "C" or better

Provides instruction in critical thinking and in writing a research paper with an argumentative thesis and academic-style analytical and argumentative essays. The writing totals a minimum of 8,000 words. Instruction focuses on the development of logical reasoning; on analytical and argumentative writing skills; on research strategies, with emphasis on use of scholarly sources and field research; and on an oral presentation of research findings. Assignments are derived from complex interdisciplinary nonfiction sources. NR

ENG 3
INTRODUCTION TO CREATIVE WRITING
3 Units; 3 hours lecture
Transfers: CSU, UC
Prerequisite: Eligibility for ENG 1A

Emphasizes the writing of prose, poetry, and drama stressing critical judgment of these forms. NR

ENG 4
FICTION FUNDAMENTALS
3 Units; 3 hours lecture
Transfers: CSU, UC
Prerequisite: Eligibility for ENG 1A

Teaches the fundamentals of storytelling or narrative art, including the basic elements and narrative modes of fiction. Students read published short stories, write fictional works, and assess student fiction manuscripts. NR

ENG 15A
SURVEY OF AMERICAN LITERATURE: 1620-1860
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: Eligibility for ENG 1A

Emphasizes major ideas, authors, and forms in American literature during the 17th, 18th, and early 19th centuries. NR

ENG 15B
SURVEY OF AMERICAN LITERATURE: 1860-CONTEMPORARY
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: Eligibility for ENG 1A

Emphasizes major ideas, authors, and forms from the late 19th century to the present. NR

ENG 17A
SURVEY OF ENGLISH LITERATURE: BEOWULF TO CONTEMPORARY
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: Eligibility for ENG 1A

Covers 9th century to 1796: Anglo-Saxon, Medieval, Tudor, Renaissance, 17th century and Neoclassical literature. NR

ENG 17B
SURVEY OF ENGLISH LIT: ROMANTIC MOVEMENT TO THE PRESENT
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: Eligibility for ENG 1A

Covers 1796 to present. Romantic, Victorian, Modern, and Post-Modern literature will be discussed in relation to social and political backgrounds. NR

ENG 18
SHAKESPEARE: THE TRAGEDIES
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: Eligibility for ENG 1A

An in-depth study of representative plays and criticism, illustrating Shakespeare’s mastery of poetic and theatrical techniques and psychological portraiture within the framework of the genre of English Renaissance tragedy. NR
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Lecture Hours</th>
<th>Transfers</th>
<th>Recommended Preparation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 19</td>
<td>SHAKESPEARE: THE COMEDIES</td>
<td>3</td>
<td>3</td>
<td>CSU, UC</td>
<td>Eligibility for ENG 1A</td>
<td>A close study of the nature of Shakespeare’s comedies, illustrating the variety of Shakespearean comedy from farce to fantasy to the serious study of social problems. NR</td>
</tr>
<tr>
<td>ENG 20</td>
<td>SHAKESPEARE: THE HISTORIES</td>
<td>3</td>
<td>3</td>
<td>CSU, UC</td>
<td>Eligibility for ENG 1A</td>
<td>A study of Shakespeare’s history plays set against their relevant historical backgrounds, together with an exploration of Shakespeare’s purpose in converting history into drama. NR</td>
</tr>
<tr>
<td>ENG 21A</td>
<td>WORLD LITERATURE: ANCIENT TO 17TH CENTURY</td>
<td>3</td>
<td>3</td>
<td>CSU, UC</td>
<td>Eligibility for ENG 1A</td>
<td>A survey of major authors and literary forms from antiquity to 17th century from world cultures. NR</td>
</tr>
<tr>
<td>ENG 21B</td>
<td>WORLD LITERATURE: 17TH CENTURY TO MODERN PERIOD</td>
<td>3</td>
<td>3</td>
<td>CSU, UC</td>
<td>Eligibility for ENG 1A</td>
<td>A survey of major authors and literary forms from the 17th century to the modern period from world cultures. NR</td>
</tr>
<tr>
<td>ENG 22</td>
<td>INTRODUCTION TO SHORT STORY WRITING</td>
<td>3</td>
<td>3</td>
<td>CSU, UC</td>
<td>Eligibility for ENG 1A</td>
<td>Written as a short story with an emphasis on contemporary publishing standards and an analysis of the theories behind this process. NR</td>
</tr>
<tr>
<td>ENG 23</td>
<td>WRITING THE FICTION AND/OR NONFICTION BOOK</td>
<td>3</td>
<td>3</td>
<td>CSU, UC</td>
<td>Eligibility for ENG 1A or 3</td>
<td>Designed to assist students in the planning, development, and marketing of book-length fiction and non-fiction. NR</td>
</tr>
<tr>
<td>ENG 24</td>
<td>ETHNIC VOICES IN LITERATURE: THE AMERICAN EXPERIENCE</td>
<td>3</td>
<td>3</td>
<td>CSU, UC</td>
<td>Eligibility for ENG 1A</td>
<td>Examines literary works of African-American, Native-American, Arab-American, Asian-American, and Latino/Hispanic authors. Focuses on such themes as the American experience, self and family, self and religion, self and culture, self and nature, cultural conflict, war and peace. Comparisons and contrasts the styles and techniques of the authors. Focuses on social, philosophical, spiritual, and ethical values of the literature. Develops criteria for evaluating literature. NR</td>
</tr>
</tbody>
</table>
ENG 142
CHILDREN’S LITERATURE
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: ENG 1A
Covers basic information about children’s cognitive development, the history of children’s literature, types of literature available for children from pre-school to junior high age, major authors and illustrators of children’s books. Focuses on the literary heritage of children’s books from classic to modern. Literary analysis from a variety of critical perspectives; research into current issues in children’s books. NR

ENG 160
LITERARY MAGAZINE
3 Units; 3 hours lecture; 1 hour lab
Transfers: CSU
Recommended Preparation: ENG 1A, 1AH, or 3
An introduction and practice in the distinctive elements of literary magazine production, providing firsthand experience in the various phases of editing and publishing a small press literary magazine. NR

ENG 180
SPEED READING AND COMPREHENSION TRAINING
3 Units; 3 hours lecture
Transfers: CSU
Designed to improve critical awareness, to double or triple the students’ initial reading rate(s) while maintaining comprehension, and to expand college-level vocabulary. Reading flexibility is emphasized with attention to learning how to rapid read, skim, scan, study read, and read critically. NR

ENG 190
ACADEMIC READING: SUCCESS AND STRATEGIES FOR COLLEGE
3 Units; 3 hours lecture
Transfers: CSU
Designed to improve students’ abilities for college-level work. Introduces various Learning strategies to improve textbook reading as applied to all stages of academic reading. Critical thinking, summary writing, note-taking and test taking skills will be stressed, as well as time budgeting and memory techniques. NR

ENG 200
FUNDAMENTALS OF COMPOSITION
4 Units; 4 hours lecture
Prerequisite: Satisfactory score on the English Placement Examination or completion of ENG 300, 340, or comparable course with a grade of “C” or better
Focusses on developmental writing, culminating in thesis-driven short essays and totaling at least 5,000 words for the semester. Students will complete reading analyses, in-class writing, and out-of-class assignments to prepare for successful writing across the disciplines. NR

ENG 210
WRITING CENTER
0.5 Unit; 1.5 hours learning center
The Writing Center is designed to be taken in conjunction with any college course requiring written assignments inclusive of but not limited to, courses in the social and behavioral sciences; liberal arts; health sciences; and fine arts. Emphasizes individualized instruction and writing skills. Specific course content varies with student need and ability. This course is offered as an open-entry/open-exit course. This course is offered on a pass/no pass basis (formerly ENG 310). NR

ENG 221
ACADEMIC READING: HUMAN ANATOMY
1 Unit; 1 hour lecture
Designed to improve reading comprehension and academic success in the subject area of human anatomy. The student will use course materials from the BIO 11, Human Anatomy, class to improve academic reading comprehension, apply study skills strategies, and develop discipline-specific vocabulary. NR

ENG 222
ACADEMIC READING: PHYSIOLOGY
1 Unit; 1 hour lecture
Designed to improve reading comprehension and academic success in the subject area of physiology. The student will use course materials from the BIO 12, Human Physiology, class to improve academic reading comprehension, apply study skills strategies, and develop discipline-specific vocabulary. NR

ENG 267
NOVEL WORKSHOP: REVISION MANUSCRIPTS FOR PUBLICATION
3 Units; 3 hours lecture
Recommended Preparation: Eligibility for ENG 1A or 3
An intensive analysis of the elements of dramatic fictional structure through student examination of works in progress. Revision of manuscripts to meet contemporary publication standards. Students enrolled in this course should be presently working on a novel or story-based manuscript. NR

ENG 300
BEGINNING WRITING
3 Units; 3 hours lecture
Corequisite: ENG 301
A beginning-level writing course designed to develop writing fluency through instruction in the writing process—pre-writing, drafting, revising, editing—as well as the rules of Standard Written English. Students will learn to communicate a serious idea to an audience by writing short essays, both in and out of class, based on their experiences. Improves ability to derive information from a text, summarize short essays, support a thesis statement with details and examples, and apply the rules of punctuation and grammar to original writing. NR

ENG 301
BEGINNING WRITING LAB
0.25 Unit; 1 hour lab
Corequisite: ENG 300
Lab designed to complement the writing techniques taught in English 300, Beginning Writing. Four modules will include the following: prewriting; paragraph development; sentence combining; grammar, usage, and punctuation. NR

NR
ENG 332A
READING AND VOCABULARY SKILLS LABORATORY-ESL
BASIC
0.5 Unit; 1.5 hours learning center
An entry-level lab designed for ESL students to supplement courses requiring English language proficiency, inclusive of courses in, but not limited to, the social and behavioral sciences; health sciences; liberal arts; fine arts; business science; and math, science and engineering. Emphasis is on individual instruction responding to diagnosed needs or problems and on practice to improve language-related skills. Areas to be covered include spelling, reading comprehension, textbook reading, and vocabulary development. This is an open-entry/open-exit class. This course is offered on a pass/no pass basis.

ENG 332B
READING AND VOCABULARY SKILLS LABORATORY - ESL INTERMEDIATE
0.5 Unit; 1.5 hours learning center
An intermediate-level lab designed for ESL students to supplement courses requiring English language proficiency, inclusive of courses in, but not limited to, the social and behavioral sciences; health sciences; liberal arts; fine arts; business science; and math, science and engineering. Emphasis is on individual instruction responding to diagnosed needs or problems and on practice to improve language-related skills. Areas to be covered include spelling, inferential reading comprehension, vocabulary development, and writing. This is an open-entry/open-exit class. This course is offered on a pass/no pass basis.

ENG 332C
READING AND VOCABULARY SKILLS LABORATORY - ESL ADVANCED
0.5 Unit 1.5 hours learning center
An advanced-level lab designed for ESL students to supplement courses requiring English language proficiency, inclusive of courses in, but not limited to, the social and behavioral sciences; health sciences; liberal arts; fine arts; business science; and math, science and engineering. Emphasis is on individual instruction responding to diagnosed needs or problems and on practice to improve language-related skills. Areas to be covered include spelling, interpretive/applied reading comprehension, vocabulary development, and writing. This is an open-entry/open-exit class. This course is offered on a pass/no pass basis.

ENG 333A
READING SKILLS LABORATORY BASIC
0.5 Unit; 1.5 hours learning center
A basic lab designed as a supplement to any college course requiring proficiency in reading inclusive of but not limited to, the social and behavioral sciences; health sciences; liberal arts; fine arts; business science; and math, science and engineering. Emphasis is on individual instruction and practical application in order to strengthen and reinforce student skills in one or more of the following areas: comprehension, vocabulary, spelling, and study skills. This is an open-entry/open-exit class. This course is offered on a pass/no pass basis.

ENG 333B
READING SKILLS LABORATORY INTERMEDIATE
0.5 Unit; 1.5 hours learning center
An intermediate-level lab designed as a supplement to any college course requiring proficiency in reading inclusive of but not limited to, the social and behavioral sciences; health sciences; liberal arts; fine arts; business science; and math, science and engineering. Emphasis is on individual instruction and practical application in order to strengthen and reinforce student skills in one or more of the following areas: comprehension, vocabulary, spelling, and study skills. This is an open-entry/open-exit class. This course is offered on a pass/no pass basis.

ENG 333C
READING SKILLS LABORATORY ADVANCED
0.5 Unit; 1.5 hours learning center
An advanced-level lab designed as a supplement to any college course requiring proficiency in reading inclusive of but not limited to, the social and behavioral sciences; health sciences; liberal arts; fine arts; business science; and math, science and engineering. Emphasis is on individual instruction and practical application in order to strengthen and reinforce student skills in one or more of the following areas: comprehension, vocabulary, spelling, reading rate, and study skills. This is an open-entry/open-exit class. This course is offered on a pass/no-pass basis.

ENG 334
SPELLING SKILLS FOR COLLEGE
2 Units; 2 hours lecture
Corequisite: ENG 335
Designed to help students identify individual spelling deficiencies and learn basic spelling rules. The causes of spelling errors and correct pronunciation will be discussed. Through classroom instruction, lab use and testing, students will learn to sharpen their spelling ability.

ENG 335
SPELLING LABORATORY
0.5 Unit; 1.5 hours lab
Corequisite: ENG 334
Designed to complement the spelling skills taught in ENG 334. Includes diagnosis of individual spelling deficiencies and through individualized instruction, students will sharpen their spelling skills.
ENG 340
READING AND WRITING SKILLS FOR COLLEGE
3 Units; 3 hours lecture
Corequisite: ENG 341
Designed to bring students’ reading abilities and study skills to college-level proficiency. Emphasis is on individual help and careful progress to develop reading confidence and ease. NR

ENG 341
READING LABORATORY
0.5 Unit; 1.5 hours lab
Corequisite: ENG 340
Designed to complement the reading skills taught in ENG 340, Reading and Writing Skills for College. Includes work in reading comprehension, reading rate, vocabulary, study skills, and writing. NR

ENG 343
ACADEMIC READING AND STUDY SKILL FOR CONTENT AREA LAB
0 Unit; 1.5 hours lab
Provides individualized, discipline specific instruction in how to understand, organize and assimilate information in college textbook readings. Contextualized instruction and practice in strategies such as annotation, Cornell note-taking, effective test taking strategies and creating concept maps will be provided. In addition, specific content area vocabulary knowledge will be emphasized. This is an open-entry/open-exit class. NR

ENG 345
BUILDING BASIC READING SKILLS
3 Units; 3 hours lecture
Corequisite: ENG 346
Recommended for students whose reading placement scores indicate a substantial need for reading improvement. Focuses on literal comprehension skills such as stated main idea, implied main idea, major/minor details, sequence, and constructing written summaries of a reading. Materials will be at the student’s instructional reading level and range from expository readings to novels and short stories. Vocabulary skills will be developed through instruction in use of context clues and word parts and through extensive recreational reading. Students will develop time management and study techniques. NR

ENG 346
BASIC READING SKILLS LAB
0.5 Unit; 1.5 hours lab
Corequisite: ENG 345
Expands and enhances the reading instruction in ENG 345 through an individualized program designed to meet each student’s needs. NR

ENG 390
INTRODUCTION TO COLLEGE ENGLISH
4 Units; 4 hours lecture
A course that offers an accelerated pathway to ENG 1A, with preparation in academic reading, writing, and critical thinking necessary for transfer and associate-degree classes. Successful completion of this course allows students to enroll in ENG 1A only at Saddleback College. NR

ESL 320
BEGINNING MULTISKILLS I
0 Unit; 6 hours lecture (R-E-4)
A low-beginning course in English for non-native speakers. Emphasis is on speaking, listening, reading, writing, grammar, and vocabulary. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.

ESL 321
BEGINNING MULTISKILLS II
0 Unit; 6 hours lecture (R-E-4)
A high-beginning course in English for non-native speakers. Emphasis is on listening, speaking, reading, writing, grammar, and vocabulary. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.

ESL 322
BEGINNING CONVERSATION
0 Unit; 3 hours lecture (R-E-4)
3 Units; 3 hours lecture (NR)
Initiates the ESL conversation series with emphasis on everyday conversation. Topics encompass basic oral/aural skills students need for survival. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.

ESL 323
BEGINNING PRONUNCIATION
0 Unit; 3 hours lecture (R-E-4)
3 Units; 3 hours lecture (NR)
Designed to enable students to recognize and reproduce the sounds and intonation patterns of American English. Through intensive pronunciation drills, listening activities, free speaking, and reading of selected simplified passages, students develop confidence in speaking situations. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.
ESL 325
BEGINNING READING AND WRITING
0 Unit; 3 hours lecture (R-E-4)
3 Units; 3 hours lecture (NR)
Recommended Preparation: ESL 320
Designed for the non-native speaker of English focusing on beginning-level reading and writing skills. Emphasis in writing is on beginning-level sentence patterns, basic spelling, basic conventions of standard written English, and basic paragraph forms. Emphasis in reading is on literal comprehension. Expansion of vocabulary is emphasized. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.

ESL 330
INTERMEDIATE MULTISKILLS I
0 Unit; 6 hours lecture (R-E-4)
6 Units; 6 hours lecture (NR)
Recommended Preparation: ESL 321
A low-intermediate course in English for non-native speakers. Emphasis is on further development in listening, speaking, reading, writing, grammar and vocabulary. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.

ESL 331
INTERMEDIATE MULTISKILLS II
0 Unit; 6 hours lecture (R-E-4)
6 Units; 6 hours lecture (NR)
Recommended Preparation: ESL 330
A high-intermediate English course for non-native speakers. Emphasis is on listening, speaking, reading, writing, grammar, and vocabulary. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.

ESL 332
INTERMEDIATE CONVERSATION
0 Unit; 3 hours lecture (R-E-4)
3 Units; 3 hours lecture (NR)
Recommended Preparation: ESL 321 or 322
The second in the ESL conversation series emphasis on both formal and informal expression and conversation in American English. Topics and vocabulary are expanded. May be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.

ESL 333
INTERMEDIATE PRONUNCIATION
0 Unit; 3 hours lecture (R-E-4)
3 Units; 3 hours lecture (NR)
Recommended Preparation: ESL 323
An intermediate-level pronunciation course designed for non-native speakers which enables students to recognize, distinguish, and produce the sounds and intonation patterns of American English. Students continue to develop confidence in speaking and comprehension through extensive practice, imitation, sound discrimination, dialogue, response, and reading. This course may be offered for zero units on an open entry/open-exit basis. The unit version of this course is not open entry/open-exit and may not be repeated.

ESL 334
INTERMEDIATE WRITING I
0 Unit; 3 hours lecture (R-E-4)
3 Units; 3 hours lecture (NR)
Prerequisite: ESL 321 or 325
Recommended Preparation: ESL 331 or 332
Designed for the non-native speaker of English focusing on low intermediate-level writing skills. Emphasis is on gaining control of low-intermediate level sentence patterns, basic conventions of standard written English, and basic paragraph forms. Reading, vocabulary, and grammar activities support and supplement writing instruction. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.

ESL 335
INTERMEDIATE WRITING II
0 Unit; 3 hours lecture (R-E-4)
3 Units; 3 hours lecture (NR)
Prerequisite: ESL 330 or 333
Corequisite: ESL 301
Designed for the non-native speaker of English focusing on high-intermediate-level writing skills. Emphasis on high-intermediate-level sentence patterns, conventions of standard written English, and paragraph forms. Reading, vocabulary, and grammar activities support and supplement writing instruction. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.

ESL 336
ADVANCED CONVERSATION
0 Unit; 3 hours lecture (R-E-4)
3 Units; 3 hours lecture (NR)
Recommended Preparation: ESL 331
An advanced English course for non-native speakers, incorporating academic skills. Emphasis is on further development in listening, speaking, reading, writing, grammar, and vocabulary in general and academic contexts. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.

ESL 337
ADVANCED MULTISKILLS I
0 Unit; 6 hours lecture (R-E-4)
6 Units; 6 hours lecture (NR)
Recommended Preparation: ESL 331
An advanced English course for non-native speakers, incorporating academic skills. Emphasis is on further development in listening, speaking, reading, writing, grammar, and vocabulary in general and academic contexts. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.

ESL 338
ADVANCED MULTISKILLS II
0 Unit; 6 hours lecture (R-E-4)
6 Units; 6 hours lecture (NR)
Recommended Preparation: ESL 337
An advanced English course for non-native speakers, incorporating academic skills. Emphasis is on further development in listening, speaking, reading, writing, grammar, and vocabulary in general and academic contexts. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.
ESL 343
ADVANCED PRONUNCIATION
0 Unit; 3 hours lecture (R-E-4)
3 Units; 3 hours lecture (NR)
Recommended Preparation:
ESL 333
Completes the ESL pronunciation sequence. Emphasis on accent reduction, pronunciation accuracy, auditory discrimination, conversation techniques, and selective listening skills. Develops stress distinctions and intonation patterns in order to communicate intent and meaning. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.

ESL 344
IDIOMS AND EXPRESSIONS IN AMERICAN ENGLISH
0 Unit; 3 hours lecture (R-E-4)
3 Units; 3 hours lecture (NR)
Recommended Preparation:
ESL 331
An advanced vocabulary course focusing on the idioms and expressions of American English. Designed to help non-native speakers understand and use, in both speech and writing, common and useful English idioms and expressions. Introduces phrasal verbs and collocations. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.

ESL 345
ADVANCED WRITING I
0 Unit; 3 hours lecture (R-E-4)
3 Units; 3 hours lecture (NR)
Prerequisite: ESL 331 or 336
Corequisite: ESL 802
Advanced academic English course for non-native speakers designed to improve reading comprehension and written communication skills necessary for college-level work. Summarize articles, take notes on lectures from a variety of academic disciplines, master specialized vocabulary, and discuss current issues. Develop fluency and confidence by writing and rewriting paragraphs and short essays. Paraphrasing, quoting, citing, and documenting are included. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.

ESL 346
ADVANCED WRITING FOR WORK
0 Unit; 3 hours lecture (R-E-4)
3 Units; 3 hours lecture (NR)
Recommended Preparation:
ESL 331 or 336
Designed to improve non-native speakers' reading comprehension and written communication skills necessary for advanced-level work using “real world” texts. Students summarize examples of American business and technical communication, design, write, and analyze different communication examples of memoranda, letters, descriptions, instructions, and other reports focusing on impact, accuracy, and clarity in relation to audience and purpose. Students also review sentence structure and grammar as needed. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.

ESL 347
ADVANCED GRAMMAR REVIEW
0 Unit; 3 hours lecture (R-E-4)
3 Units; 3 hours lecture (NR)
Corequisite: ESL 901
Recommended Preparation:
ESL 331
Begins the advanced, rapidly-paced grammar sequence for non-native speakers of English. Emphasis is on structures particularly difficult for non-native speakers such as the English verb system in all tenses and aspects, including passive voice, modals, and modal-like expressions. Writing of original sentences, applying correct structure and stresses appropriate punctuations. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.

ESL 348
ESSENTIAL ACADEMIC SKILLS
0 Unit; 6 hours lecture (R-E-4)
6 Units; 6 hours lecture (NR)
Prerequisite: ESL 340 or 345
Advanced academic English course for non-native speakers designed to improve reading comprehension and written communication skills necessary for college-level work. Summarize articles, take notes on lectures from a variety of academic disciplines, master specialized vocabulary, and discuss current issues. Develop fluency and confidence by writing and rewriting paragraphs and short essays. Paraphrasing, quoting, citing, and documenting are included. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.

ESL 349
VOCABULARY SKILLS FOR COLLEGE
0 Unit; 3 hours lecture (R-E-4)
3 Units; 3 hours lecture (NR)
Recommended Preparation:
ESL 340
Designed to help non-native speakers of English expand and acquire a college-level vocabulary and idiomatic expressions necessary for academic and vocational courses. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.

ESL 350
ESSENTIAL ACADEMIC SKILLS
0 Unit; 6 hours lecture (R-E-4)
6 Units; 6 hours lecture (NR)
Prerequisite: ESL 340 or 345
Advanced academic English course for non-native speakers designed to improve reading comprehension and written communication skills necessary for college-level work. Summarize articles, take notes on lectures from a variety of academic disciplines, master specialized vocabulary, and discuss current issues. Develop fluency and confidence by writing and rewriting paragraphs and short essays. Paraphrasing, quoting, citing, and documenting are included. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.

ESL 351
ESSENTIAL ACADEMIC SKILLS
0 Unit; 6 hours lecture (R-E-4)
6 Units; 6 hours lecture (NR)
Prerequisite: ESL 340 or 345
Advanced academic English course for non-native speakers designed to improve reading comprehension and written communication skills necessary for college-level work. Summarize articles, take notes on lectures from a variety of academic disciplines, master specialized vocabulary, and discuss current issues. Develop fluency and confidence by writing and rewriting paragraphs and short essays. Paraphrasing, quoting, citing, and documenting are included. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.

ESL 352
ESSENTIAL ACADEMIC SKILLS
0 Unit; 6 hours lecture (R-E-4)
6 Units; 6 hours lecture (NR)
Prerequisite: ESL 340 or 345
Advanced academic English course for non-native speakers designed to improve reading comprehension and written communication skills necessary for college-level work. Summarize articles, take notes on lectures from a variety of academic disciplines, master specialized vocabulary, and discuss current issues. Develop fluency and confidence by writing and rewriting paragraphs and short essays. Paraphrasing, quoting, citing, and documenting are included. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.

ESL 353
ESSENTIAL ACADEMIC SKILLS
0 Unit; 6 hours lecture (R-E-4)
6 Units; 6 hours lecture (NR)
Prerequisite: ESL 340 or 345
Advanced academic English course for non-native speakers designed to improve reading comprehension and written communication skills necessary for college-level work. Summarize articles, take notes on lectures from a variety of academic disciplines, master specialized vocabulary, and discuss current issues. Develop fluency and confidence by writing and rewriting paragraphs and short essays. Paraphrasing, quoting, citing, and documenting are included. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.

ESL 354
ESSENTIAL ACADEMIC SKILLS
0 Unit; 6 hours lecture (R-E-4)
6 Units; 6 hours lecture (NR)
Prerequisite: ESL 340 or 345
Advanced academic English course for non-native speakers designed to improve reading comprehension and written communication skills necessary for college-level work. Summarize articles, take notes on lectures from a variety of academic disciplines, master specialized vocabulary, and discuss current issues. Develop fluency and confidence by writing and rewriting paragraphs and short essays. Paraphrasing, quoting, citing, and documenting are included. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.

ESL 355
ESSENTIAL ACADEMIC SKILLS
0 Unit; 6 hours lecture (R-E-4)
6 Units; 6 hours lecture (NR)
Prerequisite: ESL 340 or 345
Advanced academic English course for non-native speakers designed to improve reading comprehension and written communication skills necessary for college-level work. Summarize articles, take notes on lectures from a variety of academic disciplines, master specialized vocabulary, and discuss current issues. Develop fluency and confidence by writing and rewriting paragraphs and short essays. Paraphrasing, quoting, citing, and documenting are included. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.

ESL 356
ESSENTIAL ACADEMIC SKILLS
0 Unit; 6 hours lecture (R-E-4)
6 Units; 6 hours lecture (NR)
Prerequisite: ESL 340 or 345
Advanced academic English course for non-native speakers designed to improve reading comprehension and written communication skills necessary for college-level work. Summarize articles, take notes on lectures from a variety of academic disciplines, master specialized vocabulary, and discuss current issues. Develop fluency and confidence by writing and rewriting paragraphs and short essays. Paraphrasing, quoting, citing, and documenting are included. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.

ESL 357
ESSENTIAL ACADEMIC SKILLS
0 Unit; 6 hours lecture (R-E-4)
6 Units; 6 hours lecture (NR)
Prerequisite: ESL 340 or 345
Advanced academic English course for non-native speakers designed to improve reading comprehension and written communication skills necessary for college-level work. Summarize articles, take notes on lectures from a variety of academic disciplines, master specialized vocabulary, and discuss current issues. Develop fluency and confidence by writing and rewriting paragraphs and short essays. Paraphrasing, quoting, citing, and documenting are included. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.

ESL 358
ESSENTIAL ACADEMIC SKILLS
0 Unit; 6 hours lecture (R-E-4)
6 Units; 6 hours lecture (NR)
Prerequisite: ESL 340 or 345
Advanced academic English course for non-native speakers designed to improve reading comprehension and written communication skills necessary for college-level work. Summarize articles, take notes on lectures from a variety of academic disciplines, master specialized vocabulary, and discuss current issues. Develop fluency and confidence by writing and rewriting paragraphs and short essays. Paraphrasing, quoting, citing, and documenting are included. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.

ESL 359
ESSENTIAL ACADEMIC SKILLS
0 Unit; 6 hours lecture (R-E-4)
6 Units; 6 hours lecture (NR)
Prerequisite: ESL 340 or 345
Advanced academic English course for non-native speakers designed to improve reading comprehension and written communication skills necessary for college-level work. Summarize articles, take notes on lectures from a variety of academic disciplines, master specialized vocabulary, and discuss current issues. Develop fluency and confidence by writing and rewriting paragraphs and short essays. Paraphrasing, quoting, citing, and documenting are included. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.

ESL 360
ESSENTIAL ACADEMIC SKILLS
0 Unit; 6 hours lecture (R-E-4)
6 Units; 6 hours lecture (NR)
Prerequisite: ESL 340 or 345
Advanced academic English course for non-native speakers designed to improve reading comprehension and written communication skills necessary for college-level work. Summarize articles, take notes on lectures from a variety of academic disciplines, master specialized vocabulary, and discuss current issues. Develop fluency and confidence by writing and rewriting paragraphs and short essays. Paraphrasing, quoting, citing, and documenting are included. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.
**ESL 356**
**ACADEMIC SUCCESS STRATEGIES FOR ESL STUDENTS**

0 Unit; 3 hours lecture (R-E-4)  
3 Units; 3 hours lecture (NR)  
**Recommended Preparation:** ESL 340 or 345 or 358  
This course is designed to improve advanced ESL students' academic language skills and likelihood of academic success. Using lecture and textbook materials from a college level course, students will develop study and test-taking strategies, academic discipline-specific vocabulary, classroom participation skills, reading, writing, and note-taking skills. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.

**ESL 357**
**GRAMMAR REVIEW FOR COLLEGE**

0 Unit; 3 hours lecture (R-E-4)  
3 Units; 3 hours lecture (NR)  
**Corequisite:** ESL 902  
**Recommended Preparation:** ESL 331, 337  
Completes the advanced, rapidly-paced grammar sequence for non-native speakers of English. Emphasis is on structures particularly difficult for speakers of English as a second language such as gerunds and infinitives in both active and passive voice, and noun, adjective, and adverb clauses, including clauses of condition. Writing of original compound and complex sentences with appropriate transitions and punctuation is stressed. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.

**ESL 359**
**AMERICAN LANGUAGE AND CULTURE THROUGH FILM**

0 Unit; 3 hours lecture (R-E-4)  
3 Units; 3 hours lecture (NR)  
**Recommended Preparation:** ESL 331  
In this content-based course, students are introduced to selected periods of American history and aspects of American culture through film. Discussion and writing assignments are based on background readings which complement these films. Film provides students with visual, kinesthetic and auditory modes of learning which makes it a highly effective method of enhancing second or foreign-language acquisition. It also offers opportunities to learn idiomatic expression, pronunciation and vocabulary as well as improve listening comprehension while gaining insight into American culture. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.

**ESL 801**
**INTERMEDIATE WRITING II LAB**

0 Unit; 1.5 hours lab (R-E-4)  
0.5 Unit; 1.5 hours lab (NR)  
**Corequisite:** ESL 336  
Enhances and provides practice in skills learned in ESL 336. Focus is on the development of spelling, vocabulary, grammar, and reading skills leading to improved writing. This course is offered for zero units on an open entry/open exit basis. The unit version of this course is not open entry/open exit and may not be repeated.

**ESL 802**
**ADVANCED WRITING I LAB**

0 Unit; 1.5 hours lab  
**Corequisite:** ESL 345  
Enhances and provides practice in skills learned in ESL 345. Focus is on the development of spelling, vocabulary, grammar, punctuation and reading skills leading to improved writing. This course is offered for zero units on an open entry/open exit basis. The unit version of this course is not open entry/open exit and may not be repeated.  

**ESL 808**
**ADVANCED WRITING I LAB**

0 Unit; 1.5 hours lab  
**Corequisite:** ESL 345  
Requires concurrent enrollment in ESL 345, Advanced Writing I. Enhances and provides practice in skills learned in ESL 345. Focus is on the development of spelling, vocabulary, grammar, punctuation and reading skills leading to improved writing. Students may attend the lab at any time on a first-come, first-served basis. The unit version of this course is not repeatable.  

**ESL 901**
**ADVANCED GRAMMAR REVIEW LAB**

0 Unit; 1 hour learning center (R-E-4)  
0.25 Unit; 1 hour learning center (NR)  
**Corequisite:** ESL 347  
Enhances and provides practice in skills learned in ESL 347. Provides opportunities for students to practice grammar constructions that are difficult for non-native speakers of English, such as correct form and function of verb tenses in passive and active voice, modal and modal-like constructions. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.

**ESL 902**
**GRAMMAR REVIEW FOR COLLED LAB**

0 Unit; 1 hour learning center (R-E-4)  
0.5 Unit; 1 hour learning center (NR)  
**Corequisite:** ESL 357  
Enhances and provides practice in skills learned in ESL 357. Provides opportunities for students who are non-native speakers to practice compound and complex sentences and their grammar constructions, such as gerunds and infinitives in both active and passive voice, and noun, adjective, adverb, and conditional phrases. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may not be repeated.
ESL 903
ESL LANGUAGE LAB
0 Unit; 1 hour learning center
Provides additional practice in a computer lab, enhancing language learning in reading, writing, grammar, speaking, listening, vocabulary and pronunciation for students who want additional support in their varied ESL courses. This is an open-entry/open-exit class. R-E-99

Entertainment and Theatre Technology

ETT 40
STAGECRAFT
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU, UC
Introduces students to the principles and techniques of stagecraft, including basic concepts of design, painting techniques, set construction, set movement, prop construction, backstage organization, lighting, sound, costumes, stage management, and career possibilities. Lecture, reading, projects, and practical experience through lab and crew. NR

ETT 41
LIGHTING DESIGN FUNDAMENTALS
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU, UC
Prerequisite: ETT 40
The study and execution of stage lighting with emphasis on equipment, control, and color and their relationship to design. Activities involve reading a light plot, hanging and focusing a show, the use of computer light boards, and basic introduction to electricity, as well as participation as a crew person or construction member on Theatre Arts department productions. NR

ETT 42
COSTUME DESIGN
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU, UC
Involves the study of the principles of costume design, the basic process of design, character analysis, and rendering techniques. A survey of fashion history will be included in the lectures. Crew assignments for major productions will provide practice in construction techniques. NR

ETT 45
INTRODUCTION TO SCENIC DESIGN
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU, UC
Prerequisite: ETT 40
The study of set design with emphasis on imagination, text analysis, metaphor, and conceptualization. Study of the history of set design and its practitioners. Investigation of design research process, composition, and style leading to visual presentation of design for theatre and the entertainment industry. NR

ETT 100
APPLIED TECHNICAL THEATRE PRODUCTION
2 Units; 1 hour lecture; 4 hours lab
Transfers: CSU
Recommended Preparation: MATH 351
Focuses on pre-production skills and techniques needed prior to opening a theatrical production. Designed for those interested in a career in technical theatre. NR

ETT 101
FUNDAMENTALS OF DESIGN AND GRAPHICS FOR THEATRE
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Prerequisite: ETT 40
Explores the techniques used to communicate visual ideas in the theatrical and entertainment industry, the use of hand-drawing, drafting, basic perspective and supporting computer applications are emphasized. Historical and contemporary concepts and practices in the visual arts of theatre and entertainment (formerly TA 101). NR

ETT 103
ENTERTAINMENT INTERNSHIP
1 Unit; 1 hour lecture
Transfers: CSU
Analyse and apply techniques of job application, interviewing, resume writing, and portfolio presentation specific to the entertainment industry. NR

ETT 142
THEATRE PRODUCTION
1 Unit; 0.5 hours lecture; 2 hours lab
Transfers: CSU
Covers basic terminology, safety, lighting, and stagecraft equipment and techniques, as well as the production and running of theatrical shows. R-E-3

ETT 144
THEATRE SCENERY PAINTING
2 Units; 1 hour lecture; 3 hours lab
Transfers: CSU
A study of the elements of theatrical scenery painting, including historical and present-day methods with practical applications through class efforts of scenery painting, as well as individual scene-painting projects. NR

ETT 240
ADVANCED STAGECRAFT
3 Units; 2 hours lecture; 3 hours lab
Prerequisite: ETT 40
Principles and techniques of stagecraft, with emphasis on stage properties, alternative materials, computer usage as it relates to automation and organization at theatrical events, automated lighting, alternate spaces, and special effects. Also explores stagecraft as a profession and as it relates to all entertainment, including film, television, and theme parks. NR

ETT 242
STYLES OF PAINT FOR THE ENTERTAINMENT INDUSTRY
3 Units; 2 hours lecture; 3 hours lab
Recommended Preparation: ETT 244
Creating themed environments by exploring period style elements through art, architecture, and concepts of set design. Focuses on practical application techniques and studies. Provides an overview of social, cultural, art, architecture, and period styles and décor from antiquity to the modern age of western civilization applicable to theatrical stage design. NR
Environmental Studies

ENV 1
INTRODUCTION TO ENVIRONMENTAL STUDIES
3 Units; 3 hours lecture
Transfers: CSU, UC
Introduction to environmental studies that includes an overview of human activities within the global ecosystem. Examines population growth, energy use, agricultural techniques, water quantity and quality, biodiversity, air quality, and waste disposal, and searches for solutions while exploring future options. NR

ENV 6
SCARCITY AND ENVIRONMENT
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: ENV 1
This course equips students with economic methods and tools to analyze basic environmental issues. This course combines theoretical analysis with discussions on specific environmental policies as applied to water, air pollution, energy, climate change and human health issues. Looks at market failure as a cause of inefficient resource use, depletion, and environmental pollution. Focuses on microeconomic analysis of environmental regulations, the problem of social cost, policy instrument choice, enforcement of regulations, and estimating benefits of environmental improvements. NR

ENV 16
ENVIRONMENTAL DISASTERS
3 Units; 3 hours lecture
Transfers: CSU, UC
Past and current environmental disasters will be examined from a multi-dimensional perspective, considering not only the environmental, public health, and social implications, but also regulatory, scientific and policy issues (formerly ENV 126). NR

ENV 18
INTRODUCTION TO ECOLOGY
4 Units; 3 hours lecture; 3 hours lab
Transfers: CSU, UC
Examines the relationships among organisms (including humans) and their environment, with an emphasis upon understanding the causal mechanisms underlying each phenomenon. Learning activities will include formal laboratory investigations, examination of live animals and plants, and short field trips to surrounding areas. NR

ENV 23
ENVIRONMENTAL GEOLOGY
4 Units; 3 hours lecture; 3 hours lab
Transfers: CSU, UC
Principles of sound planning for the human use of the solid earth. Includes environmental studies of earthquakes, mineral and energy resources, floods, beach erosion, landslides, etc. Field trips may be required to fulfill the objectives of this course. Also listed as GEOL 23 Credit given in either area, not both. NR

ENV 24
NATURAL HISTORY OF CALIFORNIA
4 Units; 3 hours lecture; 3 hours lab
Transfers: CSU, UC
Acquaints the student with the basic physical and biological aspects of the coastal, valley, mountain, and desert environments of California. Field trips are required to fulfill the objectives of the course. NR

ENV 25
ENVIRONMENTAL HAZARDS TO HEALTH
3 Units; 3 hours lecture
Transfers: CSU, UC
Provides an overview of the relationship between environmental pollutants and human health. Includes the general principles of water, soil, and air pollution, of chemical and radiation poisoning, of hazardous waste management and environmental change and of other hazards that challenge human health and well-being. NR

ENV 30
ALTERNATIVE ENERGY TECHNOLOGIES
3 Units; 3 hours lecture
Transfers: CSU, UC
An introductory course presenting alternative energy policies and technologies that include geothermal, solar, hydroelectric, nuclear, biomass, and wind power. Problems of control, costs, pollution, and potential health hazards will be presented from both political and technical perspectives. NR

ENV 37
ENVIRONMENTAL ETHICS
3 Units; 3 hours lecture
Transfers: CSU, UC
An overview of basic concepts in the methods of examining current environmental issues and methods for creating judicious environmental policy. Examines the ethical issues raised by environmental challenges and various perspectives on determining our moral obligation to the natural environment. Various arguments/positions from several philosophers will be presented. NR
ENV 105
ENVIRONMENTAL STUDIES INTERNSHIP
2 Units; 1.5 hours lecture; 1.5 hours lab
Transfers: CSU
Recommended Preparation: ENV 1
Develop detailed knowledge in the preparation for future environmental work experience through goals and resume development, interview preparation, understanding of team work dynamics, and overview of the on the job site requirements. NR

ENV 106
NATURAL RESOURCE CONSERVATION
3 Units; 3 hours lecture
Transfers: CSU
A comprehensive overview of natural resources and conservation issues. Topics discussed include the history of conservation, including national parks and wildlife conservation, human history in relation to natural resource utilizations, and contemporary natural resource use. Contemporary conservation solutions will be investigated. NR

ENV 123
WATER AND SOIL CONSERVATION
3 Units; 3 hours lecture
Transfers: CSU
Evaluation of major water and soil conservation programs and practices, principles of water and soil degradation by erosion, ground water overdraft, chemical transport, climate, topography, and land usage. Examination of the effects of water and soil pollution on population growth, food production, the environment, the economy, and policy. Identification of potential solutions to improve water and soil conservation. NR

ENV 140
WATER QUALITY AND MONITORING
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Learn how to monitor public drinking water quality through study of Federal and State regulations, water contaminants, laboratory analyses, basic scientific concepts, sample collection techniques, interpretation of monitoring data and record keeping. NR

ENV 141
WATER RESOURCES AND MANAGEMENT
4 Units; 4 hours lecture
Transfers: CSU
The historical, geographical, legal, and economic bases for the distribution and allocation of water, stressing California and the and West; the environmental impact of water use; past and current issues and controversies in water distribution and redistribution. Preparation for American Water Works Association (AWWA) Grade 1 and 2 Water Use Efficiency Practitioner certification. NR

ENV 200
VOLUNTEER NATURALIST TRAINING
2 Units; 1.5 hours lecture; 1.5 hours lab
Prepares individual to lead interpretive tours at a variety of Orange County wilderness areas for various agencies and organizations. Subject matter includes familiarity of plants, animals, ecology, geology, and cultural history of the region. Useful for those interested in becoming a park docent. NR

ENV 202
GREEN LIVING
2 Units; 2 hours lecture
Practical solutions that can be implemented in daily life in order to reduce one’s ecological footprint on the planet. Includes an overview of the current global environment and practical solutions in reducing environmental impact. NR

ENV 203
CERTIFIED INTERPRETIVE GUIDE TRAINING
2 Units; 2 hours lecture
Offers an opportunity for individuals who work, or would like to work, as guides for parks, museums, or historical landmarks to receive training in interpretive techniques. Participants who successfully complete the program can also earn an internationally recognized certification from National Association for Interpretation. NR

ES 1
MULTICULTURAL EXPERIENCES IN THE UNITED STATES
3 Units; 3 hours lecture
Transfers: CSU, UC
Examines the cultures of African Americans, Asian Americans, Chicanos/as/Latinos/as, Middle Eastern Americans, and Native Americans. Focuses on the topics of historical memory, racial and ethnic identity, immigration status, class differences, gender relations, family structures, sexuality and sexual orientation, and religion, ritual, and healing. Includes an examination of the relationships within and among cultural groups in the United States, and how they interact with the dominant culture (formerly CCS 1 and CCS/ES 2). NR

ES 3
INTRODUCTION TO CHICANA/O AND LATINA/O CULTURES
3 Units; 3 hours lecture
Transfers: CSU, UC
An introduction to Chicana/o and Latina/o cultures in the United States. Includes an overview of the diverse and multiple experiences of people with ancestry from Mexico, Cuba, Puerto Rico, the Dominican Republic, Central America, and South America. The intersections of class, race/ethnicity, cultural identity, and gender will be explored. NR
Family and Consumer Sciences

FCS 115
CONSUMER ISSUES
3 Units; 3 hours lecture
Transfers: CSU
An applied approach to consumer issues and problems enabling one to become an informed consumer. Emphasis on developing skills in personal and family financial management. Includes decision-making, consumer resources, resolving consumer complaints, psychology of the marketplace, financial planning, consumer credit, stretching food dollars, housing, economics through the life cycle, clothing, appliances, energy conservation, transportation, insurance, and health care. NR

FCS 142
LIFE MANAGEMENT
3 Units; 3 hours lecture
Transfers: CSU
Application of principles of family resource management to personal and family settings. Decision-making in the management of time, energy, money, and other resources to student, work, and home situations. Investigate changing roles and lifestyles. Practical applications include balancing home, family, work, and individual responsibilities; household planning; work simplification; budgeting; and management of the household. NR

Fashion

FASH 31
TEXTILES
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU, UC
Fabric selection and care considering fibers, yarns, weaves, knits, finishes, and color. Emphasis is on properties of fibers as related to their end use and consumer understanding of fabric performance. Also listed as BUS 31. Credit given in either area, not both. NR

FASH 100
SEWING FOR FASHION DESIGN I
3 Units; 2.5 hours lecture; 1.5 hours lab
Transfers: CSU
Fundamentals of sewing for the fashion design industry. Introduction to industrial equipment, home and industry patterns, fabric selection, layout and cut and sew techniques. NR

FASH 101
INTRODUCTION TO FASHION CAREERS
3 Units; 3 hours lecture
Transfers: CSU
Explores the fashion industry including the development of fashion and consumer demands, fashion producers, fashion retailers, international fashion centers, marketing concepts, promotion, publishing, and advertising areas. Emphasis placed on current industry and careers. NR

FASH 110
CONTEMPORARY CLOTHING CONSTRUCTION
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Recommended Preparation: FASH 100 or basic sewing skills
Clothing construction methods appropriate for beginners or students wishing to refine their skills. Emphasis is placed on new sewing and fitting techniques for contemporary fabrics and fashion designs, individualizing patterns, and coordinating fabric choices to create the desired fashion image. NR

FASH 111
SEWING FOR FASHION DESIGN II
3 Units; 2.5 hours lecture; 1.5 hours lab
Transfers: CSU
Recommended Preparation: FASH 100
Designed for the student who has completed Sewing for Fashion Design I. Students will continue to build their sewing skills using industrial equipment while constructing the following projects: pants, button down collar shirt and a knit project. Industrial and home sewing techniques will be covered. More challenging fabrics will be used. NR

FASH 112
FASHION SEWING – ADVANCED
3 Units; 2.5 hours lecture; 1.5 hours lab
Transfers: CSU
Recommended Preparation: FASH 111
Application of advanced techniques in construction of garments. Use of designer patterns and adapting patterns for a more personal style. Handling of such special fabrics as velvet, microfibers, sheers, silks, piques, taffetas, and lace. Fine custom details such as lining and underlining. NR

FASH 113
COUTURE SEWING
2 Units; 1 hour lecture; 3 hours lab
Transfers: CSU
Recommended Preparation: FASH 111
Application of custom techniques in construction of haute couture garments. Instruction in fine finishing details such as hand-sewing techniques, trapunto, self-trim applique, and beading. NR

FASH 120
TAILORING
3 Units; 2.5 hours lecture; 1.5 hours lab
Transfers: CSU
Recommended Preparation: FASH 100 or basic sewing skills
Emphasizes tailoring techniques as applied to construction of coats and suits. Stresses hand-tailoring processes including working with wool, hand-rolling collars, and supporting fabrics and linings. Also includes tailoring methods using soft, unconstructed fabrics; new shaping technique; and quick methods of construction. NR

FASH 124
WEARABLE ART
3 Units; 2.5 hours lecture; 1.5 hours lab
Transfers: CSU
Recommended Preparation: FASH 100 or basic sewing skills
Incorporates student's artistic abilities, cultural and ethnic sources, specialty fabrics, needle arts and heirloom sewing to create an artistic wearable garment. Covers design methods, embellishment, surface patterns, and construction of clothing. NR
FASH 130  FLAT PATTERN DESIGN  
4 Units; 4 hours lecture; 1 hour lab  
Transfers: CSU  
Recommended Preparation:  
FASH 100 or basic sewing skills  
Creative fashion and costume design achieved through flat pattern techniques. Use of the basic sloper and construction of half-scale garments. NR

FASH 131  CAD PATTERNMAKING WITH TUKATECH  
3 Units; 2 hours lecture; 3 hours lab  
Transfers: CSU  
Prerequisite: FASH 130  
Designed to teach computerized pattern making skills of garment design using Tukatech software. Course includes drafting basic pattern blocks (slopers), manipulating or creating new darts, adding fullness, creating pleats and making new seams on computer program. Tukatech adds computerized flat-pattern dimension to traditional flat pattern and provides a better understanding of the processes involved in producing ready-to-wear or custom apparel. NR

FASH 132  DRAPING FASHION DESIGNS  
3 Units; 2.5 hours lecture; 1.5 hours lab  
Transfers: CSU  
Recommended Preparation:  
FASH 100 or basic sewing skills  
Creative apparel designing using fabric-draping techniques on a dress form with application to the individual. NR

FASH 136  APPAREL DESIGN  
3 Units; 2.5 hours lecture; 1.5 hours lab  
Transfers: CSU  
Recommended Preparation:  
FASH 130  
Designed to teach the basic skills of garment design: how designers develop a line, sources of inspiration, trend reports, and the elements of a successful apparel line. Course includes garment sketch, line presentation, sourcing, cost sheets, garment specs and taking your line to market. NR

FASH 140  FASHION IMAGE  
3 Units; 3 hours lecture  
Transfers: CSU  
Aims to help men and women to look and dress their best, taking into account personal style, lifestyle, goals and budget. Provides tools for evaluating your individual style, accentuating your assets, becoming aware of color, proportion and fit. Professional fashion styling, image management and photo shoots will be included. NR

FASH 141  APPAREL SELECTION  
3 Units; 3 hours lecture  
Transfers: CSU  
Concepts of apparel selection for professional and personal needs based on design, culture, image and lifestyles. Includes the study of sociological, physiological, and psychological aspects of dress. The fashion professional uses this information to better design, produce, and select products to meet the needs of a culturally diverse consuming population. NR

FASH 143  FASHION BUYING AND MERCHANDISING  
3 Units; 3 hours lecture  
Transfers: CSU  
Study the principles and techniques of merchandising pertinent to the fashion industry including buying fashion, methods of merchandising fashion, and merchandise control. Also listed as BUS 143. Credit given in either area, not both. NR

FASH 144  FASHION TRENDS AND CULTURAL COSTUMES  
3 Units; 3 hours lecture  
Transfers: CSU  
Examines the forces which influence the fashion trends of today by studying the clothing, textiles, arts, and cultures of the past. Covers historical, artistic, socioeconomic, geographic, religious, political, and cultural influences clothing design, textiles, and fashion from ancient to modern civilization. Includes cultures throughout the world. NR

FASH 145  INTERNSHIP  
1 Unit; 1 hour lecture  
Transfers: CSU  
Corequisite: CWE 180  
Supervised and educationally-directed internship. Weekly lectures will relate on-the-job experiences with academic program. To be taken in the final year of program. Also listed as BUS 145. Credit given in either area, not both. NR

FASH 147  SPECIAL EVENTS COORDINATION AND PROMOTION  
3 Units; 2 hours lecture; 3 hours lab  
Transfers: CSU  
Emphasis is on a student-produced fashion event. The course will provide training in fashion promotion and coordination, retail sales, advertising, and merchandising. Also listed as BUS 147. Credit given in either area, not both. NR

FASH 148  VISUAL MERCHANDISING  
3 Units; 2 hours lecture; 3 hours lab  
Transfers: CSU  
Visual merchandising as both an art form and a selling technique in fashion retailing. The use of color, outfit coordination, store layout, fixtures, lighting, signing, outfit coordination, retail sales, advertising, and merchandising. Also listed as BUS 148. Credit given in either area, not both. NR

FASH 150  FASHION APPAREL AND PROFESSIONAL TECHNIQUES  
3 Units; 2.5 hours lecture; 1.5 hours lab  
Transfers: CSU  
Information about fashion designers' ready-to-wear and non-textile merchandise. Includes men's and women's clothing, jewelry, leather, shoes, and accessories. Examination of methods of construction and production, fashion terms, and consumer information. Stresses professional portfolio development and presentation skills for fashion design and merchandising. Students. NR
FASH 154  
**FASHION ILLUSTRATION**  
3 Units; 2.5 hours lecture; 1.5 hours lab  
- Transfers: CSU  
  The study and development of fashion illustration techniques. Included will be the uses and purposes of the four types of fashion drawings: design sketching, production sketching, presentation drawing, and fashion illustration. Emphasis will be placed on the use of croquis and developing freehand sketching skills of the fashion figure in a variety of poses, with attention to the drape texture and pattern of fabric. NR

FASH 204  
**UNDERSTANDING APPAREL PRINCIPLES – AIMS CERTIFICATION**  
1 Unit; 1 hour lecture; 0.5 hours lab  
Learn principles and procedures involved in the business applications of the apparel industry using order processing and manufacturing software. Course will cover distribution, manufacturing and wholesaling using AIMS (Apparel Information Management System), a completely integrated order production and inventory control processing system. Students passing final exam will earn AIMS Certification. NR

FASH 205  
**CORSET CONSTRUCTION**  
3 Units; 2.5 hours lecture; 1.5 hours lab  
- Recommended Preparation: FASH 100 or 110  
  Covers types of corsets, both historical and modern. Students will create their own pattern, learn proper fitting techniques, evaluate suitability of fabric and boning and build a corset from start to finish. NR

FASH 206  
**DESIGNING/CONSTRUCTING KNITWEAR, ACTIVEWEAR, SWIMWEAR**  
3 Units; 2.5 hours lecture; 1.5 hours lab  
- Recommended Preparation: FASH 100  
  Focuses on sewing, constructing, and designing knitwear garments. Specialty techniques, types of knits, industrial machines used with knits, and basic pattern-making will be covered. Students will create garments ranging from tops to bottoms, dresses, activewear, and swimwear. NR

FASH 207  
**ECO-FRIENDLY FASHION TOUR**  
1 Unit; 0.5 hours lecture; 1.5 hours lab  
Learn how professionals in the fashion industry are minimizing their businesses impact on the earth and “going green.” Students will visit designers, retailers, textile manufacturers and “eco-preneurs” to learn how they have become fashion crusaders with light footprints. Includes site visits and on-site lectures and presentations. NR

FASH 208  
**SEWING VINTAGE FASHIONS**  
3 Units; 2.5 hours lecture; 1.5 hours lab  
- Recommended Preparation: FASH 100 and 111  
  Construct garments using vintage sewing patterns. Great for both Fashion and Costuming. Reproduce vintage clothing from 1880 through 1970s using actual and reproduced patterns. Sewing techniques from the past and their modern interpretations will also be examined. Course will include the history and evolution of patterns, sewing machines, sergers, irons, notions and equipment. NR

FASH 209  
**CONSTRUCTION OF CHILDREN’S CLOTHING**  
2 Units; 1 hour lecture; 3 hours lab  
- Recommended Preparation: FASH 100 or basic sewing skills  
  Gain experience in the construction and design of children’s clothing. Use of commercial patterns as well as designing or adapting patterns is an important element. Also includes decorative embellishments, smocking, and needlework suitable for children’s clothing and a study of dressmaker and designer practices. NR

FASH 210  
**CLOTHING CONSTRUCTION STUDIO**  
1 Unit; 3 hours lab  
Add to your sewing knowledge and make your chosen special garment(s) using the expertise of fashion instructors and industrial sewing machines. Student may pursue individual projects or complete work in progress. NR

FASH 211  
**ADVANCED DRESSMAKING AND CUSTOM SEWING**  
3 Units; 2.5 hours lecture; 1.5 hours lab  
- Recommended Preparation: FASH 111 and 130  
  Application of advanced techniques in the construction of specialty, custom and couture/designer garments. Use of advanced designer patterns and their manipulation for a custom look and fit. Handling of specialty fabrics such as lace, wool, silks, and napped fabrics as well as sophisticated couture designer finishes and embellishments. NR

FASH 212  
**CONSTRUCTION LAB**  
1 Unit; 3 hours lab  
Includes demonstration and practice of basic and intermediate sewing skills necessary for the student at the fundamental level. Course includes exposure and use of industrial sewing machines, industrial dress forms and industrial irons in a professional studio. Offered as open-entry/open-exit as pass/no pass. NR

FASH 213  
**DESIGNER’S LAB**  
1 Unit; 3 hours lab  
- Recommended Preparation: FASH 100  
  Includes demonstration and practice of advanced sewing skills necessary for the established student and designer. Course includes exposure and use of industrial sewing machines, industrial dress forms, tailoring equipment, pattern making equipment and industrial irons in a professional studio. Offered as open-entry/open-exit as pass/no pass. NR

FASH 214  
**COUTURE LAB**  
1 Unit; 3 hours lab  
- Recommended Preparation: FASH 100  
  Includes demonstration and practice of couture and specialty sewing skills necessary for the accomplished student and designer. Course includes exposure and use of industrial sewing machines, industrial dress forms, tailoring equipment, pattern making equipment specialty equipment and industrial irons in a professional studio. Offered as open-entry/open-exit as credit/no-credit. NR
FASH 216  
COSTUMER’S LAB  
1 Unit; 3 hours lab  
Includes demonstration and practice of specialty sewing skills necessary for the costuming student and designer. Course includes exposure and use of industrial sewing machines, industrial dress forms, tailoring equipment, pattern making equipment, specialty equipment, and industrial irons in a professional studio. Offered as open-entry/open-out as credit/no-credit. NR

FASH 217  
FOOTWEAR DESIGN AND CONSTRUCTION  
2 Units; 1.5 hours lecture; 2 hours lab  
Design and construct footwear/shoes for an accessory line or that complete your clothing line, compliment ensembles, theatrical costumes or stand alone as wearable art. Explores historical and ethnic inspirations as well as current market interests and trends. Covers design methods, construction techniques and sources for materials. Suggested for students interested in Fashion Design and Costuming. NR

FASH 218  
NEW YORK STUDY TOUR  
2 Units; 1.5 hours lecture; 1.5 hours lab  
Travel to New York, the fashion capital of the United States. Students will connect with industry, observe the workplace in action, explore employment, and internship opportunities within New York City. May include field trips to apparel and textile manufacturers, showrooms, CAD companies, trend forecasters, visual display showrooms, publications, retail stores, buying offices, and museum collections. Learn about New York’s role as one of the four major fashion capitals of the world. NR

FASH 219  
DRESSMAKING LAB  
1 Unit; 3 hours lab  
Corequisite: FASH 100 or 111  
Includes demonstration and practice of intermediate sewing skills necessary for fashion students. Course includes exposure and use of industrial sewing machines, sergers, industrial dress forms and industrial irons in a professional studio. Offered as open-entry/open-out as pass/no-pass. NR

FASH 220  
TAILOR’S LAB  
1 Unit; 3 hours lab  
Recommended Preparation: FASH 111  
Includes demonstration and practice of Tailoring sewing skills necessary for the accomplished student and designer. Course includes exposure and use of industrial sewing machines, industrial dress forms, tailoring equipment, pattern making equipment specialty equipment and industrial irons in a professional studio. Recommended for advanced fashion students. Offered as open-entry/open-out and pass/no-pass. NR

FASH 221  
CONTEMPORARY TAILORING  
2 Units; 1 hour lecture; 3 hours lab  
Recommended Preparation: FASH 100 or basic sewing skills  
Study tailoring methods using soft, unstructured techniques. It includes elimination of bulk, knowledge of current development in shaping fabrics, new methods of finishing the inside of garments, use of commercial sewing machines, and selection of design and fabrics for contemporary tailoring. Emphasis will be on the professional application of new tailoring techniques and how these are used by the practicing dressmaker and tailor. NR

FASH 222  
MILLINERY DESIGN  
3 Units; 2.5 hours lecture; 1.5 hours lab  
Learn the historical art of millinery. Design and construct hats as an accessory line, complete your clothing line, for theatrical costumes, or as wearable art. Covers historical and ethnic inspirations as well as current market interests and trends. Includes design methods, construction techniques and sources for materials. Ideal for students interested in Fashion Design and Costume Design. NR

FASH 223  
ACCESSORY DESIGN  
3 Units; 2.5 hours lecture; 1.5 hours lab  
Design and develop a line of accessories. Course covers process of accessory design from inspiration to sourcing and manufacturing of handbags, small leather goods, footwear, millinery, gloves, belts, and neckwear. Overview of accessory history as well as current market trends and designers. Construction methods and manufacturing processes for accessories will be covered. NR

FASH 225  
APPAREL CART: FASHION RETAILING ONLINE WITH EASY CART SHOP  
1 Unit; 1 hour lecture; 1 hour lab  
Create an online store for your fashion business using Apparel Easy Shop and other retail software. Course covers building your online store with full web administration, credit card processing, secure customer shopping, and many other features specific to apparel. Includes social media integration and online marketing. NR

FASH 230  
ALTERATIONS AND FITTING  
3 Units; 2.5 hours lecture; 1.5 hours lab  
Recommended Preparation: FASH 100 or basic sewing skills  
Included are basic procedures involved in altering a ready-made garment, industrial sewing-machine operation, identification of specific fitting problems, causes, and remedies. NR

FASH 234  
ADVANCED PATTERN AND DESIGN TECHNIQUES  
2 Units; 1 hour lecture; 3 hours lab  
Prerequisite: FASH 130  
Translate complex original designs into garments. Includes instruction in industrial pattern and apparel construction. Students will develop style designs and patterns. NR
FASH 235
DESIGNING FOR THE FASHION INDUSTRY
2 Units; 1 hour lecture; 3 hours lab
Recommended Preparation: FASH 130
A professional course simulating the procedures used in the design department of a garment manufacturer. The student will design misses and junior dresses, lingerie, sportswear, active sportswear, after-five, and children’s wear. Students will deal with the problems of working ahead of fashion seasons, production costs, saleability, and manufacturability of garments. Emphasis also will be placed on improving design techniques. NR

FASH 238
ADVANCED DRAPING AND FASHION DESIGN
2 Units; 1 hour lecture; 3 hours lab
Recommended Preparation: FASH 132
Explores design principles through draping techniques. Student will create half and full scale garments for presentation, professional portfolio, and department fashion show. NR

FASH 240
DYE PROCESSES ON FABRICS
3 Units; 2.5 hours lecture; 1.5 hours lab
Explores a variety of methods used to dye and/or print fabrics suitable for use in clothing and interiors. Covers the traditional procedures used, terminology, equipment, and the various new dyes and techniques on the market. Various topics will be covered including block printing, stenciling, batik, fabric painting, tie-dyeing, and direct printing. Methods will be explored to enable professionals and students to design fabrics to suit their garment designs and costume projects. Excellent for fashion, theater costuming, art and interior design students. NR

FASH 247
SPECIAL EVENTS PARTICIPATION
1 Unit; 1 hour lecture; 0.5 hours lab
Includes planning and participating in a student produced fashion event. Students will showcase garments of their own design or will apply staging principles learned in merchandising courses. NR

FASH 250
FASHION TREND FORECASTING
1.5 Units; 1 hour lecture; 1.5 hours lab
Research and identify key trends in the apparel industry. Fashion forecasting research will include looking at fashion silhouette, textiles and colors, then projecting what future fashion trends will be. Covers analysis of trend forecasting companies, street fashion and couture. NR

FASH 251
DESIGNING FOR A CAUSE AND SUSTAINABLE FASHION
3 Units; 2 hours lecture; 3 hours lab
Recommended Preparation: FASH 100, 130 and 154
Designed to teach the basic skills of garment design while promoting a particular cause. Learn how to develop a line, sources of eco-inspiration, trend reports and the elements of a successful apparel line. Explore relationships between philanthropic companies in the textiles, apparel, and retailing and other “green” companies. Drapery and patternmaking using the basic block, fitting techniques, and manipulating pattern or drape to create apparel with design details. NR

FASH 254
FASHION IN SOUTHERN CALIFORNIA
1 Unit; 0.5 hours lecture; 1.5 hours lab
Introduction to the fashion industry in Southern California. Students will visit California Mart and a selection of industry professionals and environments such as designers, buyers, manufacturers, and production facilities. NR

FASH 260
THE DIGITAL FASHION IMAGE
2 Units; 1.5 hours lecture; 1.5 hours lab
Recommended Preparation: FASH 154
Create digital fashion images using Adobe Photoshop and Illustrator. Technical instruction on sketching and image production from pencil to pen tool. Students will create and merchandise a clothing line and be introduced to the computer generated portfolio. NR

Fine Arts

FA 27
INTRODUCTION TO FINE ARTS
3 Units; 3 hours lecture
Transfers: CSU, UC
An introductory course to the discipline of fine arts, including art, theatre, and music. Explores various topics that unite all fine arts, including terminology, aesthetics, themes, objective and subjective analysis, and techniques of the critique. NR

Food and Nutrition

FN 50
FUNDAMENTALS OF NUTRITION
3 Units; 3 hours lecture
Transfers: CSU, UC
A comprehensive analysis of the principles of nutrition and their relationship to health throughout the life cycle. Scientific concepts of nutrition related to the function of nutrients in basic life processes and current health issues with emphasis on the needs of the individual. NR

FN 64
NUTRITION ISSUES AND CONTROVERSIES
3 Units; 3 hours lecture
Transfers: CSU, UC
Stresses a topical approach to nutrition and related health conditions with emphasis on evaluation of controversial views and findings. Investigates problems related to food choices, energy balance, over-consumption of foods, food and diet fads and fallacies, nutrient needs, nutrient supplements, food safety, nutrition legislation and current dietary trends. NR
FN 120
CONTEMPORARY MEALS
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Prerequisite: FN 171 or FN 210 or current ServSafe Certification
Topics emphasized include the close links among growing vegetables and herbs, preparing healthy and nutritious meals, sustainability in the food service industry, and understanding the environmental ethics, based upon the “Farm-to-Table” model. Growing, planning, organizing, experimenting, preparing and serving sustainable cuisine will be discussed and taught. Laboratory experiences include “hands on” growing and maintaining an organic garden and preparing sustainable foods. NR

FN 140
CULTURAL CUISINE
2 Units; 1 hour lecture; 3 hours lab
Transfers: CSU
Prerequisite: FN 171 or FN 210 or current ServSafe Certification
Emphasizes regional, ethnic, cultural, religious, historical, and social influences on food patterns and cuisines. Laboratory experience with foods from many cultures will be stressed as well as professional and commercial applications. NR

FN 142
CLASSICAL FRENCH CUISINE
2 Units; 1 hour lecture; 3 hours lab
Transfers: CSU
Prerequisite: FN 171 or FN 210 or current ServSafe Certification
Mastery of techniques in menu planning, preparation, presentation, and service of French cuisine. Professional and commercial applications as well as culinary careers will be explored. NR

FN 150
INTRODUCTION TO HOSPITALITY INDUSTRY/ MGMT AND SUPERVISION
3 Units; 3 hours lecture
Transfers: CSU
Focuses on the qualities and skills needed to manage and train employees in the Hospitality field. An emphasis will be placed on leadership, training, and supervision. Covers topics such as supervisors as leaders; goal setting; supervisory communication; suggestions for improvement; and social media communications; drivers of diversity; multiculturalism; social media recruiting; hiring suggestions; evaluating on-the-job performance and performance improvement; behaviors of leaders; team building, and teaching methods for training. NR

FN 154
HOSPITALITY – PRODUCTION AND COST CONTROL
3 Units; 3 hours lecture
Transfers: CSU
Food, beverage, and labor cost controls for careers in food and beverage operations. Specific areas covered include purchasing, receiving, storage, issuing, production, and sales. Introduces the basics of cost-volume-profit analysis. NR

FN 157
HOSPITALITY LAW
3 Units; 3 hours lecture
Transfers: CSU
Shows students and practicing hospitality managers how to effectively manage their legal environment. By learning to think proactively, students consider how their actions will be viewed in a legal context, thereby precluding many legal difficulties. Familiarizes readers with hospitality legalities, provides relevant exercises, and applies lessons learned to real-world hospitality management situations. NR

FN 160
NUTRITION, WEIGHT MANAGEMENT, AND EATING DISORDERS
3 Units; 3 hours lecture
Transfers: CSU
Sound principles of weight management and nutritional concerns of eating disorders. Investigates and evaluates weight-control methods, food fads, fallacies, basic nutritional needs, and recommended lifestyle changes. Current approaches to nutritional care and treatment of eating disorders will be covered. Emphasizes application of nutrition principles for eating disorder counselors and nutrition professionals in the counseling setting. NR

FN 161
NUTRITION FOR HEALTH OCCUPATIONS
2 Units; 2 hours lecture
Transfers: CSU
Examines the essential nutrients and the basic dietary guides. Includes the application of nutrition to the stages of the life cycle, nutrition-related health conditions, basic principles of therapeutic nutrition, ethnic influences on diet, and guidelines for evaluating nutrition information as to its validity and application. NR

FN 164
SPORTS NUTRITION
2 Units; 2 hours lecture
Transfers: CSU
Overview of basic nutrition concepts for individuals interested in sports, fitness, and health. Emphasis on current nutrition practices related to athletic performance. Covers energy nutrient intakes, hydration, specific activity recommendations, and applications. NR

FN 171
SANITATION AND SAFETY
2 Units; 2 hours lecture
Transfers: CSU
Environmental control and its application to food preparation, personal cleanliness, sanitation in the commercial kitchen and dining room, and the use and care of equipment within food service operations. Emphasis on safety and accident prevention on the job and optimum equipment selection, use, and maintenance. NR
FN 173  
CATERING AND BANQUETS  
3 Units; 2 hours lecture; 3 hours lab  
Transfer: CSU  
Prerequisite: FN 171 or FN 210 or current ServSafe Certification  
Recommended Preparation: FN 240 and 244  
Catering skills, personal chef business management and service, menu planning, equipment selection, logistics, and advanced presentation techniques of catering and banquet production will be included. On-site, off-premise, and special event planning from the perspective of hospitality, profitability, and customer service are emphasized. This course requires students to make themselves available for two catered events within the current semester that may not be scheduled during regular class hours. NR

FN 205  
NUTRITION FOR CULINARY PROFESSIONALS  
3 Units; 3 hours lecture  
Overview of nutrition including major nutrients, life cycle needs, energy balance, role of food and nutrition in culinary arts, and consumer expectations and industry response. NR

FN 210  
SERVSAFE IN FOOD PRODUCTION  
1 Unit; 1 hour lecture  
Introduction to basic information on food safety risks, standards and practices in restaurant operations. Students may take the federal exam, ServSafe, upon the completion of this course. NR

FN 220  
FRENCH BISTRO CUISINE  
2 Units; 1 hour lecture; 3 hours lab  
Prerequisite: FN 171 or FN 210 or current ServSafe Certification  
Exploration and preparation of the foods of provincial France. Students will gain practical experience in the planning and preparation of representative Provençal French bistro specialties and menus. Attention will be given to techniques, methods, and presentation for the catering and restaurant industry. NR

FN 222  
CHINESE CUISINE  
2 Units; 1 hour lecture; 3 hours lab  
Prerequisite: FN 171 or FN 210 or current ServSafe Certification  
Investigate the many regional cuisines of China, including Szechwan/Hunan, Peking/Mandarin, Cantonese, and Shanghai/Fukien. Practical experience in preparing authentic Chinese dishes is an integral part of the course. Emphasis is on developing professional skills and techniques applicable to the commercial food industry. NR

FN 223  
ASIAN CUISINE  
2 Units; 1 hour lecture; 3 hours lab  
Prerequisite: FN 171 or FN 210 or current ServSafe Certification  
Cuisines of the Philippines, Japan, China, Thailand, India, Vietnam, and Indonesia. Regional, ethnic, religious, and geographic influences on food patterns and customs will be examined. Professional catering and restaurant applications are included. NR

FN 226  
MEXICAN CUISINE  
2 Units; 1 hour lecture; 3 hours lab  
Prerequisite: FN 171 or FN 210 or current ServSafe Certification  
Focus on the art of preparing and presenting authentic Mexican dishes is an integral part of the course. Emphasis is on developing professional skills and techniques applicable to the commercial food industry. NR

FN 228  
ITALIAN CUISINE  
2 Units; 1 hour lecture; 3 hours lab  
Prerequisite: FN 171 or FN 210 or current ServSafe Certification  
The development of professional skills for catering and the restaurant industry will be emphasized. NR

FN 230  
VEGETARIAN CUISINE  
2 Units; 1 hour lecture; 3 hours lab  
Prerequisite: FN 171 or FN 210 or current ServSafe Certification  
Focus on the art of preparing and presenting vegetarian foods. Practical experience in preparing vegetarian dishes, variety of cultural and ethnic dishes included. Also includes an exploration of nutrition information including health benefits and recommendations for healthy food planning, and use of specialized ingredients. Emphasis is on developing professional skills and techniques applicable to the commercial food industry. NR

FN 232  
TECHNIQUES OF HEALTHY COOKING  
2 Units; 1 hour lecture; 3 hours lab  
Prerequisite: FN 171 or FN 210 or current ServSafe Certification  
Focus on the art of preparing and presenting healthy cuisine to support life-long eating patterns that promote good health. Practical experience in planning and preparing healthy dishes using innovative methods—a variety of cultural and ethnic dishes included. Emphasizes exploration of nutrition information, modification of less healthy recipes, substituting ingredients to include more healthful item—including health benefits and recommendations for healthy food choices, planning, and use of specialized ingredients. NR

FN 227  
MEDITERRANEAN CUISINE  
2 Units; 1 hour lecture; 3 hours lab  
Prerequisite: FN 171 or FN 210 or current ServSafe Certification  
The cuisines and cultures of the following Mediterranean countries are included in course study: Spain, France, Italy, Morocco, Egypt, Greece, and Turkey. Laboratory experiences with food from the Mediterranean will be stressed as well as commercial applications. Included will be appetizers, soups, salads, main dishes, meat, game preparation, sauces, dressings, and desserts appropriate to the region. NR
FN 236  
**AMERICAN REGIONAL CUISINE**  
2 Units; 1 hour lecture; 3 hours lab  
Prerequisite: FN 171 or FN 210 or current ServSafe Certification  
Culinary history and survey of major influences and origins of American foods. Regions covered include the Northeast, Southern, Middle America, Pacific Northwest, Southwest and California. A unique cuisine has been created from the contributions of Native Americans and many immigrant groups. This diverse culinary heritage will be investigated through hands-on preparation of traditional regional foods. NR

FN 240  
**CULINARY PRINCIPLES I**  
3 Units; 2 hours lecture; 3 hours lab  
Prerequisite: FN 171 or FN 210 or current ServSafe Certification  
Recommended Preparation: FN 246  
Introduction to the professional field of Culinary Arts. Beginning students will gain a general understanding of cooking theory while developing professional culinary arts skills. Basic cooking principles of stocks, sauces, soups, poultry, vegetable and starches will be included. Development of culinary skills through lab applications. NR

FN 241  
**CULINARY PRINCIPLES II**  
3 Units; 2 hours lecture; 3 hours lab  
Prerequisite: FN 171 or FN 210 or current ServSafe Certification  
Recommended Preparation: FN 240  
Advanced principles and techniques of culinary arts will be covered. Practical experience in techniques, preparation, presentation and service of poultry, meats, fish and shellfish, charcuterie will be explored. Purchasing, storage and quality control of products will be taught. NR

FN 244  
**BAKING FUNDAMENTALS I**  
3 Units; 2 hours lecture; 3 hours lab  
Prerequisite: FN 171 or FN 210 or current ServSafe Certification  
Fundamental principles of baking, including weights and measurement techniques, ingredients and their uses. Includes cookies, pies and pie fillings, quick breads, yeast doughs and custards. NR

FN 245  
**BAKING FUNDAMENTALS II**  
2 Units; 1 hour lecture; 3 hours lab  
Prerequisite: FN 171 or FN 210 or current ServSafe Certification  
Recommended Preparation: FN 244  
Emphasis on specialty and advanced baking skills, techniques, methods and presentation. Hands-on production of pastries, cakes and fillings, puff dough, mousses and bavarians integrated with accompaniments from international cuisines. NR

FN 246  
**PANTRY**  
3 Units; 2 hours lecture; 3 hours lab  
Prerequisite: FN 171 or FN 210 or current ServSafe Certification  
Fundamental principles of pantry preparation will be covered. Practical experience in techniques, preparation, presentation and service of cold sauces, salads, sandwiches and breakfast items and cheese selection will be explored. Purchasing, storage and quality control of pantry products are included. NR

FN 261  
**INTERNSHIP**  
1 Unit; 1 hour lecture  
Students will be taught the skill set necessary to secure an internship/job placement, learn desirable professional skills, resume writing, interview techniques and time management skills. NR

FN 275  
**FOOD AND BEVERAGE OPERATIONS**  
3 Units; 3 hours lecture  
Food, beverage, and labor cost controls for careers in food and beverage operations. Specific areas covered include purchasing, receiving, storage, issuing, production, and sales. Introduces the basics of cost-volume-profit analysis. Also covers management theory, marketing plan development, food and beverage service, facility design and equipment. NR

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**French**

FR 1  
**ELEMENTARY FRENCH**  
5 Units; 5 hours lecture  
Transfers: CSU, UC  
Prerequisite: FR 2 or three years of high school French  
Corequisite: FR 901  
Recommended Preparation: College level reading ability  
Designed to develop the fundamentals of communicative competence in colloquial French. The emphasis is on listening, comprehension, and conversational skills. Early reading and writing skills are introduced, as well as fundamental aspects of culture. Equivalent to two years high school French. NR

FR 2  
**ELEMENTARY FRENCH**  
5 Units; 5 hours lecture  
Transfers: CSU, UC  
Prerequisite: FR 1 or two years of high school French  
Corequisite: FR 902  
Designed to further the fundamentals of communicative competence in daily spoken French. Although the focus remains on listening comprehension and speaking, reading and writing skills will be expanded. This course continues the familiarization with customs and cultural achievements begun in the previous semester. NR

FR 3  
**INTERMEDIATE FRENCH**  
5 Units; 5 hours lecture  
Transfers: CSU, UC  
Prerequisite: FR 2 or three years of high school French  
Corequisite: FR 903  
Reviews the fundamentals with further study of the French language and culture. NR

FR 4  
**INTERMEDIATE FRENCH**  
5 Units; 5 hours lecture  
Transfers: CSU, UC  
Prerequisite: FR 3 or four years of high school French  
Corequisite: FR 904  
Concentrates on the development of fluency in the skills needed to communicate in French. Further study of cultural topics. NR
FR 10
INTERMEDIATE
CONVERSATIONAL FRENCH
3 Units; 3 hours lecture
Transfers: CSU, UC
Prerequisite: FR 2 or three years of high school French
Designed to develop fluency in French. The emphasis is on both formal and informal expression and conversation in the language. NR

FR 21
INTRODUCTION TO FRENCH LANGUAGE AND CULTURE
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: College-level reading ability
Traces the development of French culture from Roman period to modern times. Conducted in English. No prior study of French language or culture required. NR

FR 901
FRENCH LANGUAGE LAB
0.25 Unit; 1 hour learning center
Corequisite: FR 1
Requires concurrent enrollment in French 1. Enhances and provides practice in skills learned in French 1 Language course. NR

FR 902
FRENCH LANGUAGE LAB
0.25 Unit; 1 hour learning center
Corequisite: FR 2
Requires concurrent enrollment in French 2. Enhances and provides practice in skills learned in French 2 Language course. NR

FR 903
FRENCH LANGUAGE LAB
0.25 Unit; 1 hour learning center
Corequisite: FR 3
Requires concurrent enrollment in French 3. Enhances and provides practice in skills learned in the French 3 course. NR

FR 904
FRENCH LANGUAGE LAB
0.25 Unit; 1 hour learning center
Corequisite: FR 4
Requires concurrent enrollment in French 4. Enhances and provides practice in skills learned in the French 4 course. NR

GEOG 1
PHYSICAL GEOGRAPHY
3 Units; 3 hours lecture
Transfers: CSU, UC
Focuses on the basic physical elements of geography. Earth-sun relationships, weather, climate, landforms, soils, water and natural vegetation, and their integrated patterns of world distribution. C-ID: GEOG 110 NR

GEOG 1L
PHYSICAL GEOGRAPHY LABORATORY
1 Unit; 3 hours lab
Transfers: CSU, UC
Prerequisite: Taken concurrently with GEOG 1 or after completing GEOG 1
An earth environment laboratory that explains in greater depth the ideas and relationships of physical geography. Stresses the scientific method in interpreting Earth-sun relations; time; earth representation through globes and maps; weather (temperature, moisture, pressure and winds); climate; natural vegetation; soils and landform evolution by tectonic forces, erosion and deposition. C-ID: GEOG 111 NR

GEOG 2
CULTURAL GEOGRAPHY
3 Units; 3 hours lecture
Transfers: CSU, UC
Introduction to social and political elements of geography and a survey of major cultural patterns. NR

GEOG 3
WORLD REGIONAL GEOGRAPHY
3 Units; 3 hours lecture
Transfers: CSU
Introduction to the world’s geographical regions and major countries with an emphasis on human cultural patterns and their evolution in diverse physical environments. NR

GEOG 38
CALIFORNIA GEOGRAPHY
3 Units; 3 hours lecture
Transfers: CSU
The natural and cultural environment of California with special emphasis on the effects of the climate, topography, resources and location upon the social, political and economic development of the state. NR

GEOG 102
GEOGRAPHY FIELD STUDIES
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU
A lecture and laboratory field course to study the physical and cultural geography of Western North America. Thematic emphasis and course content will vary depending on location. NR
GEOG 106
FIELD STUDIES OF DESERT REGIONS
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU
Studies the physical and cultural geography of California deserts. Thematic emphasis and course content will vary depending on location. NR

GEOG 107
FIELD STUDIES OF MOUNTAIN AREAS
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU
Studies the physical and cultural geography of mountain areas of California. Thematic emphasis and course content will vary depending on location. NR

GEOG 108
FIELD STUDIES OF WESTERN NORTH AMERICA
2 Units; 1 hour lecture; 3 hours lab
Transfers: CSU
Studies the physical and cultural geography of Western North America. Thematic emphasis and course content will vary depending on location. NR

GEOG 109
FIELD STUDIES OF COASTAL REGIONS
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU
Studies the physical and cultural geography of coastal areas. Thematic emphasis and course content will vary depending on location. NR

GEOG 110
INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (GIS)
2 Units; 1 hour lecture; 3 hours lab
Transfers: CSU
Study of Geographic Information Systems (GIS) science and its applications to spatial data management. Identification and acquisition of GIS data. Assessment of vector and raster systems, scale, resolution, map projection, coordinate systems, georeferencing and Global Positioning Systems (GPS). Spatial analysis and modeling with GIS. Also listed as GIS 110. Credit given in either area, not both. C-ID: GEOG 155 NR

GEOG 211
INTERMEDIATE GEOGRAPHIC INFORMATION SYSTEMS (GIS)
2 Units; 1 hour lecture; 3 hours lab
Prerequisite: GEOG/GIS 110
Intermediate GIS course prepares students for advanced geographic analysis. Students will integrate geographic and spatial concepts into acquisition and creation of Geographic Information Systems (GIS), Global Positioning System (GPS) and varied data types, cartography, programming, and raster data. Laboratory exercises will allow students of various disciplines to explore the use of GIS in their fields. Also applicable to those already in the GIS field seeking additional skills. Also listed as GIS 211. Credit given in either area, not both. NR

Geology

Geol 1
INTRODUCTION TO PHYSICAL GEOLOGY
4 Units; 3 hours lecture; 3 hours lab
Transfers: CSU, UC
Integrated study of the principles of geology and the use of geologic clues to determine earth history. Emphasis will be placed on the composition of earth’s crust and interior, plate tectonics, volcanism, earthquakes, mountain building, surface processes and natural resources such as minerals, fossil fuels, and water. Includes laboratory exercises in identifying common minerals and rocks, reading and interpreting aerial photos, topographic, and geologic maps. Field trips will supplement laboratory work. NR

Geol 2
HISTORICAL GEOLOGY
4 Units 3 hours lecture 3 hours lab
Transfers: CSU, UC
Recommended Preparation: GEOL 1 or 20
A study of the geological and biological evolution of the Earth. Includes an introduction to geologic time; relative and absolute dating methods; stratigraphic principles; the origin of the universe, solar system, atmosphere, oceans and life; plate tectonics; and the evolution of Earth’s surface and development of organisms through geologic time. Required lab allows application of lecture content. Field trips may be required to fulfill the objectives of this course. NR

Geol 3
GEOLOGY OF CALIFORNIA
3 Units; 3 hours lecture
Transfers: CSU, UC
A study of California’s geologic provinces and their direct affect on the human history of the state. How the San Andreas Fault system, other earthquake faults, volcanoes, mountain ranges, glacial valleys, and other geological features relate to and influence our life in this state. How our energy resources and recreation are directly related to the geology of the state. Field trips may be required to fulfill the objectives of this course. NR

Geol 4
NATURAL DISASTERS
3 Units; 3 hours lecture
Transfers: CSU, UC
Examines how human evolution, society, culture, and even where we choose to work and live, are dictated by natural hazards. The entire time scale from formation of the universe to the present earth system will be considered. The physical processes causing earthquakes, volcanic eruptions, tsunamis, floods, windstorms, and asteroid impacts will be described, along with the role played by these random, rapid processes in the geological and biological evolution of the planet. NR

Geol 7
WEATHER AND CLIMATE
3 Units; 3 hours lecture
Transfers: CSU, UC
A survey course in meteorology, emphasizing atmospheric composition and variability as well as interactions between atmosphere, oceans and continents to produce our weather. Includes the terminology and tools that meteorologists employ to observe, study, and predict storm systems, storm fronts, thunderstorms, tornadoes, and wind-driven ocean waves. Current topics such as air pollution and climate change will also be addressed. NR
GEOL 20
INTRODUCTION TO EARTH SCIENCE
4 Units; 3 hours lecture; 3 hours lab
Transfers: CSU, UC
Introduces and brings together geology, oceanography, meteorology, and astronomy. Study of the universe, solar system, solid earth (rocks, minerals, plate tectonics, mountain-building, and earthquakes), oceans, shorelines, the atmosphere, and life, past and present. Field trips may be required to fulfill the objectives of this course. NR

GEOL 21
THE SOLAR SYSTEM
3 Units; 3 hours lecture
Transfers: CSU, UC
A study of the origin and evolution of our solar system, from the beginning to the present, as deduced from sampling, remote sensing, exploration, imagery, and theory. We will discuss and compare composition; tectonics; volcanism; surface processes; and atmospheric and thermal evolution of earth, the moon, terrestrial, and Jovian planets and their satellites. Additional topics will include meteorite and comet impacts and the possible existence of life elsewhere in the solar system. Field trips may be required to fulfill the objectives of this course. Also listed as ASTR 21. Credit given in either area, not both. NR

GEOL 23
ENVIRONMENTAL GEOLOGY
4 Units; 3 hours lecture; 3 hours lab
Transfers: CSU, UC
How the earth affects man and man affects the earth. Includes environmental studies into the problems related to earthquakes, volcanism, floods, landslides, the shoreline, energy resources and pollution. Principles of sound planning for human use of the planet earth. Field trips may be required to fulfill the objectives of this course. Also listed as ENV 23. Credit given in either area, not both. NR

GEOL 170
GFS: NATIONAL PARKS & MONUMENTS (WESTERN UNITED STATES)
2 Units; 1 hour lecture; 3 hours lab
Transfers: CSU
Studies the origin, evolution, and geology of national parks and monuments of the Western United States. Thematic emphasis, course content, and national parks to be visited will vary. Students in geology and earth sciences are encouraged to enroll. NR

GEOL 172
GEOLGY FIELD STUDIES: MOJAVE DESERT
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU
Studies the origin, evolution, and geology of the Mojave Desert and adjacent areas. Students in geology and earth sciences are encouraged to enroll. NR

GEOL 173
GEOLGY FIELD STUDIES: DEATH VALLEY
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU
Studies the origin, evolution, and geology of Death Valley National Park and adjacent areas. Thematic emphasis and course content will vary. NR

GEOL 174
GEOLGY FIELD STUDIES: EASTERN SIERRA REGION
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU
Studies the origin, evolution, and geology of Eastern Sierra region and adjacent areas. Thematic emphasis and course content will vary. NR

GEOL 182
GEOLGY FIELD STUDIES: COAST RANGE-MORRO BAY
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU
Studies the origin, evolution, and geology of the Coast Range, Morro Bay, and adjacent areas. Thematic emphasis and content will vary. NR

GEOL 183
GEOLOGY FIELD STUDIES: ANZA-BORREGO DESERT
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU
Studies the origin, evolution, and geology of Anza-Borrego Desert Park and adjacent areas. Thematic emphasis and course content will vary. Students in geology and earth sciences are encouraged to enroll. NR

GEOL 185
GEOLOGY FIELD STUDIES: YOSEMITE
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU
Studies the origin, evolution, and geology of Yosemite National Park and surrounding areas. Thematic emphasis and course focus varies seasonally. NR

German

GER 1
ELEMENTARY GERMAN
5 Units; 5 hours lecture
Transfers: CSU, UC
Corequisite: GER 901
Recommended Preparation: College-level reading ability
Designed to develop the fundamentals of communicative competence in colloquial German. The emphasis is on listening, comprehension, and conversational skills. Early reading and writing skills are introduced as well as fundamental aspects of culture. Equivalent to two years high school German. NR

GER 2
ELEMENTARY GERMAN
5 Units; 5 hours lecture
Transfers: CSU, UC
Prerequisite: GER 1 or two years of high school German
Corequisite: GER 902
Designed to further the fundamentals of communicative competence in daily spoken German. Although the focus remains on listening comprehension and speaking, reading and writing skills will be expanded. This course continues the familiarization with customs and cultural achievements begun in the previous semester. NR
GER 3
INTERMEDIATE GERMAN
5 Units; 5 hours lecture
Transfers: CSU, UC
Prerequisite: GER 2 or three years of high school German
Corequisite: GER 903
Requires concurrent enrollment in course.
Practice in skills learned in German 2.
Enhances and provides practice in skills learned in German 1.
Course.

GER 4
INTERMEDIATE GERMAN
5 Units; 5 hours lecture
Transfers: CSU, UC
Prerequisite: GER 3 or four years of high school German
Corequisite: GER 904
Concentrates on the development of fluency in the skills needed to communicate in German. Further study of cultural topics.

GER 200
BEGINNING PRACTICAL
GERMAN
1 Unit; 1 hour lecture
Introduces basic vocabulary including phonetics of German alphabet, pronunciation, simple sentence structure, spelling rules, common nouns, adjectives, and verbs. Includes simple tenses, subject-verb order, conjugation of verbs and declarative, imperative and interrogative sentence structure. Cultural aspects of Germany, Austria, and Switzerland are included. Develops grammar skills and pronunciation in preparation for Elementary German.

GER 901
GERMAN LANGUAGE LAB
0.25 Unit; 1 hour learning center
Corequisite: GER 1
Requires concurrent enrollment in German 1. Enhances and provides practice in skills learned in German 1 course.

GER 902
GERMAN LANGUAGE LAB
0.25 Unit; 1 hour learning center
Corequisite: GER 2
Requires concurrent enrollment in German 2. Enhances and provides practice in skills learned in German 2 course.

GER 903
GERMAN LANGUAGE LAB
0.25 Unit; 1 hour learning center
Corequisite: GER 3
Requires concurrent enrollment in German 3. Enhances and provides practice in skills learned in German 3 course.

GER 904
GERMAN LANGUAGE LAB
0.25 Unit; 1 hour learning center
Corequisite: GER 4
Requires concurrent enrollment in German 4. Enhances and provides practice in skills learned in German 4 language course.

GC 63
INTRODUCTION TO SCREEN PRINTING
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU, UC
Principles, basic methods and techniques of preparing handcut and photographic stencils, printing techniques, simple color separation, and equipment and material handling. Care, use, and safety precautions in operating and cleaning the silkscreen unit. Also listed as ART 63. Credit given in either area, not both.

GC 101
INTRODUCTION TO GRAPHIC COMMUNICATION
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Designed to introduce the graphics major as well as the non-major to the broad field of graphic communications. Includes experience in design, press operations, and bindery, as well as hands-on-experience in each of the major printing processes, including offset lithography, letterpress, and screen printing.

GC 106
ADVANCED SCREEN PRINTING
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Prerequisite: GC 63
Recommended Preparation: GC/ART 63 and GC 101
Advanced theory, methods and techniques of the screen printing process including both spot and process color separations, multiple color registration, screen construction and prepress, alternative media and specialized ink systems. Emphasis placed on improving a student's basic printing technique to an advanced skill level.

GC 195
GRAPHICS STUDIO
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Recommended Preparation: GC/ART 63 and GC 101
For the advanced graphics student who requires actual production experience or additional training in a specific area. Skills will be enhanced by hands-on experience in the production of graphics in computer graphics, graphic communications, design or illustration. Animation.

GC 210
LETTERPRESS
3 Units; 2 hours lecture; 3 hours lab
The traditional art of letterpress printing. Today many designers are returning to the craft of letterpress—printing from metal and wooden type and photopolymer plates—as a unique option to digital printing. Letterpress offers a tactile quality and nostalgic look that can't be achieved with any other printing technique.

GD 1
HISTORY OF ANIMATION
3 Units; 3 hours lecture
Transfers: CSU
A critical and historical survey of animation as a form of communication and cultural expression, from prehistoric origins to present digital formats. Animated works will be studied in relation to the culture and society in which they were created. Students will analyze and evaluate a large cross-section of animated works (formerly GD 155).

GD 140
BEGINNING GRAPHIC DESIGN
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Introduction to fundamentals of design concepts that explore organization of visual elements for graphic communication. Studio work will include traditional and computer-generated assignments in layout and typography. Designed to convey current concepts in the graphic design field. Also listed as ART 140. Credit given in either area, not both.
GD 141
GRAPHIC RENDERING TECHNIQUES
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Introduction to traditional computer-generated design and construction of three-dimensional packaging, including labels, overwraps, printed cartons, and point-of-purchase displays. Also listed as ART 142. Credit given in either area, not both.

GD 142
PACKAGE DESIGN
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Exploration of two-dimensional media for producing graphics and illustrations. Projects encourage development of illustration skills for a variety of design applications. Recognition and choice of techniques for translating concepts into accurate and compelling renderings. Also listed as ART 141. Credit given in either area, not both.

GD 144
TYPOGRAPHY
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Basic principles of typography explored. Course is intended to provide the students with practical, formal, and communicative typographic skills. Instruction focuses on understanding the practical and analytical application of typography in graphic design and its critical evaluation. Emphasis is on developing strong typographic skills in students. Instruction focuses on problem solving and technical training while at the same time nurturing intuition and creativity.

GD 147
INTRODUCTION TO COMPUTER GRAPHICS
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Introductory computer graphics course which covers many aspects of computer-generated art and graphics. The student will use Macintosh computers and Adobe Creative Suite to assist in creating art and graphics using many different software programs applicable today for use in graphics.

GD 148
DIGITAL GRAPHIC DESIGN
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Recommended Preparation: GD/ART 140 or GD 147
Introduction to traditional and computer-generated design and the use of software for layout and design. The course uses a range of software for layout and design.

GD 149
DIGITAL ILLUSTRATION
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Recommended Preparation: GD/ART 140 or GD 147
Exploration of vector illustration software on the Macintosh computer. Work in black and white as well as color. Intended for those with experience in art and design.

GD 150
DIGITAL ANIMATION
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Recommended Preparation: GD/ART 141, GD 147, 149
Introduction to Macintosh computer-based presentations of animation development as it relates specifically to graphic design. Students are familiarized with the basic principles of the Macintosh computer as it relates to the Macintosh computer and its output devices. Scanning images for correct output DPI is covered.

GD 151
DIGITAL LAYOUT AND DESIGN
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
An introduction to layout design for print and web publishing that covers typography, layout theory, pre-press production methods and project management. Emphasizes practical development techniques to produce digital visual images efficiently. Software instruction uses industry standard design software.

GD 154
DIGITAL PRE-PRESS
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Recommended Preparation: GD 147 and 151
Introductory course for students interested in the Macintosh computer’s capability, along with digital printers, to input pre-press information including color separation. Study production techniques as they relate to the computer and its output devices.

GD 160
PROFESSIONAL PRACTICES FOR GRAPHIC DESIGNERS
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Recommended Preparation: GD 140
Learn the pragmatic essentials of working as a freelance graphic designer. Course topics address professional requirements and procedures to launch and maintain successful graphic design practice, including portfolio development, presentation techniques, client relationships, marketing, implementing an accounting system, and establishing a legal entity.
GD 180
GRAPHIC DESIGN CONCEPTS FOR MOBILE DEVICES
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Recommended Preparation: GD 140
Introducory course for graphic designers interested in designing effective graphical interfaces for applications (apps) for smart phones and tablets. Emphasis will be placed on graphic design principles as they apply to designing user interfaces for mobile device apps. Industry standard software will be employed to develop basic applications that run on a variety of operating systems. NR

GD 199
DIGITAL ILLUSTRATION II
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Prerequisite: GD 149
Recommended Preparation: GD 200
Students will explore more advanced illustration techniques with a greater emphasis on multiple design components and more sophisticated visual concepts. Techniques and processes include digital drawing and painting projects that incorporate the use of vector and raster software programs. Professional applications of digital-based illustration will also be investigated. NR

GD 200
PHOTOSHOP SKILLS FOR GRAPHIC DESIGNERS
3 Units; 2 hours lecture; 3 hours lab
Designed to help graphic designers master professional studio techniques including custom typographic treatments and special photographic effects in Adobe Photoshop. Emphasizes technical proficiency and aesthetic judgment. Students will develop creative projects using a broad range of skills. NR

GD 210
MOTION GRAPHICS
3 Units; 2 hours lecture; 3 hours lab
Introduction to the tools and basic principles of creating motion graphics, the future of graphic design in the digital age. Today’s graphic design is increasingly viewed on cell phones, computer monitors, and other digital video systems. Motion graphics is the new language of graphic design combining moving images and typography, special effects, and sound. In this introductory course the student will develop a command of Adobe After Effects software to produce impressive and effective motion graphics for advertising and informational uses. Planning, production, and the aesthetic issues of 2-D animation are covered. NR

GD 240
INTERMEDIATE GRAPHIC DESIGN
3 Units; 2 hours lecture; 3 hours lab
Recommended Preparation: GD 140
Study of design concepts to explore organization of visual elements to graphics. Studio work will include layout and production of designed formats (magazine ads, logos, TV storyboard, newspapers and ads) and conceptualization techniques in the graphic design field, as well as portfolio preparation. Also listed as ART 240. Credit given in either area, not both. NR

GD 249
BIOMEDICAL ILLUSTRATION
3 Units; 2 hours lecture; 3 hours lab
Recommended Preparation: GD 149 and 200
Explore and create conceptualized illustrations and diagrammatic illustrations created to foster communication between scientist and author, teacher and student, or physician and patient. Create work that transforms complex information and data into images that explain, inform, and record scientific research and discoveries. Emphasizes the use of vector and raster illustration tools in the creation of instructive biomedical media. NR

Health

HLTH 1
CONTEMPORARY HEALTH ISSUES
3 Units; 3 hours lecture
Transfers: CSU, UC
An exploration into traditional and holistic health topics as they affect the individual, family, community and society. General topics include mental health and stress reduction techniques, emotional wellness, and communication skills. Specific topics include; sexuality and intimate relationships, nutrition, weight management, fitness, aging, dying, narcotics, alcohol, tobacco, reproductive choices, infectious diseases, cardiovascular health, cancer, sleep, and alternative medicine. NR

HLTH 2
FIRST AID, CPR, AND AUTOMATED EXTERNAL DEFIBRILLATOR
1.5 Units; 1.5 hours lecture
Transfers: CSU, UC
Accident and injury prevention, CPR, AED and first aid for common injuries/illness. Successful completion qualifies a student for American Heart Association – Heartsaver – CPR, AED and First Aid certificate. NR

HLTH 3
WOMEN’S HEALTH ISSUES
3 Units; 3 hours lecture
Transfers: CSU, UC
An exploration of all health issues that affect the quality of women’s daily lives. A special emphasis on women’s issues, including sexuality, and intimate relationships, reproductive issues and PMS, communication skills, fitness concepts, nutrition, and food awareness, belief systems and emotional management, relaxation, visualization and stress reduction, and aging and dying. Also includes setting and attaining goals. NR
Health Information Technology

HIT 200
HEALTH INFORMATION SCIENCE
3 Units; 3 hours lecture
Introduction to the health information management profession, including health services organization and delivery methods; collection, maintenance, and analysis of health data; requirements and standards for health information; information systems; regulatory, licensure, and accreditation standards. Letter grade only. NR

HIT 202
REIMBURSEMENT METHODOLOGIES
2 Units; 2 hours lecture; 1 hour lab
Explores health insurance billing and current payment methodologies in the various healthcare settings. Focuses on compliance with regulatory requirements and common reimbursement practices. Includes specific payment systems and how the information provided by health information management departments impacts the financial viability of health care organizations. Students will also learn how other payers and quality review organizations utilize data. NR

HIT 203
ALTERNATIVE HEALTHCARE DELIVERY SYSTEMS
2 Units; 2 hours lecture
Examines the management of health information in the various delivery systems, other than the acute care hospital setting, including home health, hospice, behavioral health, ambulatory settings, long-term care, rehabilitation facilities, managed care, and correctional facilities. Focuses on the structure and content of the records, flow of information, regulations, accreditation requirements and reimbursement. NR

HIT 204
PERFORMANCE IMPROVEMENT IN HEALTHCARE
3 Units; 3 hours lecture
An introduction to the quality management and performance improvement process in health care settings, and focuses on collecting, analyzing, and presenting data. The course covers introduction to quality management techniques and tools, patient safety, accreditation, utilization and risk management. Letter grade only. NR

HIT 207
INFORMATION TECHNOLOGY/EHR IN HEALTHCARE
3 Units; 3 hours lecture
Prerequisite: HIT 200
Information management technologies used in the management of health information; software applications; data and information file structures; querying databases; presentation and manipulation of data; data security and protection of health information; and information systems planning life-cycle. Letter grade only. NR

HIT 209
MANAGEMENT OF RESOURCES IN HEALTHCARE
3 Units; 3 hours lecture
Recommended Preparation: CIM 112
Management of human, financial, and physical resources in a Health Information Management (HIM) department including: leadership, training, teamwork, motivation, staffing and productivity, communication, performance review, process improvement, budgets, development of policies and procedures, goal setting, and cultural diversity. Letter grade only. NR

HIT 212
REPORTING HEALTHCARE DATA
2 Units; 2 hours lecture
Recommended Preparation: MATH 253
An introduction to statistics in healthcare, reporting of various types of healthcare data, and principles of medical research and planning. This course covers math review and the presentation of data. NR

HIT 215
CPT/AMBULATORY CARE CODING
3 Units; 3 hours lecture
Prerequisite: BIO 113
Addresses the utilization of CPT-4 and HCPCS codes for hospital outpatient, physician, and other ambulatory services. Analysis of medical documentation and application of guidelines for coders and health information professionals. Letter grade only. NR

HIT 219
DIRECTED PRACTICE
4 Units; 3 hours lecture; 3 hours lab
Prerequisite: HIT 215
Limitation: (1) Physical examination and health clearance required (2) Background clearance required (3) Professional liability insurance required
Examines the structure, content, and utilization of Health Records, with emphasis on Health Information Management as it relates to the Health Information Department of an affiliated health care organization. The focus is on the organization, flow of information, functions of the health information department, and other associated departments. Letter grade only. NR

HIT 220
ICD/PROCEDURE CODING
2 Units; 2 hours lecture
Prerequisite: BIO 113
Designed to provide training in the process of building ICD procedure codes. Discusses the Index and Tables of the ICD procedure manual for assigning procedure codes. Prepares students to review the documentation in health records, support and identifies the procedure, determine the objective of the procedure, review the definition of the root operations that match the objective of the procedure, and select the appropriate value for body part, approach, devise, and qualifier from the procedural code table. Students will use encoders and groupers to assign ICD procedure codes. Letter grade only. NR
HIT 221
ICD/DIAGNOSTIC CODING
3 Units; 3 hours lecture
Prerequisite: BIO 113
Provides an overview of the organization and format of the International Classification of Diseases, Clinical Modification (ICD), and the role of diagnostic coding in the Prospective Payment System. Provides instruction in diagnostic coding of health records by applying ICD guidelines. Students will use specialized software for the completion of the Health Information Management (HIM) processes with emphasis on encoders and groupers for diagnostic coding. Letter grade only. NR

HSC 201
MEDICAL TERMINOLOGY
3 Units; 3 hours lecture
Application and orientation to medical terminology, basic structure of medical terms and their components—roots, prefixes, suffixes and combining forms. Emphasizes analysis, meaning, spelling and pronunciation to building a medical vocabulary applicable to the specialties of medicine, major diseases and terms used on physical examination, diagnosis and treatment. Letter grade only. NR

HSC 217
CARDIAC DYSRHYTHMIAS
2 Units; 2 hours lecture
Recommended Preparation: N 172 or EMT 207 and 207C
Emphasizes cardiac function, normal and abnormal heart rhythms, causes of dysrhythmias, and interpretation of monitoring equipment printouts. NR

HSC 222
BASIC LIFE SUPPORT/CPR FOR HEALTHCARE PROVIDERS
0.75 Unit; 0.75 hours lecture
Provides instruction, practice, and return demonstration of CPR and obstructed airway management techniques. This includes one- and two-rescuer resuscitation techniques for adults, children, and infants. Includes a brief review of basic anatomy and physiology of the circulatory and respiratory systems as they relate to high quality CPR and management of airway obstruction. Recognition and treatment of cardiopulmonary arrest and airway obstruction will be emphasized. Satisfactory completion of the course will provide an American Heart Association Healthcare Provider Basic Life Support course completion card. NR

HSC 223
BASIC LIFE SUPPORT/CPR FOR HEALTHCARE PROVIDERS RENEWAL
0.25 Unit; 0.25 hours lecture
Limitation: Current American Heart Association Healthcare Provider course completion card
Review and update of cardiopulmonary resuscitation principles and procedures for health care providers previously educated in one- and two-rescuer adult, child and infant resuscitation and foreign body airway obstruction management. Satisfactory completion of course provides American Heart Association Healthcare Provider course completion card. NR

HSC 226
ADVANCED CARDIAC LIFE SUPPORT
2 Units; 2 hours lecture
Limitation: HSC 217
Recommended Preparation: Current BLS Healthcare Provider
Provides healthcare students with critical assessment and management skills to treat adults with pre-arrest, cardiac arrest, and stroke. Provides information on team dynamics and communication, systems of care and immediate post-cardiac-arrest care. Also covers airway management and related pharmacology. Skills are taught in large and small group sessions and testing stations where case-based scenarios are presented. NR

HSC 227
PEDIATRIC ADVANCED LIFE SUPPORT
2 Units; 2 hours lecture
Limitation: Current AHA BLS Healthcare Provider course completion card
American Heart Association/American Academy of Pediatrics Pediatric Advanced Life Support (PALS) course for healthcare providers to develop proficiency in the knowledge and skill of advanced pediatric resuscitation and emergency care. Satisfactory completion of the course will provide an American Heart Association Pediatric Advanced Life Support Provider course completion card. NR

HSC 228
CALCULATIONS FOR MEDICATION ADMINISTRATION
1 Unit; 1 hour lecture
Basic concepts for problem-solving in administering drugs and solutions. Stresses equivalency and unit conversions. Uses dimensional analysis system for problem solving. NR

HSC 233
LEGAL AND ETHICAL ASPECTS OF HEALTH INFORMATION
3 Units; 3 hours lecture
Covers the legal and ethical issues pertaining to health care, health information, and the health record. Topics include: privacy, confidentiality, patient rights, security, release of information, informed consents, advance directives, compliance, fraud and abuse, tort law, medical malpractice, labor laws, HIPAA, ARRA, HITECH, and E-health. Letter grade only (formerly MA 222). NR
HSC 244
DISEASE PROCESSES FOR THE HEALTH SCIENCES
3 Units; 3 hours lecture
Prerequisite: HSC 201
A conceptual approach to the study of disease processes including common assessment strategies and treatments with an emphasis on the body’s response to the disease process. Letter grade only. NR

HSC 291
MANAGEMENT OF AGGRESSIVE BEHAVIOR IN HEALTHCARE SETTINGS
0.5 Unit; 0.5 hours lecture
Created for individuals who work in healthcare settings and may be in close contact with verbally and physically aggressive individuals. The theory of recognition and prevention of the assaulted crisis will be discussed. Students will participate in exercises to learn how to diffuse aggressive client behaviors. Students will also participate in kinetic learning exercises used with physically aggressive clients in healthcare settings. NR

Hebrew

HEBR 1
ELEMENTARY HEBREW
5 Units; 5 hours lecture
Transfers: CSU, UC
Corequisite: HEBR 901
Recommended Preparation: College level reading ability
Designed to develop the fundamentals of communicative competence in colloquial Hebrew. The emphasis is on listening, comprehension, and conversational skills. Early reading and writing skills are introduced, as well as fundamental aspects of culture. Equivalent to two years high school Hebrew. NR

HEBR 2
ELEMENTARY HEBREW
5 Units; 5 hours lecture
Transfers: CSU, UC
Prerequisite: HEBR 1 or two years of high school Hebrew
Corequisite: HEBR 902
Designed to further the fundamentals of communicative competence in daily spoken Hebrew. Although the focus remains on listening, comprehension and speaking, reading and writing skills will be expanded. This course continues the familiarization with customs and cultural achievements begun in the previous semester. NR

HEBR 3
INTERMEDIATE HEBREW
5 Units; 5 hours lecture
Transfers: CSU, UC
Prerequisite: HEBR 2 or three years of high school Hebrew
Corequisite: HEBR 903
Intermediate level course focuses on fluency on reading, writing, speaking, and listening. Continues the study of Hebrew culture. NR

HEBR 901
HEBREW LANGUAGE LAB
0.25 Unit; 1 hour learning center
Corequisite: HEBR 1
Requires concurrent enrollment in Hebrew 1. Enhances and provides practice in skills learned in Hebrew 1 course. NR

HEBR 902
HEBREW LANGUAGE LAB
0.25 Unit; 1 hour learning center
Corequisite: HEBR 2
Requires concurrent enrollment in Hebrew 2. Enhances and provides practice in skills learned in Hebrew 2 course. NR

HEBR 903
HEBREW LANGUAGE LAB
0.25 Unit; 1 hour learning center
Corequisite: HEBR 3
Requires concurrent enrollment in Hebrew 3. Enhances and provides practice in skills learned in Hebrew 3 course. NR

History

HIST 4
WORLD HISTORY TO 1750
3 Units; 3 hours lecture
Transfers: CSU, UC
A survey of major themes and events in world history from the earliest civilizations to 1750. Emphasis will be placed on the rise of ancient Egypt, Greece, and Rome; the early Indian, Chinese, Latin American, and African empires; and European expansionism and global encounters. NR

HIST 5
WORLD HISTORY FROM 1750
3 Units; 3 hours lecture
Transfers: CSU, UC
A survey of major themes and events in world history from 1750 to the present. Emphasis will be placed on the Atlantic slave trade and slavery in the Americas, late 18th and early 19th century political revolutions, the Industrial Revolution, imperialism and colonialism, and 20th Century nationalist movements and revolutions. NR

HIST 7
SOCIAL AND ECONOMIC HISTORY OF THE U.S. TO 1876
3 Units; 3 hours lecture
Transfers: CSU, UC
Surveys the American social and economic experience from the colonial period through Reconstruction. Featured topics include colonization; westward expansion of Europeans; the interaction of Native American and European cultures; merchant and early industrial capitalism; motives for and consequences of independence from Great Britain; development and economic implications of federal government; slavery, indenture and free labor; immigration; conflict between the agrarian/republican and urban-industrial/federalist visions of America; military involvements, and conditions of private and family life. NR

HIST 8
SOCIAL AND ECONOMIC HISTORY OF THE U.S., 1877 TO THE PRESENT
3 Units; 3 hours lecture
Transfers: CSU, UC
Surveys the American social and economic experience from Reconstruction to the present. Featured topics include the emergence of big business; labor and unionization; focus shifts from agriculture to manufacturing to services; government’s role in regulating industry and taming business cycles; immigration and internal migrations; urbanization; gender roles and family structure; technological change; living conditions; the distribution of wealth; African American legal rights and economic realities; effects on Native Americans of U.S. expansion and federal oversight; economic globalization; overseas military actions, and new challenges to security and liberty. NR

HIST 11
PERSPECTIVES OF PEACE STUDIES
3 Units; 3 hours lecture
Transfers: CSU, UC
A comprehensive study of nonviolent philosophies and movements from the ancient world to the present, with particular emphasis on Mohandas Gandhi, Martin Luther King, Jr., and the movements they led. NR
HIST 12
REVOLUTIONS AND REVOLTS
3 Units; 3 hours lecture
Transfers: CSU, UC
Examine from a comparative perspective the origins, phases and results of selected revolutions throughout modern world history. Analyze how issues of gender, race, and class shaped these revolutions. NR

HIST 15
THE VIETNAM WAR
3 Units; 3 hours lecture
Transfers: CSU, UC
A study of the Vietnam War, including an examination of how the United States became involved, how this war was waged, and reactions to the policy in the United States and within the international community. An analysis of the legacies of the Vietnam conflict will be covered as America confronts world problems today. NR

HIST 16
HISTORY OF THE UNITED STATES TO 1876
3 Units; 3 hours lecture
Transfers: CSU, UC
History of the United States from its colonial origins through the period of the Reconstruction, in terms of cultural, economic, political, and social developments as influenced by geographical and cultural expansions and sectional conflicts. NR

HIST 17
HISTORY OF THE UNITED STATES SINCE 1876
3 Units; 3 hours lecture
Transfers: CSU, UC
Focuses on U.S. history from the Reconstruction period to the present, relating to such areas as Industrial Revolution, reform movements from the Progressives to the New Deal, overseas expansion, collective security in foreign affairs, and other foreign and domestic issues since World War II. NR

HIST 19
UNITED STATES SINCE 1945
3 Units; 3 hours lecture
Transfers: CSU, UC
Survey of the United States and its world relationships following the close of World War II. Special emphasis will be given to the Cold War, American social ferment, the development of the Civil Rights Movement, and American foreign policy through the Persian Gulf War. NR

HIST 20
ETHNIC CULTURES OF THE UNITED STATES
3 Units; 3 hours lecture
Transfers: CSU, UC
A general overview of the sociological, psychological, and historical background of selected ethnic groups in the United States. Topics include social, political, and economic factors, as well as intergroup relationships, prejudice, discrimination, affirmative action, immigration, assimilation, and social change. Also listed as SOC 20. Credit given in either area, not both. NR

HIST 21
WOMEN IN UNITED STATES HISTORY: A MULTICULTURAL PERSPECTIVE
3 Units; 3 hours lecture
Transfers: CSU, UC
A survey of U.S. women’s history from the 18th century to the present. Focus will be placed on uncovering the similarities and differences in the historical experiences of women based on their class, racial, and ethnic identity. Concentration is on the changing roles of women in the family, community, labor force, and political system, and exploration of the evolution of gender roles and identities. NR

HIST 22
SURVEY OF UNITED STATES HISTORY
3 Units; 3 hours lecture
Transfers: CSU, UC
Survey of cultural, economic, political, and social aspects of the history of the United States from the colonial period to the present. NR

HIST 27
LATIN AMERICA: PRE-EUROPEAN TO INDEPENDENT NATIONHOOD
3 Units; 3 hours lecture
Transfers: CSU, UC
A survey of the heritage of Latin America from a cradle of civilization in the pre-European era to the beginning of nationhood. The emphasis will be on the political, economic, cultural, and social history of this period. The student will be introduced to pre-European America, the Iberian background, European conquest and dominance, the movements to end European dominance, and the creation of Latin America. NR

HIST 28
LATIN AMERICA: 1800 TO THE PRESENT
3 Units; 3 hours lecture
Transfers: CSU, UC
A survey of the political, economic, cultural, and social history of Latin America. Review the development of Latin American nations since independence from European conquest and occupation. Examines the relationship of Latin American nations with the rest of the world, with special emphasis on relations with nations of the Western Hemisphere. NR

HIST 29
FILM AND HISTORY IN LATIN AMERICA
3 Units; 3 hours lecture
Transfers: CSU, UC
Students evaluate films on Latin America in the context of historical research on similar episodes or issues. Films will focus on the social and psychological consequences of colonialism, forced labor systems, religious beliefs, and "Modernization". NR

HIST 30
HISTORY OF MEXICO
3 Units; 3 hours lecture
Transfers: CSU, UC
An exploration of the major historical processes and events in Mexican history from the pre-colonial era to the present. Emphasis will be placed on the economic, political, social, and cultural currents that have shaped the lives of the people of Mexico. NR

HIST 32
CALIFORNIA HISTORY
3 Units; 3 hours lecture
Transfers: CSU, UC
Survey of California history from the Pre-European era to the present, focusing on the economic, political and social factors that influenced the historical development of the state. Topics include early indigenous societies, the founding of the missions, the Mexican-American war, the Gold Rush, the Great Depression and World War II, and the Chicano Rights Movement. NR
HIST 33
HISTORY OF THE CHICANAS/OS
3 Units; 3 hours lecture
Transfers: CSU, UC
A survey of Chinese history from the 16th century to the present. Focus is on the manner in which Chinese cultural patterns have been retained or redefined by life in the United States, the impact of the Texas Revolution and the U.S.- Mexican War, the role of urbanization and immigration, regional variation within the Chicana/o community, and Chicana/o contributions to the development of American society. NR

HIST 40
HISTORY OF ENGLAND TO 1688
3 Units; 3 hours lecture
Transfers: CSU, UC
Survey of English history from the Roman conquest to the Glorious Revolution of 1688. Emphasis is placed on the Tudor and Stuart monarchies, especially the reigns of Henry VIII and Elizabeth I. NR

HIST 41
HISTORY OF ENGLAND SINCE 1688
3 Units; 3 hours lecture
Transfers: CSU, UC
Survey of English history from the Glorious Revolution to the present. Includes an overview of economic, political, social, cultural, and scientific developments from 1688 to the present. NR

HIST 61
HISTORY AND POLITICS OF RUSSIA: SOVIET PERIOD TO THE PRESENT
3 Units; 3 hours lecture
Transfers: CSU, UC
A survey and evaluation of the Russian Revolution followed by an analysis of the major forces which shaped the Soviet Union’s political, economic, and social systems. Course also includes the collapse of the Soviet Union and post-Soviet Russia. NR

HIST 62
EUROPEAN HISTORY TO 1650
3 Units; 3 hours lecture
Transfers: CSU, UC
Survey of the historical developments of Europe from the Ancient Mediterranean to 1650. Includes an overview of the economic, political, social, cultural, and scientific developments from the emergence of the Greek Empire to the Thirty Years War. NR

HIST 63
EUROPEAN HISTORY SINCE 1650
3 Units; 3 hours lecture
Transfers: CSU, UC
Survey of the historical developments of Europe from the Age of Absolutism to the present. Includes an overview of political, social, cultural, and scientific developments from the era of 17th Century nation building to the present. NR

HIST 64
HISTORY OF THE MODERN MIDDLE EAST TO 1800
3 Units; 3 hours lecture
Transfers: CSU, UC
A survey of the history of the Middle East from 1688 to the present, with emphasis on the problems of developing Middle Eastern nations, the Arab-Israeli conflicts, and the political and economic implications of Middle Eastern oil. Includes a brief introduction to Islamic religious institutions, focusing on the importance of these institutions to contemporary global politics. NR

HIST 70
HISTORY OF ASIA TO 1800
3 Units; 3 hours lecture
Transfers: CSU, UC
Survey of major social, religious, political, economic, and cultural traditions of Asia to 1800. Emphasis is placed upon the historical development of India, China, Japan, and Southeast Asia. NR

HIST 71
HISTORY OF ASIA SINCE 1800
3 Units; 3 hours lecture
Transfers: CSU, UC
A continuation of History of Asia to 1800, with an emphasis on issues of modernization, adaptation, and cultural change since 1800. NR

HIST 72
HISTORY OF CHINA
3 Units; 3 hours lecture
Transfers: CSU, UC
Survey of Chinese history from the foundations of Chinese culture to the present, focusing on the rise of rice-based agriculture, religion, philosophy, the dynastic system, contact with the West, industrialization, the establishment of the Communist state, and the transition to a capitalist economy. NR

HIST 74
HISTORY OF THE MIDDLE EAST TO 1800
3 Units; 3 hours lecture
Transfers: CSU, UC
A survey of the cultural, economic, and political history of the Middle East from Ancient Era to 1800 C.E. with an emphasis on the rise, spread, and development of Islam. Explores how Islam developed out of earlier Middle Eastern societies and built upon those continuities, and examines the expansion and development of Islam and its interaction with pre-Islamic Middle Eastern societies and the West until 1800 C.E. NR

HIST 75
HISTORY OF THE MODERN MIDDLE EAST
3 Units; 3 hours lecture
Transfers: CSU, UC
A survey of the history of the Middle East from 1800 to the present, with emphasis on the problems of developing Middle Eastern nations, the Arab-Israeli conflicts, and the political and economic implications of Middle Eastern oil. Includes a brief introduction to Islamic religious institutions, focusing on the importance of these institutions to contemporary global politics. NR

HIST 80
INTRODUCTION TO CONTEMPORARY AFRICA
3 Units; 3 hours lecture
Transfers: CSU, UC
A survey of African history from ancient Egypt to the present. Focus will be on the nature of early African empires and societies, the impact of the slave trade, responses to imperial conquest and colonial rule, the rise of nationalist movements and the regaining of political independence, and the contemporary challenges facing postcolonial African states and peoples. Also listed as PS 80. Credit given in either area, not both. NR

HIST 81
AFRICAN AMERICAN HISTORY
3 Units; 3 hours lecture
Transfers: CSU, UC
A survey of the history of peoples of African descent in the United States from colonial times to the present. Emphasis will be placed on struggles over the construction of race and identity, slavery and emancipation, the meanings of freedom and democracy, the Civil Rights and Black Power movements’ philosophies and strategies for achieving full citizenship, and the persistence of inequality in the contemporary period. NR
Horticulture

HORT 7
INTRODUCTION TO LANDSCAPE DESIGN
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU, UC
Fundamentals of landscape design as applied to residential landscape projects, study of materials used in landscape development, site analysis, problems of design, fundamentals of plant selection, and introduction to graphic presentations. Field trips may be required to fulfill the objectives of this course. NR

HORT 10
PLANT MATERIALS – HERBACEOUS PLANTS
3 Units; 3 hours lecture
Transfers: CSU, UC
An introductory course in landscape plants and identification. Includes plants used as ground covers, bedding plants, vines and small shrubs. Growth habits and cultural requirements will be studied. Field trips may be required to fulfill the objectives of this course. NR

HORT 11
PLANT MATERIALS – TREES AND SHRUBS
3 Units; 3 hours lecture
Transfers: CSU, UC
An introductory course in landscape trees and shrubs identification. Growth characteristics and cultural requirements will be studied. Field trips may be required to fulfill the objectives of this course. NR

HORT 20
INTRODUCTION TO HORTICULTURAL SCIENCE
4 Units; 3 hours lecture; 3 hours lab
Transfers: CSU, UC
An introductory course in ornamental horticulture, with scientific emphasis and assessment through lab tasks, including plant structure, growth and development, pest management, soils, fertilization, propagation, pruning, diseases, planting methods, greenhouse management, and landscape design principles will be studied. Includes extensive hands-on lab tasks. Field trips/observations may be required to fulfill the objectives of this course. NR

HORT 106
LANDSCAPE CAD: AUTOCAD FUNDAMENTALS
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Introduction to the use of computer-aided drawing and drafting (CADD) applications in landscape design; covers applications in computer mapping and graphics, planting design, and landscape development according to industry standards. NR

HORT 109
INTRODUCTION TO PLANTING DESIGN
3 Units; 3 hours lecture
Transfers: CSU
Introduction to the elements and principles of planting design. Emphasis is given to organizing and applying plant material to design problems using accepted ecological, functional, and aesthetic standards. Field trips may be required to fulfill the objectives of this course. NR

HORT 112
PLANT PROPAGATION
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Theory and practices of plant propagation, including seeds, cuttings, division, tissue culture, layering, budding, and grafting. Study will include propagation structures, plant growth regulators and environmental factors regulating plant growth and development. Field trips may be required to fulfill the objectives of this course. NR

HORT 113
SOILS AND FERTILIZERS
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Soil development, texture, aeration, structure, cation exchange and other physical and chemical properties will be studied. Characteristics, uses, and methods of application of fertilizers and soil amendments in practical applications are presented. NR

HORT 115
HISTORY OF LANDSCAPE DESIGN: ANCIENT THROUGH 19TH CENTURY
3 Units; 3 hours lecture
Transfers: CSU
A study of landscape design from its beginnings to the 19th Century, emphasizing Italian, French Renaissance, English, Islamic, and American gardens. Field trips may be required to fulfill the objectives of this course. NR

HORT 116
IRRIGATION DESIGN FUNDAMENTALS
3 Units; 3 hours lecture
Transfers: CSU
An introductory irrigation-systems course covering landscape, system design, installation, maintenance and repair. Emphasizes water conservation principles and practices. NR

HORT 120
INTEGRATED PEST MANAGEMENT
4 Units; 3.5 hours lecture; 1.5 hours lab
Transfers: CSU
Pest recognition and the methods of environmentally acceptable control in the landscape, nursery, and home will be studied. Insects, spider mites, weeds, fungi, bacteria, viruses, nematodes, and vertebrates are included. NR

HORT 130
HARDSCAPE AND CONSTRUCTION MATERIALS FUNDAMENTALS
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU
Introduces students to the materials used in the development of ornamental hardscapes in the field of landscape design. These materials include soils, stone, wood, brick, paving materials, fencing, plastics and drainage materials. Design considerations in the use of these materials and the laws and regulations that apply are also covered. NR
HORT 138
THE SUSTAINABLE LANDSCAPE
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Introduces fundamentals of sustainable landscape design, including water conservation, such as Rain Water Recovery System, and chemical use reduction. Teaches basic sustainable landscape design concepts and application techniques with hands-on exercises. Enhances understanding of sustainable landscape maintenance with proper plant care, propagation, pest control, fertilization and pruning. NR

HORT 139
CONTEMPORARY LANDSCAPE DESIGN TRENDS
3 Units; 3 hours lecture
Transfers: CSU
Students explore current design trends with ever-changing technologies and globalization. Learn how current landscape design is performed by case-studying successful landscape design projects in 21st century. NR

HORT 140
LANDSCAPE MANAGEMENT AND CONSTRUCTION
3 Units; 3 hours lecture
Transfers: CSU
Introduces concepts critical to landscape construction. Includes how to build a landscape design with practical implementation. Supervision of construction crews so the design is implemented correctly. NR

HORT 141
HARDSCAPES AND CONSTRUCTION DETAILS WITH CAD
2 Units; 1 hour lecture; 3 hours lab
Transfers: CSU
Recommended Preparation: HORT 130
Introduces students to CAD applications for landscape construction details relative to hardscapes. NR

HORT 142
INTRODUCTION TO DESIGN TECHNOLOGY
1 Unit; 1 hour lecture
Transfers: CSU
Provides an overview of multiple computer applications for landscape design. Projects are explored for the most efficient design workflow. Integrates multiple computer applications for landscape design tasks. NR

HORT 143
LANDSCAPE CAD MANAGEMENT WITH DESIGN PROJECTS
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Prerequisite: HORT 106
The complexity of CAD drawing management with multiple drawing files in the same design project is explored. Manage a group of CAD drawings by working and creating multiple CAD files for the class projects. NR

HORT 144
LICENSURE FOR THE LANDSCAPE CONTRACTOR
1.5 Units; 1.5 hours lecture
Transfers: CSU
Prepares student for the California Landscape Contractor’s License Exam. NR

HORT 145
PLANTING DESIGN WITH NATIVE PLANTS
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Addresses the importance of sustainable planting design, especially for water conservation. Create landscape designs with aesthetics, function, and minimal impact on the surrounding ecosystem. NR

HORT 146
LANDSCAPE DESIGN PORTFOLIO DEVELOPMENT
0.5 Unit; 1.5 hours lab
Transfers: CSU
Identifies the different styles of portfolios and develop the most suitable format for your own work examples. Culminates with the creation of a well-designed portfolio for a competitive advantage. NR

HORT 147
ORNAMENTAL NATIVE PLANTS IDENTIFICATION
3 Units; 3 hours lecture
Transfers: CSU
Studies California native plants suitable for landscape use. Emphasizes the identification of plants, cultural requirements for their use in the landscape, and the ecology of the plants in nature. Special attention will be placed on solving landscape problems using native and other drought-tolerant plants. Field trips may be required. NR

HORT 201
PROFESSIONAL PRACTICES IN DESIGN PROFESSIONS
3 Units; 3 hours lecture
Recommended Preparation: HORT 7, 109
Exploration of all non-design aspects in practicing design professions, such as marketing, contracts, budgeting and financing, legal issues and project management. Examines what professionals should know in a business. Provides in-person exposure to law and finance by hosting guest lecture series with industry experts. NR

HORT 216
IRRIGATION PLANS AND DETAILS WITH CAD
3 Units; 2 hours lecture; 3 hours lab
Prerequisite: HORT 116
Includes design and management of irrigation systems on a larger and more complex level than a simple residential setting. Large estate sized properties, athletic fields, golf courses, parks and other such commercial or public settings will be covered. Emphasis on the principles and practices of hydrostatic problems and methods of large scale irrigation design will be applied to the complex systems, as well as drip irrigation and other methods of irrigation. NR

Human Services
HS 37
INTRODUCTION TO CRIMINOLOGY
3 Units; 3 hours lecture
Transfers: CSU, UC
Theories of historical, social, cultural, genetic, psychological, economic, and political causative factors related to crime are covered. Emphasizes the origin of law, it’s relationship to society, the organization and functions of law, and the role of law to prevent future criminal behaviors. Focus is placed on the most relevant crimes within our society. NR
HS 100 INTRODUCTION TO HUMAN SERVICES
3 Units; 3 hours lecture
Connections: CSU
Recommended Preparation: ENG 300
An introduction to the Human Services profession. Explores historical and contemporary perspectives of problems in living and the Human Services field. Examines models of helping and related values, skills, and roles of the Human Services professional. Studies the broad definition of the profession of Human Services. NR

HS 110 FIELD INSTRUCTION AND SEMINAR I
3.5 Units; 1.5 hours lecture; 6 hours lab
Connections: CSU
Prerequisite: HS 100 and 120 and 140 and 170 and 285, with a "C" or better.
Provides supervised field-instruction experience in approved community agencies that serve clients in the field of Human Services. Focus is on beginning development and use of helping skills, client record documentation and service coordination. Self-awareness and beginning professional growth are also emphasized. NR

HS 112 CONFLICT RESOLUTION/MEDIATION
3 Units; 3 hours lecture
Connections: CSU
Recommended Preparation: ENG 300
Examines and introduces principles of non-violent, non-litigious conflict management skills with an emphasis on theory and the practice of conflict resolution and mediation. Designed to train individuals to be effective in resolving conflicts and engage in mediation techniques in a broad context, from interpersonal relationships to working with individuals, groups, and staff in the workplace to dealing with interpersonal conflicts in alcohol and drug treatment settings, mental health settings, community-based correctional settings, educational and workplace settings and other human services milieus. Skills applicable for interpersonal development. NR

HS 119 INTRODUCTION TO CRIMINAL JUSTICE SYSTEM
3 Units; 3 hours lecture
Connections: CSU
Prerequisite: HS 110
Provides supervised field-instruction experience in approved community agencies that serve clients in the field of Human Services. Focus is on non-violent, non-litigious conflict resolution and mediation. Designed to train individuals to be effective in resolving conflicts and engage in mediation techniques in a broad context, from interpersonal relationships to working with individuals, groups, and staff in the workplace to dealing with interpersonal conflicts in alcohol and drug treatment settings, mental health settings, community-based correctional settings, educational and workplace settings and other human services milieus. Skills applicable for interpersonal development. NR

HS 120 HUMAN DEVELOPMENT IN THE SOCIAL ENVIRONMENT
3 Units; 3 hours lecture
Connections: CSU
Examines the forces and experiences that shape human development throughout the life course. Explores the role of human services in optimizing human development within the context of the social environment. NR

HS 128 COMMUNITY-BASED CORRECTIONS
3 Units; 3 hours lecture
Connections: CSU
A highly interactive exploration of the front-line work in community-based corrections, halfway houses, parole and probation supervision, diversion, youth advocacy, and community programs. Includes both a state and local perspective on functions, successes and limitations in community-based corrections. NR

HS 131 MULTICULTURAL AND DIVERSE POPULATIONS IN THE UNITED STATES
3 Units; 3 hours lecture
Connections: CSU
Focuses on the major cultural, historical, and societal themes in the US and highlights the competencies needed to address and work effectively with people from various ethnic, racial, and religious groups. Examines the knowledge, skills, and attitudes needed for the treatment provider to understand the full context of a client's sociocultural environment and examines those that have been disadvantaged or excluded from mainstream US society. Includes those with co-occurring disorders. Students actively seek understanding across differences, and focus on psychoeducation in subject areas that serve the goals of treatment and rehabilitation. NR

HS 140 GROUP LEADERSHIP AND GROUP PROCESS
3 Units; 3 hours lecture
Connections: CSU
An introduction to group dynamics and group leadership within the context of the helping professions. Focuses on group development, interpersonal processes, and group facilitation skills. Concepts related to professional and ethical standards of group leadership are integrated. Application of course concepts occurs through experiential learning opportunities. Letter grade only. NR

HS 150 FIELD INSTRUCTION AND SEMINAR II
3.5 Units; 1.5 hours lecture; 6 hours lab
Connections: CSU
Prerequisite: HS 110
Provides continued supervised field-instruction experience in approved human services community agencies. Students increase development of helping skills, client record documentation and service coordination. Emphasizes increased integration of concepts from human services theory courses. NR
HS 170
ALCOHOL AND OTHER DRUGS IN OUR SOCIETY
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: PSYC 37
An historical and sociological perspective on the use, abuse and social control of psychoactive drugs. Includes overviews of the biopsychosocial nature of addiction; the impact of addiction on families and society; contemporary treatment and prevention approaches; and the addiction counseling profession. NR

HS 171
SUBSTANCE ABUSE: INTERVENTION, TREATMENT AND RECOVERY
3 Units; 3 hours lecture
Transfers: CSU
The assessment, intervention and treatment of substance-related disorders are explored from an interdisciplinary perspective. Students learn to tailor helping strategies and treatment modalities to the client’s stage of change, development, and recovery. Challenges students to examine their existing ideas about treatment and recovery from substance related disorder. Provider approved by the California Board of Registered Nursing, Provider Number CEP60. NR

HS 172
PHYSIOLOGICAL EFFECTS AND PHARMACOLOGY OF ALCOHOL AND DRUGS
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: PSYC 37
Examines the physiological, psychological, and behavioral effects of drug and alcohol addiction. Pharmacologic management, metabolic, neurological processes, and drug use during the perinatal period are included. Analyzes the effects on human development, the syndromes of withdrawal, abstinence, synergistic effects, risk factors and integrates multidisciplinary treatment considerations. NR

HS 174
CASE ADMINISTRATION, CRISIS INTERVENTION AND REFERRAL
3 Units; 3 hours lecture
Transfers: CSU
Introduces basic case administration skills. Includes crisis intervention, treatment planning, securing resources for clients, record documentation, screening, data collection, implementation, and aftercare. Emphasizes care of clients with substance-related and other mental disorders. NR

HS 175
SUBSTANCE ABUSE EDUCATION, PREVENTION, AND INTERVENTION
3 Units; 3 hours lecture
Transfers: CSU
Reviews the history, theories, models, and state-of-the-art approaches to substance abuse education, prevention, and intervention. Provides experiential learning which will enable the students to explore and examine their own values and behaviors as they relate to the use and abuse of alcohol and other drugs. Public policies, media-information dissemination, ethnic and cultural-specific approaches, environmental risk reduction, harm reduction, and healthy alternatives to substance abuse will be presented and discussed. NR

HS 176
CO-OCCURRING DISORDERS
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: HS 172
An introduction to the assessment process for the presence of co-occurring mental disorders and substance misuse disorders. Explores the relationship of these disorders including an introduction to the Diagnostic and Statistical Manual of Mental Disorders; emphasizes the development of concurrent integrated treatment strategies, and the skills required of professionals who interact with clients with co-occurring disorders or dual diagnosis. NR

HS 177
FAMILY DYNAMICS OF ADDICTION AND ABUSE
3 Units; 3 hours lecture
Transfers: CSU
A multifaceted study of violence, abuse, and addiction within the family and social system including abusive acts towards children, significant others, cohabiting relationships, elderly, and special populations. Examines the social and historical contexts of abuse, the relationship of chemical dependency, and the application of models and theories related to working with abused persons, victims of violence, intervention, treatment, legal and ethical considerations surrounding abuse. NR

HS 181
INTRODUCTION TO EATING DISORDERS
3 Units; 3 hours lecture
Transfers: CSU
Introduces students to the history, symptomatology, treatment and resources for anorexia nervosa, bulimia nervosa, binge eating disorder, and other eating disorders. Includes gender, sexual identity and abuse, obesity, cultural differences, societal attitudes, and the addiction cycle. The biological, psychoanalytic, cognitive-behavioral, feminist, family systems, and other theoretical perspectives will be examined. NR

HS 182
SUBSTANCE ABUSE TREATMENT IN CHILDREN AND ADOLESCENTS
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: HS 120, PSYC 7
Explores current treatment trends in substance use and abuse in children and adolescents. Focuses on the continuum of behaviors from first use, to escalation, to more frequent use, leading to a substance related clinical disorder. Intervention, treatment, and recovery strategies for these specialized groups are included. NR
HS 184  
MEDICAL ASPECTS OF EATING DISORDERS  
3 Units; 3 hours lecture  
Transfers: CSU  
Recommended Preparation:  
HS 181  
Identifies classification, epidemiology, etiology, and physiology of obesity, anorexia, bulimia and binge eating disorder. The contemporary methods of assessment, treatment, and complications of obesity, anorexia, bulimia and binge eating disorder are to be examined.  
NR

HS 185  
THE BACKGROUND AND TREATMENT OF EATING DISORDERS  
3 Units; 3 hours lecture  
Transfers: CSU  
Recommended Preparation:  
HS 181  
Addresses the assessment and treatment of eating disorders in various treatment settings (inpatient, day treatment, outpatient), and the use of community support systems. The student will develop a philosophy regarding etiology and treatment for eating disorder clients. The end goal is for the student to understand the complexity and variety of eating disorder treatment approaches.  
NR

HS 187  
JUVENILE VIOLENCE, GANGS, AND VICTIMIZATION  
3 Units; 3 hours lecture  
Transfers: CSU  
Reviews the history of juvenile violence in the United States to its present day escalation. Theories of causative factors related to genetics, social-cultural transmission, psychology, behavior, parricide and substance abuse will be presented and assessed. The role of the juvenile justice system, gang cultures, and victimization will be examined. Addresses pragmatic solutions for lowering juvenile violence.  
NR

HS 220  
BENEFITS AND ENTITLEMENT  
3 Units; 3 hours lecture  
Comprehensive approach to obtaining and maintaining federal, state and regional public income and healthcare coverage for the disabled, elderly and low income individuals and families. Benefits include California State Disability Insurance, Social Security's Supplemental Income (SSI) and Social Security Disability Insurance (SSDI), Medicare and Medi-Cal. This course covers work incentives and employment supportive services. Letter grade only.  
NR

HS 285  
ETHICAL ISSUES/CLIENTS' RIGHTS  
3 Units; 3 hours lecture  
An introductory course focusing on ethical and legal standards and requirements of the human services (HS) profession. Emphasizes the relationship of values in the role of the HS professional, and includes the areas of practice, training, supervision, and consultation. Examines various professional ethical standards and codes of conduct.  
NR

Humanities

HUM 1  
INTRODUCTION TO HUMANITIES  
3 Units; 3 hours lecture  
Transfers: CSU, UC  
Recommended Preparation:  
Eligibility for ENG 1A  
Introduces representative models of human achievement throughout history, with emphasis on an evolving consciousness of moral and aesthetic values associated with the Western mind. It focuses on selected literary and philosophical works as they reflect these values, and on parallel achievements in the visual arts, theater, and music. The course examines the relationship between the work and its author in its historical and cultural context, while distinguishing its purpose, its contemporary impact, and its current significance.  
NR

HUM 2  
ORIGINS OF WESTERN CULTURE IN LITERATURE  
3 Units; 3 hours lecture  
Transfers: CSU, UC  
Recommended Preparation:  
ENG 200  
Investigates the beginnings of Western culture from the time of Homer (c. 9th century B.C.) through the Roman period. The genesis of the Western conceptions of human nature, political theory, ethical notions, religion and art will be elaborated. The literary forms of Classical antiquity will be surveyed, including the Homeric epic, the Greek tragedy, and the comedy. The themes of the Classical authors will form many of the themes of the course, such as man and nature, man’s rights within society, reason and feeling, scientific knowledge and mystical insight, and the nature and basis of moral values.  
NR

HUM 3  
THE CULTURE OF MEDIEVAL AND RENAISSANCE EUROPE  
3 Units; 3 hours lecture  
Transfers: CSU, UC  
Recommended Preparation:  
Eligibility for ENG 1A  
Identifies and studies characteristically Medieval and Renaissance ideas and feelings about a variety of important human experiences as represented across a broad spectrum of the fine arts, philosophy and history. Among the themes to be studied are: the supernatural and the natural, the individual and the state, codes of personal conduct (chivalry and courtesy), the quest for new knowledge, the rise of the secular, and the emergence of a pluralistic universe. The transition from medieval to Renaissance consciousness will be emphasized.  
NR

HUM 10A  
CULTURE, SCIENCE, AND SOCIETY I  
3 Units; 3 hours lecture  
Transfers: CSU, UC  
Prerequisite: Eligibility for ENG 1A  
The first course in a cross-disciplinary Honors sequence organized around a single theme or topic. Designed to explore the continuity of cultural traditions through a study of major works of history, literature, philosophy, social thought, fine arts, and the sciences, and to compare and contrast the modes of inquiry characteristic of those disciplines. This course is open to all students but required of every Honors Program student.  
NR
HUM 10B
CULTURE, SCIENCE, AND SOCIETY II
3 Units; 3 hours lecture
Transfers: CSU, UC
Prerequisite: Eligibility for ENG 1A
The second course in a cross-disciplinary Honors sequence organized around a single theme or topic. Designed to explore the continuity of cultural traditions through a study of major works of history, literature, philosophy, social thought, fine arts, and the sciences, and to compare and contrast the modes of inquiry characteristic of those disciplines. This course is open to all students but required of every Honors Program student. NR

HUM 21
THE SEARCH FOR MEANING: IDEAS OF SELF ACROSS CULTURES
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: Eligibility for ENG 1A
Explores the notions of self and the changing faces of human nature as they shape and are shaped by prevailing social systems and cultural patterns across the world. Compares a variety of fictional and historical figures ranging from the Homeric hero to the Confucian aristocrat, from Joan of Arc to Sojourner Truth, in an attempt to shed light on our own struggle to understand who we are, and how we know who we are, in the contemporary scene. Draws upon the perspectives of disciplines such as history, science, philosophy, literature, and the arts. NR

HUM 22
GODS, CLOCKS, AND VISIONS
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: Eligibility for ENG 1A
An examination of connections between religion, science and the arts in the growth of humanism. Views from many academic fields will provide an enriched perspective of the transition from prehistoric and primitive cultures to the expanded horizons of the 20th century knowledge and belief. Significant concepts, themes and individuals are chosen to represent changing times and places. NR

HUM 25
PLANET EARTH: CONTEMPORARY ISSUES AND CONTROVERSIES
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: Eligibility for ENG 1A
An examination of issues confronting humanity on a global scale at present and into the foreseeable future. Social, educational, biological, economic, political and other contemporary perspectives will be treated. Topics include population growth, food supplies, energy and resources, terrorism and world order, racism and sexism, international affairs; and individual issues such as sex roles, power and powerlessness, individual life cycles, and psychology and metaphysics. NR

HUM 30AH
HONORS CULTURE, SCIENCE, SOCIETY D: WAR I
3 Units; 3 hours lecture
Transfers: CSU, UC
Prerequisite: Eligibility for ENG 1A
Recommended Preparation: Eligibility for ENG 1B
Cross-disciplinary Honors seminar designed to focus on ways in which people have represented, rationalized, propagandized, memorialized, evaluated, or understood, for themselves or others, the human activity of war until the modern era through a study of major works of history, literature, philosophy, social thought, fine arts, or the sciences, and to compare and contrast the modes of inquiry characteristic of those disciplines. This course follows the current U.C. Irvine Humanities Core Course and is open to all students. NR

HUM 30BH
HONORS CULTURE, SCIENCE, SOCIETY B: POWER, RESISTANCE, EMPIRE
3 Units; 3 hours lecture
Transfers: CSU, UC
Prerequisite: Eligibility for ENG 1A
Recommended Preparation: Eligibility for English 1B
Cross-disciplinary Honors seminar designed to focus on ways in which people have represented, rationalized, propagandized, memorialized, evaluated, or understood, for themselves or others, the human activity of war in the 20th and 21st centuries through a study of major works of history, literature, philosophy, social thought, fine arts, or the sciences, and to compare and contrast the modes of inquiry characteristic of those disciplines. This course follows the current U.C. Irvine Humanities Core Course and is open to all students. NR

HUM 30CH
HONORS CULTURE, SCIENCE, SOCIETY C: NATURE & POLITICS I
3 Units; 3 hours lecture
Transfers: CSU, UC
Prerequisite: Eligibility for ENG 1A
Recommended Preparation: Eligibility for English 1B
Cross-disciplinary Honors seminar designed to focus on the development of political and natural philosophy into political science and modern science in Ancient Greece and the Italian Renaissance, through a study of major works of history, literature, philosophy, social thought, fine arts, or the sciences, and to compare and contrast the modes of inquiry characteristic of those disciplines. This course is open to all students. NR

HUM 31AH
HONORS CULTURE, SCIENCE, SOCIETY D: WAR II
3 Units; 3 hours lecture
Transfers: CSU, UC
Prerequisite: Eligibility for ENG 1A
Recommended Preparation: Eligibility for ENG 1B
Cross-disciplinary Honors seminar designed to focus on ways in which people have represented, rationalized, propagandized, memorialized, evaluated, or understood, for themselves or others, the human activity of war in the 20th and 21st centuries through a study of major works of history, literature, philosophy, social thought, fine arts, or the sciences, and to compare and contrast the modes of inquiry characteristic of those disciplines. This course follows the current U.C. Irvine Humanities Core Course and is open to all students. NR
HUM 31BH
HONORS CULTURE, SCIENCE, SOCIETY B: TRANSFORMATION OF EMPIRE
3 Units; 3 hours lecture
Transfers: CSU, UC
Prerequisite: Eligibility for ENG 1A
Recommended Preparation: Eligibility for ENG 1B
Cross-disciplinary Honors seminar designed to focus on the transformation of European empire into the post-colonial world through a study of major works of history, literature, philosophy, social thought, fine arts, or the sciences, and to compare and contrast the modes of inquiry characteristic of those disciplines. This course is open to all students. NR

HUM 31CH
HONORS CULTURE, SCIENCE, SOCIETY C: NATURE & POLITICS II
3 Units; 3 hours lecture
Transfers: CSU, UC
Prerequisite: Eligibility for ENG 1A
Recommended Preparation: Eligibility for ENG 1B
Cross-disciplinary Honors seminar designed to focus on natural and social sciences and their political impacts since 1800 through a study of major works of history, literature, philosophy, social thought, fine arts, or the sciences, and to compare and contrast the modes of inquiry characteristic of those disciplines. This course is open to all students. NR

Insurance Billing
INSR 200
ADVANCED CODING AND CERTIFICATION PREPARATION
3 Units; 3 hours lecture
Recommended Preparation: MA 224A, MA 226A, and MA 228A
Advanced medical coding prepares students for certification as a Certified Procedural Coder (CPC) through the American Academy of Professional Coders (AAPC). Students will develop in-depth understanding of physician-based medical coding using critical thinking skills to abstract the pertinent information from documents, select the right codes, and determine the correct sequence of the codes using International Classification of Disease (ICD) and Current Procedural Terminology (CPT) and Healthcare Common Procedure Coding System (HCPCS). Letter grade only. NR

Intercollegiate Athletics
IA 1
MEN’S FOOTBALL
3 Units; 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Recommended Preparation: Previously competed at the high school, community college, or 4-year college in interscholastic or intercollegiate football.
Student athletes will train and participate in Intercollegiate Football. R-E-3
IA 2
MEN’S BASKETBALL
1.5 Units; 5 hours lab
3 Units; 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Men’s Basketball. The 1.5 unit/5 hours lab will be scheduled spring semester only and the 3 unit/10 hours lab will be scheduled fall semester only. R-E-3
IA 3
MEN’S BASEBALL
3 Units; 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Baseball. R-E-3
IA 4
MEN’S TRACK AND FIELD
3 Units; 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Men’s Track and Field. R-E-3
IA 5
MEN’S CROSS COUNTRY
3 Units; 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Men’s Cross Country. R-E-3
IA 6
MEN’S GOLF
3 Units; 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Men’s Golf. R-E-3
IA 7
MEN’S WATER POLO
3 Units; 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Men’s Water Polo. R-E-3
IA 8
MEN’S SWIMMING AND DIVING
3 Units; 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Men’s Swimming and Diving. R-E-3
IA 9
MEN’S TENNIS
3 Units; 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Recommended Preparation: Previously competed at high school, community college, 4 year college, or adult advanced tennis level.
Student athletes will train and prepare for Intercollegiate Men’s Tennis competition. R-E-3
IA 10
WOMEN’S VOLLEYBALL
3 Units; 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Women’s Volleyball. R-E-3
IA 11
WOMEN’S SOFTBALL
3 Units; 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Softball. R-E-3

IA 12
WOMEN’S BASKETBALL
1.5 Units; 5 hours lab
3 Units; 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Women’s Basketball. The 1.5 unit/5 hours lab will be scheduled spring semester only and the 3 unit/10 hours lab will be scheduled fall semester only. R-E-3

IA 13
WOMEN’S TENNIS
3 Units; 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Women’s Tennis. R-E-3

IA 14
WOMEN’S SWIMMING AND DIVING
3 Units; 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Women’s Swimming and Diving. R-E-3

IA 15
WOMEN’S CROSS COUNTRY
3 Units; 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Women’s Cross Country. R-E-3

IA 17
WOMEN’S WATER POLO
3 Units; 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Women’s Water Polo. R-E-3

IA 18
WOMEN’S GOLF
3 Units; 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Women’s Golf. R-E-3

IA 19
WOMEN’S SOCCER
3 Units; 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Women’s Soccer. R-E-3

IA 20
WOMEN’S SPORTS OFF SEASON TRAINING
0.5 Unit; 2.5 hours lab
1.5 Units; 5 hours lab
3 Units; 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Recommended Preparation: Previously competed at the high school, competitive club level, community college, or 4-year college in interscholastic or intercollegiate athletics.
Off season training designed for men’s intercollegiate athletics with an emphasis on aerobic and anaerobic conditioning, sports specific strength development, skills training, play strategies, and nutrition for optimal performance (formerly IA 130). R-E-3

IA 21
WOMEN’S VOLLEYBALL
3 Units; 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Women’s Volleyball. R-E-3

IA 22
WOMEN’S SAND VOLLEYBALL
3 Units; 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Provides an opportunity for students to train and participate in Intercollegiate Women’s Sand Volleyball. R-E-3

IA 30
MEN’S SPORTS OFF SEASON TRAINING
0.5 Unit; 2.5 hours lab
1.5 Units; 5 hours lab
3 Units; 10 hours lab
Transfers: CSU, UC
Limitation: Physical examination and be declared fit for athletics by a medical doctor (MD)
Recommended Preparation: Previously competed at the high school, competitive club level, community college, or 4-year college in interscholastic or intercollegiate athletics.
Off season training designed for men’s intercollegiate athletics with an emphasis on aerobic and anaerobic conditioning, sports specific strength development, skills training, play strategies, and nutrition for optimal performance (formerly IA 130). R-E-3

ID 110
FUNDAMENTALS OF INTERIOR DESIGN
3 Units; 3 hours lecture
Transfers: CSU
Study the design elements and principles related to interior environments. Analysis and critique of floor plans; furniture arrangement; color theory, and coordination of color, texture, and pattern for human environments. Analysis of special environmental considerations for sustainability, green design, and energy conservation in interiors. Overview of the aesthetic and functional assessment of interior furniture, floor, wall, window, illumination, and accessory treatments. NR
ID 111
INTERIOR DESIGN STUDIO I
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Recommended Preparation: Completion or concurrent enrollment in ID 110
Designed to apply concepts and theories presented in the lecture course, ID 110, Fundamentals of Interior Design. Emphasis is placed on the design process in developing solutions for design projects. NR

ID 112
BEGINNING DRAFTING FOR INTERIORS
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Applications of methods and theory used for architectural drawings, including basic graphics and projections for design and working drawings. NR

ID 113
INTERIOR DESIGN CAREERS
2 Units; 2 hours lecture
Transfers: CSU
Survey of the interior design profession, industry, related occupations, and worksites. Emphasizes personal, educational, and professional qualifications required for entry into the interior design profession. NR

ID 114
APPLIED COLOR AND DESIGN THEORY FOR INTERIOR DESIGN
4 Units; 3 hours lecture; 3 hours lab
Transfers: CSU
Basic color and design theory and application. Utilization of tools, materials, and equipment to develop technical skills applicable to interior, architectural, and other related fields of design. Exploration of cultural heritage and psychological implication of design. NR

ID 115
COMPUTER-AIDED DESIGN/DRAFTING FOR INTERIOR DESIGN
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Recommended Preparation: ID 112
Introduces the basic skills, techniques, and uses for computer-aided design and drafting. NR

ID 116
INTERIOR MATERIALS AND PRODUCTS
3 Units; 3 hours lecture
Transfers: CSU
Analysis, application, and evaluation of products and materials used in interior design. Includes interior textiles, furnishings, and finish materials and products. NR

ID 121
SPACE PLANNING
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Recommended Preparation: ID 112
Application of programming, theory, and techniques in residential and commercial space planning. Skills in drafting and presentation techniques are emphasized in the studio. NR

ID 122
HISTORY OF INTERIOR ARCHITECTURE AND FURNISHINGS I
3 Units; 3 hours lecture
Transfers: CSU
Historical relationship between the decorative arts, period furniture, and interior architecture is illustrated in this overview of design heritage from antiquity through the 18th century in Europe. Emphasis is placed on style development as it relates to social, economic, and political influences. NR

ID 123
INTERIOR DESIGN ILLUSTRATION
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Recommended Preparation: ID 112
Application of the methods, techniques, and tools used for illustrating interior spaces and products. NR

ID 125
HISTORY OF INTERIOR ARCHITECTURE AND FURNISHINGS II
3 Units; 3 hours lecture
Transfers: CSU
Historical relationship between the decorative arts, period furniture and interior architecture is illustrated in this overview of design heritage. Covers the 19th and 20th centuries in Europe and 17th through 20th centuries in America and analyzes the influences as well as changes in design to the present. Emphasis is placed on style development as it relates to social, economic, and political forces. NR

ID 126
INTERIOR DESIGN STUDIO II
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Recommended Preparation: ID 114 and 121
Develop, analyze, and apply design concepts to interior environments. Universal design, environmentally conscious design, space planning, lighting systems, interior components, architectural elements, and specifications writing will be integrated into research projects emphasizing a problem-solving approach. NR

ID 127
FUNDAMENTALS OF LIGHTING
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: ID 110 and 112
Fundamentals of lighting, design, theory, and application, including the history and vocabulary of lighting. Topics to be explored are how light affects color and vision, incandescent, fluorescent, and high intensity discharge lamps, new lighting technology, lighting techniques, codes, green, and energy-efficient lighting practices. NR

ID 128
BUSINESS AND PROFESSIONAL PRACTICE FOR INTERIOR DESIGN
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: ID 113
Business and professional management of an interior design practice including legal issues, project management, and business practices. NR

ID 129
INTERIOR DESIGN INTERNSHIP
1 Unit; 1 hour lecture
Transfers: CSU
Corequisite: CWE 180
Supervised and educationally-directed internship. Weekly lectures will relate on-the-job experiences with academic program. To be taken in the final semester of program. NR
ID 133
**RENDERING AND RAPID VISUALIZATION FOR INTERIOR DESIGN**
3 Units; 2 hours lecture; 3 hours lab

Transfers: CSU

Recommended Preparation: ID 115

Application of the methods, techniques, and tools used for illustrating interior spaces and products with an emphasis placed on rapid production. NR

ID 210
**HOSPITALITY DESIGN**
3 Units; 2 hours lecture; 3 hours lab

Recommended Preparation: ID 126 and 133

Analysis and application of the design process to space planning, materials and finish choices, codes application, and selection of specialized equipment unique to planning hospitality spaces. Design solutions to hospitality will be developed in the studio. NR

ID 211
**CODES AND SPECIFICATIONS FOR INTERIOR DESIGN**
3 Units; 3 hours lecture

Explores federal, state, and local regulations, codes, and specifications concerning life-safety issues, barrier-free access (American Disabilities Act), and universal design requirements relative to residential and contract design. Special attention is given to performance, health-safety, and universal design when estimating and preparing specifications for interior materials and products. NR

ID 212
**ADVANCED COMPUTER-AIDED DESIGN/DRAFTING FOR INTERIOR DESIGN**
3 Units; 2 hours lecture; 3 hours lab

Recommended Preparation: ID 115

Develops proficiency and skills in 2D and 3D computer-aided design and drafting for Interior Design applications. NR

ID 214
**BATH DESIGN**
3 Units; 2 hours lecture; 3 hours lab

Recommended Preparation: ID 126 and 133

Analysis and application of the design process to space planning, materials and finish choices, codes application, and selection of specialized equipment unique to planning bath spaces. Design solutions for baths will be developed in the studio. NR

ID 215
**KITCHEN DESIGN**
3 Units; 2 hours lecture; 3 hours lab

Recommended Preparation: ID 126 and 133

Analysis and application of the design process to space planning, materials and finish choices, codes application, and selection of specialized equipment unique to planning kitchen spaces. Design solutions for kitchens will be developed in the studio. NR

ID 216
**DIGITAL VISUALIZATION FOR INTERIOR DESIGN**
3 Units; 2 hours lecture; 3 hours lab

Recommended Preparation: ID 115; 123

Introduces the methods, techniques, and tools for creating digital 3D models, rendered illustrations, and material boards by utilizing a variety of software programs and technologies toward composing effective Interior Design presentations. NR

Italian

**ITA 1**
**ELEMENTARY ITALIAN**
5 Units; 5 hours lecture

Transfers: CSU, UC

Prerequisite: ITA 1 or two years of high school Italian

Corequisite: ITA 902

Designed to further the fundamentals of communicative competence in daily spoken Italian. Although the focus remains on listening comprehension and speaking, reading and writing skills will be expanded. This course continues the familiarization with customs and cultural achievements begun in the previous semester. NR

**ITA 2**
**ELEMENTARY ITALIAN**
5 Units; 5 hours lecture

Transfers: CSU, UC

Prerequisite: ITA 1 or two years of high school Italian

Corequisite: ITA 902

Designed to further the fundamentals of communicative competence in daily spoken Italian. Although the focus remains on listening comprehension and speaking, reading and writing skills will be expanded. This course continues the familiarization with customs and cultural achievements begun in the previous semester. NR

**ITA 3**
**INTERMEDIATE ITALIAN**
5 Units; 5 hours lecture

Transfers: CSU, UC

Prerequisite: ITA 2 or three years of high school Italian

Corequisite: ITA 903

Reviews the fundamentals with further study of the Italian language and culture. NR

**ITA 4**
**INTERMEDIATE ITALIAN**
5 Units; 5 hours lecture

Transfers: CSU, UC

Prerequisite: ITA 3 or four years of high school Italian

Corequisite: ITA 904

Concentrates on the development of fluency in the skills needed to communicate in Italian. Further study of cultural topics. NR

**ITA 10**
**INTERMEDIATE CONVERSATIONAL ITALIAN**
3 Units; 3 hours lecture

Transfers: CSU, UC

Prerequisite: ITA 2 or three years of high school Italian

Designed to develop fluency in Italian. The emphasis is on both formal and informal expression and conversation in the language. NR

**ITA 21**
**INTRODUCTION TO ITALIAN CULTURE**
3 Units; 3 hours lecture

Transfers: CSU, UC

Prerequisite: ITA 1 or two years of high school Italian

Recommended Preparation: College-level reading ability

Designed to provide a brief overview in English of the Italian culture. Areas of study include history, music, literature, philosophy, political ideas, customs and Italy’s influence on and contribution to the civilization of the United States and the world. No prior study of the Italian language or culture is required. NR
**Japanese**

**JA 1**

**ELEMENTARY JAPANESE**

*5 Units; 5 hours lecture*

**Transfers:** CSU, UC  
**Corequisite:** JA 901  
**Recommended Preparation:** College level reading ability  
Designated to develop the fundamentals of communicative competence in daily spoken Japanese. The emphasis is on listening, comprehension, and conversational skills. Early reading and writing skills are introduced, as well as fundamental aspects of culture. Equivalent to two years high school Japanese. **NR**

**JA 2**

**ELEMENTARY JAPANESE**

*5 Units; 5 hours lecture*

**Transfers:** CSU, UC  
**Prerequisite:** JA 1 or two years of high school Japanese  
**Corequisite:** JA 902  
Designed to further the fundamentals of communicative competence in daily spoken Japanese. Although the focus remains on oral skills and aural comprehension, reading and writing skills will be expanded with introduction of 100 Kanji (Chinese Characters) in addition to Kana, which was already mastered by the students in previous course(s). Cultural topics will also be covered. **NR**

**JA 3**

**INTERMEDIATE JAPANESE**

*5 Units; 5 hours lecture*

**Transfers:** CSU, UC  
**Prerequisite:** JA 2 or three years of high school Japanese  
**Corequisite:** JA 903  
Intermediate level course focuses on fluency in reading, writing, speaking, and listening. Continues the study of Japanese cultures. **NR**

**JA 4**

**INTERMEDIATE JAPANESE**

*5 Units; 5 hours lecture*

**Transfers:** CSU, UC  
**Prerequisite:** JA 3 or four years of high school Japanese  
**Corequisite:** JA 904  
Emphasizes fluency in speaking, reading, writing, and comprehension of Japanese. Includes selected reading and discussions from the basic four genres in Japanese and Japanese-American literature, culture, and customs. **NR**

**JA 21**

**INTRODUCTION TO JAPANESE CULTURE**

*3 Units; 3 hours lecture*

**Transfers:** CSU, UC  
**Recommended Preparation:** College-level reading ability  
Designed to provide a brief overview in English of the Japanese culture. Areas of study include geography, history, literature, art, philosophy, religion, and customs of the Japanese people. No prior study of the Japanese language or culture is required. **NR**

**German**

**ITA 901**

**ITALIAN LANGUAGE LAB**

*0.25 Unit; 1 hour learning center*

**Corequisite:** ITA 1  
Requires concurrent enrollment in Italian 1 course. Enhances and provides practice in skills learned in Italian 1 language course. **NR**

**ITA 902**

**ITALIAN LANGUAGE LAB**

*0.25 Unit; 1 hour learning center*

**Corequisite:** ITA 2  
Requires concurrent enrollment in Italian 2. Enhances and provides practice in skills learned in Italian 2 language course. **NR**

**ITA 903**

**ITALIAN LANGUAGE LAB**

*0.25 Unit; 1 hour learning center*

**Corequisite:** ITA 3  
Requires concurrent enrollment in Italian 3. Enhances and provides practice in skills learned in Italian 3 language course. **NR**

**ITA 904**

**ITALIAN LANGUAGE LAB**

*0.25 Unit; 1 hour learning center*

**Corequisite:** ITA 4  
Requires concurrent enrollment in Italian 4. Enhances and provides practice in skills learned in Italian 4 language course. **NR**

**Journalism**

**JRN 1**

**MASS MEDIA AND SOCIETY**

*3 Units; 3 hours lecture*

**Transfers:** CSU, UC  
A study of mass media and media technology as they apply to society. Includes a study of media functions, responsibilities, practices, and influences, as well as a study of media law, ethics, history, development, and potential for the future. The course is designed to increase student awareness of the impact of mass media in shaping society. Also listed as CTVR 1. Credit given in either area, not both. **NR**

**JRN 2**

**NEWS WRITING**

*3 Units; 3 hours lecture*

**Transfers:** CSU, UC  
**Prerequisite:** Eligibility for ENG 1A  
Emphasizes news writing and reporting, methods of news gathering, organization and writing of articles. Includes the interpretation of significant news events and studies techniques of in-depth reporting. **NR**
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<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<td>FEATURE WRITING</td>
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<td>JRN 106</td>
<td>VIDEO JOURNALISM</td>
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<td>techniques to produce multimedia</td>
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<td>pieces for the web, tablets and</td>
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<td>emerging platforms with a focus on</td>
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<td>video journalism. Topics include</td>
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<td>multimedia storytelling that incorporates</td>
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<td>writing, and still photographs. An</td>
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<td>journalistic, documentary-style video</td>
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<td>storytelling for the news media. Also listed as</td>
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<td>CTVR 106. Credit given in either area, not both.</td>
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<td>JRN 107</td>
<td>NEWS MEDIA PRODUCTION AND INVESTIGATIVE</td>
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<td>mobile and emerging platforms). This</td>
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<td>course produces content for student</td>
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<td>JRN 108</td>
<td>INTRO TO PODCASTING AND</td>
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<td>AUDIO STORYTELLING</td>
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<td>Introduction to all aspects of audio</td>
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<td>storytelling and podcasting. Students</td>
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<td>will produce content in the form of</td>
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<td>podcasts, live and pre-recorded talk</td>
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<td>shows, radio documentaries, newscasts,</td>
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<td>broadcast news spots, and emerging formats.</td>
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<td>Basic writing for broadcast, audio storytelling</td>
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<td>and editing will be covered. Ethical and</td>
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<td>legal aspects of broadcast communication and</td>
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<td>radio journalism are also covered. An</td>
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<td>emphasis will be placed on producing content</td>
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<td>for public radio. Work will be produced</td>
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<td>for distribution on campus news media outlets.</td>
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<td>JRN 109</td>
<td>NEWS MEDIA PRODUCTION AND DATA REPORTING</td>
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<td>Provides practical instruction in news media</td>
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<td>emerging platforms). This course produces</td>
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<td>content for student media outlets.</td>
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<td>JRN 110</td>
<td>INTERACTIVE MEDIA DESIGN</td>
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<td>Introduces students to basic concepts of</td>
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<td>interactive design for digital media with</td>
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<td>a journalistic emphasis. Students may design</td>
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<td>interactive multimedia packages, graphics,</td>
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<td>animation, mobile applications, digital e-book</td>
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<td>reader interactives, widgets, tablet</td>
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<td>publications and more. An introduction to</td>
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<td>engagement and interactivity, and</td>
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<td>presentation of journalistic content on</td>
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<td>a variety of platforms will be discussed in</td>
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<td>on accuracy, journalistic content, as well as</td>
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<td>clear and dynamic presentation.</td>
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<td>JRN 111</td>
<td>NEWS MEDIA PRODUCTION AND EDITING</td>
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<td>print and online publications as required to</td>
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<td>produce the campus news publications, including</td>
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<td>copy editing, headline writing, photo</td>
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<td>editing, SEOs, AP Style, etc. are explored.</td>
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<tr>
<td>JRN 112</td>
<td>NEWS MEDIA PRODUCTION, BLOGGING AND SOCIAL</td>
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<td>MEDIA</td>
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<td>Recommended Preparation:</td>
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<td>ENG 1A or JRN 2</td>
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<td>Provides practical instruction on news</td>
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<td>media production, blogging and social</td>
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<td>media. Students will produce blogs and</td>
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<td>utilize popular and emerging social media tools</td>
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<td>as part of the student online campus</td>
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<tr>
<td>JRN 113</td>
<td>MAGAZINE PRODUCTION FOR DIGITAL PLATFORMS</td>
<td>3</td>
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<td>JRN 125</td>
<td>MAGAZINE JOURNALISM</td>
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<td>phases of producing a magazine.</td>
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Kinesiology—Adapted

KNEA 1
ADAPTED STRENGTH TRAINING
0.5 Unit; 0.5 hours lecture; 0.5 hours lab
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Fitness class stressing strength, resistance training, and endurance. Designed for students that have participated in physical therapy, have a chronic medical diagnosis, or permanent disability. NR

KNEA 2
ADAPTED WATER EXERCISE AND SWIMMING
0.5 Unit; 0.5 hours lecture; 0.5 hours lab
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Consists of aquatic exercise and modified swimming to improve strength, cardiovascular endurance, flexibility, balance, and/or gait. Designed for those that have participated in therapy, rehabilitation, have chronic medical diagnoses, or permanent disabilities. NR

KNEA 3
ADAPTED CARDIOVASCULAR CONDITIONING
0.5 Unit; 0.5 hours lecture; 0.5 hours lab
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Fitness class stressing aerobic conditioning and cardiovascular fitness. Designed for students that have participated in physical therapy, have a chronic medical diagnosis, or permanent disability. NR

KNEA 4
ADAPTED STRETCHING AND CORE TRAINING
0.5 Unit; 0.5 hours lecture; 0.5 hours lab
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Fitness class stressing flexibility and core strengthening exercises. Designed for students that have participated in physical therapy, have chronic pain or permanent disability. NR

KNEA 6
ADAPTED SPORTS
0.5 Unit; 0.5 hours lecture; 0.5 hours lab
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Introduction to sports including basketball, soccer, floor hockey, softball, bocce ball, and tennis. Designed for individuals who need assistance and equipment adaptations in activities and sports. NR

KNEA 8
ADAPTED OUTDOOR EDUCATION AND RECREATION
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
An introduction to outdoor education and recreation designed for students with special needs and varying abilities. This class focuses on safety, outdoor fitness conditioning, and the basic skills needed to interact with the outdoor environment while participating in a variety of outdoor activities, such as stand up paddling, kayaking, sailing, surfing, body boarding, snorkeling, hiking, rock climbing, archery, paintball, and fishing. NR

KNEA 107
SURVEY AND ASSESSMENT OF FITNESS
1 Unit; 1 hour lecture
Transfers: CSU
An assessment of the physical condition of the disabled student which includes testing and evaluation of muscular strength and endurance, flexibility, body composition, cardiovascular endurance, skill-related fitness, and aquatic ability. Personality factors will be studied to learn more about stress reduction and lifestyle changes. Information regarding nutrition, weight management, and personal program for lifetime fitness will be presented. Different testing and assessment techniques will be used in this course. NR

KNEA 151
INTRO TO THERAPY AND CAREER EXPLORATION OF REHABILITATION
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Designed to provide information and practical experience to students pursuing a career in physical therapy, occupational therapy, recreation therapy, adapted physical education, speech pathology or other health care fields that work with special populations. Also offered as HSC 151. Credit given in either area, not both (formerly SE 101). NR

KNEA 152
ADAPTED KINESIOLOGY ASSISTING
1 Unit; 6 hours lab
Transfers: CSU
Recommended Preparation: KNEA 151/HSC 151
Designed to provide practical experience and fundamental application of applied exercise for disabled students active in an adapted physical education program. Students have the opportunity to work with individuals with a variety of disabilities and medical conditions. Also offered as HSC 152. Credit given in either area, not both (formerly SE 102). NR

KNEA 300
ADAPTED STRENGTH TRAINING
0 Unit; 1 hour lecture; 2 hours lab
Fitness class stressing strength, flexibility, and cardiovascular endurance. Designed for students that have participated in physical therapy, have a chronic medical diagnosis, or permanent disability. NR
Knea 310
Adapted Water Exercise and Swimming
0 Unit; 1 hour lecture; 2 hours lab
Consists of mobility, balance, gait training, strengthening, cardiovascular conditioning, flexibility, range of motion exercises, and modified swimming. Designed for those that have participated in therapy, rehabilitation, have chronic medical diagnoses or permanent disabilities. NR

Kinesiology

KnE 1
Cardiovascular Conditioning
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Focuses on individual cardiovascular and respiratory fitness using cardiovascular conditioning as a way of developing and maintaining health. The activities portion of the course will be tailored to meet the needs of the individual student, considering age, sex and general health. Students are limited to a combined total of four enrollments in KnE 1, 3, 7, 8, 16, 50, and DANC 77. NR

KnE 2
Strength Training
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Focuses on improving strength through individualized training programs. Suits men and women interested in improving strength, power, and athletic performance. Includes physiology of strength training, equipment and safety considerations; sport specific training; program design for power, strength, and techniques of lifting; and nutrition for optimal performance. Students are limited to a combined total of four enrollments in KnE 2, 10, 31, and 66. NR

KnE 3
Circuit Weight Training
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Focusses on circuit training on a personal basis. Modifications of original programs may be needed based upon the results of fitness appraisals at the beginning of the semester. Includes assessment of various components of fitness. Students are limited to a combined total of four enrollments in KnE 1, 3, 7, 8, 16, 50, and DANC 77. NR

KnE 4
Beginning Weight Lifting
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Basic skills and methods used in weight lifting. Free weights and machines will be used to develop lean muscle and decrease body fat. Individual workout program on resistance exercise equipment. Students are limited to a combined total of four enrollments in KnE 4, 5, and 6. NR

KnE 5
Intermediate Weight Lifting
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Recommended Preparation: KnE 4
Principles and techniques for students interested in weight lifting for increased muscle strength in sports activities or competition. Students are limited to a combined total of four enrollments in KnE 4, 5, and 6. NR

KnE 6
Advanced Weight Lifting
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Recommended Preparation: KnE 4
Advanced instruction and sport specific practice in the techniques of developing muscle strength and endurance for maximizing performance. Power lifting, resistance machines, free weights, and additional equipment will be utilized. Advanced training, principles, and theories. Students are limited to a combined total of four enrollments in KnE 4, 5, and 6. NR

KnE 7
Step Training
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU, UC
Step training is a cardiovascular program which involves stepping up and down on an adjustable platform while simultaneously performing upper body strength movements to the accompaniment of music. Step training is for both men and women, from beginners to conditioned athletes. To change the intensity, students may alter the height of the platform. This course is comprehensive, balanced, and works every major muscle group. Students are limited to a combined total of four enrollments in KnE 1, 3, 7, 8, 16, 50, and DANC 77. NR

KnE 8
Cardio Kickboxing
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Recommended Preparation: KnE 4
A coed fitness course for all ages and abilities for overall body conditioning. Designed to provide students a safe and effective cardiovascular workout that utilizes skills from sports, kickboxing, and self-defense, combined with constant aerobic movement. Strengthens entire body, with progression from beginning through advanced segments. Students are limited to a combined total of four enrollments in KnE 1, 3, 7, 8, 16, 50, and DANC 77. NR
<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Description</th>
<th>Transfers</th>
<th>Recommended Preparation</th>
<th>Notes</th>
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<tbody>
<tr>
<td>KNES 9</td>
<td>1</td>
<td>0.5</td>
<td>1.5</td>
<td>Stretching, Flexibility, and Conditioning</td>
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<td>KNES 38, DANC 63, DANC 65</td>
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<tr>
<td>KNES 10</td>
<td>1</td>
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<td>1.5</td>
<td>Cross Training</td>
<td>CSU, UC</td>
<td>KNES 116</td>
<td>NR</td>
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<td>KNES 15</td>
<td>1</td>
<td>0.5</td>
<td>1.5</td>
<td>Intermediate Cycling/Spinning</td>
<td>CSU, UC</td>
<td>KNES 111</td>
<td>NR</td>
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<td>KNES 16</td>
<td>1</td>
<td>0.5</td>
<td>1.5</td>
<td>Intermediate Cardio Kickboxing</td>
<td>CSU, UC</td>
<td>KNES 116</td>
<td>NR</td>
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<td>1.5</td>
<td>Beginning Bowling</td>
<td>CSU, UC</td>
<td>KNES 116</td>
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<td>Intermediate Bowling</td>
<td>CSU, UC</td>
<td>KNES 116</td>
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<td>KNES 19</td>
<td>1</td>
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<td>Cycling/Spinning</td>
<td>CSU, UC</td>
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<td>KNES 20</td>
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<td>0.5</td>
<td>1.5</td>
<td>Beginning Golf I</td>
<td>CSU, UC</td>
<td>KNES 116</td>
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<td>KNES 21</td>
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<td>0.5</td>
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<td>Beginning Golf II</td>
<td>CSU, UC</td>
<td>KNES 116</td>
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<td>KNES 22</td>
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<td>0.5</td>
<td>1.5</td>
<td>Intermediate Golf</td>
<td>CSU, UC</td>
<td>KNES 116</td>
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KNES 23
ADVANCED GOLF
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 22
The nine fundamental errors in golf are analyzed. The correction of the hook, slice, shank, push, and topped shots are discussed and demonstrated. Match play is arranged between class members by their ability or through established handicaps. Students must furnish their own transportation to the golf course. Students are limited to a combined total of four enrollments in KNES 20, 21, 22, and 23. NR

KNES 24
BEGINNING TENNIS I
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Presentation of the official doubles and singles games, including forehand and backhand strokes, serve, basic strategy, footwork, and etiquette. Students are limited to a combined total of four enrollments in KNES 24, 25, 26, and 27. NR

KNES 25
BEGINNING TENNIS II
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 24
Designed for the student not quite proficient with strokes and strategy, or the intermediate level of tennis. Students are limited to a combined total of four enrollments in KNES 24, 25, 26, and 27. NR

KNES 26
INTERMEDIATE TENNIS
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 25
Emphasis on individual stroke analysis, playing strategy, and match play, singles and doubles. Students are limited to a combined total of four enrollments in KNES 24, 25, 26, and 27. NR

KNES 27
ADVANCED TENNIS
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 26
Emphasis on advanced techniques, playing strategy, and match play, singles, doubles and mixed doubles. Field trips may be required. Students are limited to a combined total of four enrollments in KNES 24, 25, 26, and 27. NR

KNES 28
BEGINNING YOGA
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Introduction and practice of the basic principles of physical yoga. Emphasis is on exercises called asanas, focusing on correct postural alignment, balance, joint flexibility, and muscle tone. Includes breathing techniques for stress reduction and to enhance the mind-body connection. Students are limited to a combined total of four enrollments in KNES 28, 39, 40, and 46. NR

KNES 29
INTRODUCTION TO TAI CHI CH’UAN
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: DANC 28
Introduction to fundamental principles of the ancient Taoist art. Special emphasis is given to the development of balance, harmony, and physical strength through the discipline of slow, fluid movements. Students are limited to a combined total of four enrollments in KNES 29, 37, and 98. NR

KNES 30
ADVANCED TRACK AND FIELD
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: Participation on Interscholastic Track and Field or Cross Country Team or equivalent experience
Designed for those students of advanced ability in track and field or cross country running who have competed on an interscholastic team or equivalent. Fundamentals of all events will be stressed. Recommended for kinesiology majors and those interested in intercollegiate competition. NR

KNES 31
MUSCLE TONING FOR WOMEN
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
For women of any age and fitness level desiring development of muscular fitness. For those who are starting a muscle toning program or wanting to improve an existing training regimen. Benefits and principles of muscle fitness, prevention of osteoporosis, myths and misconceptions of training, nutrition, safety, equipment, and individual programs for lifetime fitness. Students are limited to a combined total of four enrollments in KNES 2, 10, 31, and 66. NR

KNES 33
BEGINNING SURFING I
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU, UC
Limitation: Must pass swim test
Designed to meet the needs of the beginning surfer. Dry land instruction will cover such topics as: historical perspectives of surfing, ocean safety, surfing etiquette, wave selection, proper paddling, and appropriate take-off procedures. Students will be required to provide own equipment and display an understanding of appropriate surfing equipment. Students are limited to a combined total of four enrollments in KNES 33, 34, 35, and 36. NR
KNES 34
BEGINNING SURFING II:
SHORTBOARDING
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU, UC
Limitation: Must pass swim test
Recommended Preparation: KNES 33
Secondary level surf class provides experienced surfers with the knowledge and skills to become confident and competent in their surfing ability on a shorter surfboard in faster, steeper, waves. Course covers basic ocean safety and first aid, surfing etiquette, negotiating big sets, paddling and dropping in to faster, steeper waves, and learning to maneuver a shortboard. Students must provide their own equipment. Students are limited to a combined total of four enrollments in KNES 33, 34, 35, and 36. NR

KNES 35
INTERMEDIATE SURFING
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU, UC
Limitation: Must pass swim test
Recommended Preparation: KNES 34
Designed for the surfer who can negotiate waves and do basic turns on a consistent basis. Ocean knowledge such as currents, wave development, wind pattern, and ocean floor terrain will be presented. Surfers will be taught such short and longboard maneuvers as: Duck dive, cutback, “off the lip,” roundhouse, sideslip, crossover, and walk to nose. Students will become confident in riding surf four feet and larger. Students provide own equipment. Students are limited to a combined total of four enrollments in KNES 33, 34, 35, and 36. NR

KNES 36
ADVANCED SURFING
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU, UC
Limitation: Must pass swim test
Recommended Preparation: KNES 35
Designed to meet the needs of the advanced surfer interested in extreme maneuvers and competing at the collegiate level. Students provide own equipment. Students are limited to a combined total of four enrollments in KNES 33, 34, 35, and 36. NR

KNES 37
INTERMEDIATE TAI CHI
CH’UAN
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 29
Progressive course from the fundamental movements of the ancient Taoist art of Tai Chi. Intermediate forms, techniques, and principles to increase strength and balance through slow, fluid movements. Formerly KNES 137. Students are limited to a combined total of four enrollments in KNES 29, 37, and 98. NR

KNES 38
INTERMEDIATE MAT PILATES
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 65/DANC 65
Intermediate progression of mat exercises emphasizing the principles of Joseph Pilates. Improvement of back strength, flexibility, and postural alignment by integration of physical and mental aspects of movement. Proper breathing techniques are emphasized. Also listed as DANC 38, credit given in either area, not both (formerly KNES 138). Students are limited to a combined total of four enrollments in KNES 9, KNES/DANC 38, DANC 63, and KNES/DANC 65. NR

KNES 39
INTERMEDIATE YOGA
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 28
Intermediate level course exploring and integrating the principles and practice of yoga. Emphasis is on postural work and vinyasa (flow) for improved body alignment, flexibility, balance, physical endurance, and muscle tone. Breathing techniques are integrated to enhance the mind-body connection, increase oxygen intake, and reduce stress (formerly KNES 139). Students are limited to a combined total of four enrollments in KNES 28, 39, 40, and DANC 28. NR

KNES 40
ADVANCED YOGA
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 28
Blending the principles and practices of various yoga techniques for total body fitness. Practice will include Yoga for flexibility and body balance, focusing on strength and cardiovascular training and Pilates techniques to increase concentration and core stabilization. Students are limited to a combined total of four enrollments in KNES 28, 39, 40, and DANC 28. NR

KNES 41
SWIMMING FOR NONSWIMMERS
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
A beginning course in the instruction and practice of the most fundamental elements of swimming, diving, and safety skills. Students are limited to a combined total of four enrollments in KNES 41, 42, 43, 44, and 49. NR

KNES 42
INTERMEDIATE SWIMMING
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 41
Designed to teach more intermediate strokes between beginner and advanced swimmer. Includes instruction in crawl stroke, breaststroke, side stroke, back crawl and elementary backstroke, treading, and safety skills. Students are limited to a combined total of four enrollments in KNES 41, 42, 43, 44, and 49. NR
KNES 43
ADVANCED SWIMMING AND DIVING
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 42
Designed to teach students advanced swimming and diving skills. Safety in regard to lifesaving and elementary forms of rescue will be stressed. Field trips may be required. Students are limited to a combined total of four enrollments in KNES 41, 42, 43, 44, and 49. NR

KNES 44
AQUATIC CONDITIONING
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Recommended Preparation: Basic swimming ability
Designed to develop and maintain physical fitness through swimming. Emphasis will be placed on endurance training for improved cardiovascular fitness. Students are limited to a combined total of four enrollments in KNES 41, 42, 43, 44, and 49. NR

KNES 45
ADVANCED WATER POLO (COED)
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Recommended Preparation: IA 7 or 8 or 14 or 18
Designed for students of advanced ability in water polo who have competed on an intercollegiate water polo team or equivalent. Fundamentals in all aspects of play will be stressed. Recommended for kinesiology majors and those interested in intercollegiate competition. NR

KNES 47
LIFEGUARD TRAINING
3 Units; 3 hours lecture
Transfers: CSU, UC
Limitation: Successfully complete the swim pre-test
Recommended Preparation: KNES 43
Instruction in lifeguarding and lifesaving techniques, cardiopulmonary resuscitation, and basic first aid that will facilitate successful completion of the American National Red Cross Lifeguard Training Certificate, Community First Aid and Safety Certificate and CPR for the Professional Rescuer Certificate. NR

KNES 49
AQUA AEROBICS
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Aerobic dance is a fitness program which combines vigorous aerobic dance combinations with a variety of musical rhythms. Students are limited to a combined total of four enrollments in KNES 41, 42, 43, 44, and 49. NR

KNES 50
AEROBIC DANCE
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Aerobic dance is a fitness program which combines vigorous aerobic dance combinations with a variety of musical rhythms. Students are limited to a combined total of four enrollments in KNES 1, 3, 7, 8, 16, 50, and DANC 77. NR

KNES 51
INTRODUCTION TO KINESIOLOGY
3 Units; 3 hours lecture
Transfers: CSU, UC
An introductory course to the interdisciplinary approach to the study of human movement. An overview of the importance of the sub-disciplines in kinesiology will be discussed along with career opportunities in the areas of teaching, coaching, allied health, and fitness professions. NR

KNES 52
FUNDAMENTALS OF HUMAN MOVEMENT
3 Units; 3 hours lecture
Transfers: CSU, UC
Basic scientific principles of human movement related to various forms of sport and exercise. Fundamentals of anatomy, exercise physiology, biomechanics, and motor control will be presented in class with the goal of improving physical performance. Analyses of movements involved in various activities will be performed using demonstration, videography and student participation. NR

KNES 53
INTRODUCTION TO ATHLETIC TRAINING
3 Units; 3 hours lecture
Transfers: CSU, UC
Introduction to the field of athletic training. Emphasis on prevention and care of injuries, evaluation of injuries, first aid and emergency care, and rehabilitation and reconditioning. NR

KNES 54
PRINCIPLES AND FUNDAMENTALS OF COACHING
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: KNES 53
A comprehensive introduction to the coaching profession. Emphasis is placed on coaching at the high school, elite club level, and includes youth, recreational, and intercollegiate sport programs. The primary goal is to develop and enhance student's knowledge and understanding of concepts and techniques of coaching. NR

KNES 55
PRACTICUM IN ATHLETIC TRAINING – FALL SPORTS
2 Units; 1 hour lecture; 3 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 53
Exposure to sports injuries unique to Fall intercollegiate athletics. Emphasis on recognition, rehabilitation and taping techniques to enable athletes to return to competition. Students will receive hands on experience and will be able to apply various techniques in the treatment of athletic injuries. Students are limited to a combined total of four enrollments in KNES 56 and 59. NR
KNES 57
PEP SQUAD I
1.5 Units; 4.5 hours lab
Transfers: CSU, UC
Limitation: Competitive audition required
Recommended Preparation: Previously competed on high school, community college, or 4-year college cheer or song team
Instruction, practice, and performing at college athletic events. Song and cheer technique development for routines in competition and at games. Choreography and formation development. Includes performing at special events. Students are limited to a combined total of four enrollments in KNES 57 and 58. NR

KNES 58
PEP SQUAD II
1.5 Units; 4.5 hours lab
Transfers: CSU, UC
Limitation: Competitive audition required
Recommended Preparation: KNES 57
Advanced instruction, practice, and performing at college athletic events. Song and cheer technique development for routines in camp competition and at games. Choreography and formation development. Includes performing at special events (formerly KNES 158). Students are limited to a combined total of four enrollments in KNES 57 and 58. NR

KNES 59
PRACTICUM IN ATHLETIC TRAINING – SPRING SPORTS
2 Units; 1 hour lecture; 3 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 56
Exposure to sports injuries unique to Spring intercollegiate athletics. Emphasis on recognition, rehabilitation, and taping techniques to enable athletes to return to competition. Students will receive hands on experience and be able to apply various techniques in the care and prevention of athletic injuries (formerly KNES 159). Students are limited to a combined total of four enrollments in KNES 56 and 59. NR

KNES 60
ANATOMY AND FUNDAMENTALS OF YOGA
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: KNES 28
An introduction to the core principles of Hatha Yoga, study of anatomical structures of body movements, and teaching techniques. Includes experiential application of the asanas (formerly KNES 160). NR

KNES 61
TEACHING OF YOGA
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: KNES 28
Teaching techniques of yoga. Emphasis on variations, adjustments and modifications of basic yoga poses for teaching different levels in various settings. Focus on developing skills for instructing yoga, including verbal cueing, anatomically supportive sequences, and stress management techniques for healthier lifestyles (formerly KNES 161). NR

KNES 62
PHILOSOPHY OF YOGA
3 Units; 3 hours lecture
Transfers: CSU, UC
Introduction to the philosophy of yoga through history, development of the asanas, and traditional texts. Major lineages of yoga and related practices will be covered, with a focus on the integration of these ideas in contemporary teaching (formerly KNES 162). NR

KNES 63
BEGINNING ROCK CLIMBING
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU, UC
Fundamentals of rock climbing with emphasis on the technical principles of climbing, proper equipment, rope use and knot-tying. Course will also cover environmental concerns with a strong emphasis placed on safety. NR

KNES 64
DISTANCE RUNNING
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Techniques in distance running methods, developing aerobic endurance, flexibility, and overall physical fitness. NR

KNES 65
INTRODUCTION TO MAT PILATES
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Fundamentals of mat exercise emphasizing the principles of Joseph Pilates. Exercises to improve abdominal and back strength, flexibility, and postural alignment. Pilates involves integrating the physical and mental aspects of movement to correct imbalances in the body. Enhancement in any movement-based program, such as dance, sports, or exercise programs Proper breathing techniques are emphasized. Also listed as DANC 65, credit given in either area, not both. Students are limited to a combined total of four enrollments in KNES 9, KNES/DANC 38, DANC 63, and KNES/DANC 65. NR

KNES 66
CORE TRAINING
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
2 Units; 1 hour lecture; 3 hours lab
Transfers: CSU, UC
Designed to improve core strength, coordination, balance, quickness, and agility. Emphasis will be placed on medicine ball and bosu ball training for muscle enhancement to maximize performance. Students are limited to a combined total of four enrollments in KNES 2, 10, 31, and 66. NR

KNES 68
WALKING FOR FITNESS
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Walking for fitness is an exercise program designed for students of all ages and skill levels striving for a healthier lifetime activity. Walking lowers the risks of becoming obese, having cardiovascular disease, diabetes, osteoporosis, and high blood pressure. Includes techniques of walking, safety, attire, stretching, nutrition, and monitoring heart rate. Off-campus walks may be required. Students are limited to a combined total of four enrollments in KNES 68, 69, and 86. NR
INTERSCHOLASTIC TEAM

Participation on an interscholastic team or equivalent. Recommended preparation: Participation on an interscholastic team.

KNES 73
ADVANCED SOCCER

1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab

Transfers: CSU, UC

Recommended Preparation:

KNES 72

Advanced fundamentals of individual play such as dribbling, heading, shooting, trapping, passing, defensive tactics, and knowledge of rules. Students are limited to a combined total of four enrollments in KNES 72 and 73. NR

KNES 74
SLOW PITCH SOFTBALL

1 Units; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab

Transfers: CSU, UC

Games of slow pitch softball with fundamentals of offense, defense, basic drills, and team strategy. Students are limited to a combined total of four enrollments in KNES 74 and 83. NR

KNES 75
BEGINNING VOLLEYBALL

1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab

Transfers: CSU, UC

The basic skills and rules of volleyball are introduced. Rules, strategy, skill practice, and class competition are included. Course is orientated to the beginning volleyball student. Students are limited to a combined total of four enrollments in KNES 76, 77, 78, 81, 84, and 85. NR

KNES 76
INTERMEDIATE VOLLEYBALL

1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab

Transfers: CSU, UC

Recommended Preparation:

KNES 76

Designed to give the intermediate student the opportunity to improve the basic skills of volleyball. Rules, and strategy, skill practice in passing, setting, hitting, serving, blocking are included. The student is introduced to basic offense and defense systems of play. Students are limited to a combined total of four enrollments in KNES 76, 77, 78, 81, 84, and 85. NR

KNES 77
ADVANCED VOLLEYBALL

1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab

Transfers: CSU, UC

Recommended Preparation:

KNES 77

Designed to introduce advanced skills necessary for playing competitive volleyball. Skills covered include basic skills, fast offense, court positioning, rolls, dives, and team strategy. Students are limited to a combined total of four enrollments in KNES 76, 77, 78, 81, 84, and 85. NR

KNES 78
ADVANCED BASEBALL

1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab

Transfers: CSU, UC

Recommended Preparation:

KNES 78

Participation on interscholastic team.

KNES 79
ADVANCED FOOTBALL

1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab

Transfers: CSU, UC

Recommended Preparation:

KNES 79

Participation in interscholastic competition.

KNES 80
ADVANCED BASEBALL

1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab

Transfers: CSU, UC

Recommended Preparation:

KNES 80

Participation in interscholastic team.

KNES 81
ADVANCED FOOTBALL

1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab

Transfers: CSU, UC

Recommended Preparation:

KNES 81

Participation in interscholastic team.

KNES 82
ADVANCED SOCCER

1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab

Transfers: CSU, UC

Recommended Preparation:

KNES 82

Designed to introduce advanced skills necessary for playing competitive soccer. Skills covered include basic skills, fast offense, court positioning, rolls, dives, and team strategy. Students are limited to a combined total of four enrollments in KNES 76, 77, 78, 81, 84, and 85. NR
KNES 81
BEGINNING BEACH VOLLEYBALL
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU, UC
Introduction to beach volleyball. Rules, strategy, skill practice, and class competition are included. Students are limited to a combined total of four enrollments in KNES 76, 77, 78, 81, 84, and 85. NR

KNES 82
RECREATIONAL BASEBALL
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Recreational baseball played in a competitive game format. Emphasizes rules, conditioning, offensive and defensive playing skills and teamwork. Students are limited to a combined total of four enrollments in KNES 79 and 82. NR

KNES 83
FAST PITCH SOFTBALL
2 Units; 1 hour lecture; 3 hours lab
Transfers: CSU, UC
Advanced fast-pitch softball played in a competitive game format. Emphasis on rules, conditioning, offensive and defensive playing skills and teamwork. Students are limited to a combined total of four enrollments in KNES 74 and 83. NR

KNES 84
INTERMEDIATE BEACH VOLLEYBALL
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 81
Intermediate level course with progressive skill development in beach volleyball. Competitive games played using offensive and defensive strategies, tactics, and techniques (formerly KNES 184). Students are limited to a combined total of four enrollments in KNES 76, 77, 78, 81, 84, and 85. NR

KNES 85
ADVANCED BEACH VOLLEYBALL
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 81
Advanced beach volleyball techniques and strategies with class competition. A progressive skill building class with emphasis on offensive and defensive strategies (formerly KNES 185). Students are limited to a combined total of four enrollments in KNES 76, 77, 78, 81, 84, and 85. NR

KNES 86
BACKPACKING
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Backpacking involves learning about travel skills and responsible skills in backpacking. Includes 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 in one of the National Parks or wilderness areas (formerly KNES 186). Students are limited to a combined total of four enrollments in KNES 68, 69, and 86. NR

KNES 90
BEGINNING SELF-DEFENSE
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Techniques of basic self-defense recommended for both men and women. Students are limited to a combined total of four enrollments in KNES 90, 91, 93, and 97. NR

KNES 91
INTERMEDIATE SELF-DEFENSE
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 90
Provides intermediate instruction on how to effectively protect oneself by applying various self defense principles while emphasizing physical conditioning and personal confidence (formerly KNES 191). Students are limited to a combined total of four enrollments in KNES 90, 91, 93, and 97. NR

KNES 93
BEGINNING KARATE
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 94
Designed to teach the basic art of Karate. Emphasizes mental and physical conditioning to develop coordination, balance, strength, speed, and power. Instruction in the history, philosophy, and psychology of Karate and the martial arts. Students are limited to a combined total of four enrollments in KNES 90, 91, 93, and 97. NR

KNES 94
BEGINNING AIKIDO
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Aikido is a relatively modern Japanese martial art based upon nonresistance rather than strength. It is a nonaggressive, noncompetitive art based upon a philosophy that stresses harmony with nature and control of body and mind. In Aikido, an attack is never stopped; it is guided in a way that causes the attacker to be thrown by the momentum of his own attack. Aikido develops the individual mentally as well as physically. Physically it produces good posture, physical skill, and quickness of body reflexes. Mentally it develops determination, and responsibility. Students are limited to a combined total of four enrollments in KNES 94, 95, and 96. NR

KNES 95
INTERMEDIATE AIKIDO
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 94
Intermediate skills for an individual to avoid and protect oneself from physical attack. Techniques from Aikido involve combative skills and martial arts emphasis. Philosophical, psychological, and physical study and practice of Aikido (formerly KNES 195). Students are limited to a combined total of four enrollments in KNES 94, 95, and 96. NR
KNES 96
ADVANCED AIKIDO
1 Unit; 0.5 hours lecture; 1.5 hours lab
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 94
Fundamental Aikido principles and refinement of the basic movements of Aikido. Introduction of the concepts of open hand defense against weapons, kneeling techniques, and advanced techniques (e.g., forward break falls, backward rolls, and free style) to prevent injury. Leadership, etiquette, demeanor, dress and a high level of preparation will be emphasized. Students are limited to a combined total of four enrollments in KNES 94, 95, and 96. NR

KNES 97
INTERMEDIATE KARATE
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU, UC
Recommended Preparation: KNES 93
Provides intermediate instruction in traditional Karate, including second-level form, technique, and philosophy (formerly KNES 197). Students are limited to a combined total of four enrollments in KNES 90, 91, 93, and 97. NR

KNES 98
INTRODUCTION TO QIGONG
1 Unit; 0.5 hours lecture; 1.5 hours lab
Transfers: CSU, UC
Qigong is a Chinese exercise form emphasizing posture, movement, breathing patterns, and awareness to liberate and direct life energy (Chi) through meridian pathways in order to promote maintenance and improvement of personal health (formerly KNES 198). Students are limited to a combined total of four enrollments in KNES 29, 37, and 98. NR

KNES 105
MENTAL SKILLS FOR SPORTS PERFORMANCE
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: KNES 94
Focuses on psychological and physical aspects of competition and ways to enhance performance: stress management techniques, visualization, imagery, and goal setting. Explores training methods for the body and mind. Designed for both the weekend athlete and the serious intercollegiate competitor. NR

KNES 107
SURVEY AND ASSESSMENT OF FITNESS
1 Unit; 1 hour lecture
Transfers: CSU
An assessment of the physical condition of the student which includes testing and evaluation of muscular strength and endurance, flexibility, body composition, cardiovascular endurance, skill-related fitness, and aquatic ability. Personality factors will be studied to learn more about stress reduction and lifestyle changes. Information regarding nutrition, weight management, and personal program for lifetime fitness will be presented. Different testing and assessment techniques will be used in this course. NR

KOR 1
ELEMENTARY KOREAN
5 Units; 5 hours lecture
Transfers: CSU, UC
Prerequisite: KOR 1 or two years of high school Korean
Corequisite: KOR 902
Designed to further the fundamentals of communicative competence in daily spoken Korean. Although the focus remains on listening comprehension and speaking, reading and writing skills will be expanded. This course continues the familiarization with customs and cultural achievements begun in the previous semester. NR

KOR 2
ELEMENTARY KOREAN
5 Units; 5 hours lecture
Transfers: CSU, UC
Prerequisite: KOR 1 or two years of high school Korean
Corequisite: KOR 902
Designed to further the fundamentals of communicative competence in daily spoken Korean. Although the focus remains on listening comprehension and speaking, reading and writing skills will be expanded. This course continues the familiarization with customs and cultural achievements begun in the previous semester. NR

KOR 3
INTERMEDIATE KOREAN
5 Units; 5 hours lecture
Transfers: CSU, UC
Prerequisite: KOR 2 or three years of high school Korean
Corequisite: KOR 903
Intermediate level course focuses on fluency in reading, writing, speaking, and listening. Continues the study of Korean cultures. NR

KOR 4
INTERMEDIATE KOREAN
5 Units; 5 hours lecture
Transfers: CSU, UC
Prerequisite: KOR 3 or four years of high school Korean
Corequisite: KOR 904
Emphasizes fluency in speaking, reading, writing, and comprehension of Korean. Includes selected readings and discussions from the basic four genres in Korean and Korean-American literature, culture, and customs. NR

KOR 21
INTRODUCTION TO KOREAN CULTURE
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: College-level reading ability
Designed to provide a brief overview in English of the Korean culture. Areas of study include geography, history, literature, philosophy, religion, and customs of the Korean people. No prior study of the Korean language or culture is required. NR

KOR 901
KOREAN LANGUAGE LAB
0.25 Unit; 1 hour learning center
Corequisite: KOR 1
Requires concurrent enrollment in Korean 1. Enhances and provides practice in skills learned in Korean 1 course. NR
KOR 902
KOREAN LANGUAGE LAB
0.25 Unit; 1 hour learning center
Corequisite: KOR 2
Requires concurrent enrollment in Korean 2. Enhances and provides practice in skills learned in Korean 2 course. NR

KOR 903
KOREAN LANGUAGE LAB
0.25 Unit; 1 hour learning center
Corequisite: KOR 3
Requires concurrent enrollment in Korean 3. Enhances and provides practice in skills learned in Korean 3 language course. NR

KOR 904
KOREAN LANGUAGE LAB
0.25 Unit; 1 hour learning center
Corequisite: KOR 4
Requires concurrent enrollment in Korean 4. Enhances and provides practice in skills learned in Korean 4 language course. NR

Library

LIB 2
ADVANCED INFORMATION COMPETENCY SKILLS: ONLINE SEARCHING
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: LIB 100 or 101
Develops students' research and information competency skills including using research resources (library catalogs, periodical databases, and internet resources) efficiently and effectively. Students will practice making decisions about focusing their research, finding the best sources and using them appropriately, and citing sources. Students will evaluate information for accuracy, credibility, and bias as a central focus of this course. Students who complete the course will be able to apply these principles to fulfill their research goals in other settings. NR

LIB 100
BASIC INFORMATION COMPETENCY SKILLS: LIBRARY RESEARCH
1 Unit; 1 hour lecture
Transfers: CSU
Designed to provide the student with an understanding of print and electronic reference sources available in an academic library, as well as research skills that can be used to find information for papers, presentations, and other class assignments. NR

LIB 101
INTERMEDIATE INFORMATION COMPETENCY SKILLS: SEARCH STRATEGIES
1 Unit; 1 hour lecture
Transfers: CSU
Designed to develop effective search strategies; to locate and critically evaluate information; and to recognize the ethical, legal, and socio-political implications of information. NR

Manufacturing Technology

MFG 200
INTRODUCTION TO RAPID PROTOTYPING TECHNOLOGY
3 Units; 2 hours lecture; 3 hours lab
Recommended Preparation: ARCH/DR 50 and 51
A comprehensive study of rapid prototyping (RP) and Additive Manufacturing (AM). Primary topics will include prototype fundamentals, terminology, machine technology, advantages vs. disadvantages of various technologies, materials and finishing for industry. Features applied laboratory activities in additive manufacturing and post-production finishing or processes on several different rapid prototyping machines. NR

MFG 201
ADVANCED CAD MODEL MAKING AND TOOLING
2 Units; 1 hour lecture; 3 hours lab
Prerequisite: MFG 200
Recommended Preparation: ARCH/DR 50 and 51
A comprehensive study of rapid prototyping (RP), additive manufacturing tooling, and secondary processes. Includes stereo lithography (SLA), fused deposition modeling (FDM), three dimensional printing (3DP), and multi-jet modeling (MJM) machine operations. Students apply advanced materials secondary processes and finishing for RP models, resin casting, vacuum forming, silicone mold making and composites. Activities include finishing on several rapid prototyping machines and secondary processing equipment. Magics RP will be used for tool creation and repair of STL files. NR

MFG 202
INDUSTRIAL MATERIALS
2 Units; 2 hours lecture
Study of metals and non-metals common to industry; mining, physical and chemical properties and uses lattice structure, alloy systems, mechanical tests and characteristics of strength, elasticity, ductility, malleability, heat treatment and surface coatings. NR

MFG 203
INTRODUCTION TO MANUFACTURING PROCESSES
2 Units; 1 hour lecture; 3 hours lab
Study of modern manufacturing techniques. The use of machine tools, testing devices, and inspection methods and the relation of design to production and assembly. NR

MFG 204
3D COMPUTER AIDED DESIGN – SOLIDWORKS
3 Units; 2 hours lecture; 4 hours lab
Recommended Preparation: DR/ARCH 50 and 51
Operation and application of modern computer-aided design using Solidworks. Includes development of 3D computer models from concept to rapid prototyping, component parts, drawings, and assemblies. NR

MFG 205
SILICONE AND URETHANE MOLD MAKING
3 Units; 2 hours lecture; 3 hours lab
A comprehensive study of silicones and urethanes, their similarities and differences and how they are applied during the mold-making process. Topics will include types of silicones, types of urethanes and common molding practices. This hands-on class will require students to create silicone and urethane molds of various types. Includes vents, sprue, parting lines, and keys. Students will create several types of silicone and urethane molds including open face, two-piece, glove, shell, and reinforced mother molds. Industries that use this type of technology include theater, art, rapid manufacturing, jewelry making, part design, and engineering. NR

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MFG 206
RESIN AND FOAM CASTING
3 Units; 2 hours lecture; 3 hours lab
Recommended Preparation: MFG 205
A comprehensive study of resins and foams commonly used in the casting industry, their applications, similarities and differences. Students will learn how to assess the mechanical properties of the casting resins to achieve the best possible casting for a specific project. Students will cast a variety of objects utilizing different materials. Students will use the molds created in the silicone and urethane mold-making class. NR

MFG 207
CNC COMPUTER NUMERICAL CONTROL PROGRAMMING I
3 Units; 2 hours lecture; 4 hours lab
A basic course in numerical control programming using G and M codes, Computer Numerical Control (CNC). Emphasis will be on verification for numerical control machine tools. Students write, debug, edit and create programs required for successful execution on a CNC Mill. NR

MFG 208
CNC COMPUTER NUMERICAL CONTROL PROGRAMMING II
3 Units; 2 hours lecture; 4 hours lab
Recommended Preparation: MFG 207
Concentrates on practical applications of numerical control programming. Special emphasis will be placed on HSMworks and Mastercam. Students will write, debug, edit and execute programs on Computer Numerical Control (CNC) machines. NR

Marine Science

MS 4
SOUTHERN CALIFORNIA COASTAL ECOLOGY
4 Units; 3 hours lecture; 3 hours lab
Transfers: CSU, UC
Emphasizes subtidal, tidal, coastal and estuarine environments and man’s impact on the ecosystem. Field trips may be required to fulfill the objectives of this course. NR

Marine Science Technology

MST 201
MARLINSPIKE SEAMANSHIP
2 Units; 1.5 hours lecture; 1.5 hours lab
Develop self-reliance and seamanship by studying the fundamentals of knotting, splicing, sail repair, deck seamanship, emergency repair, rigging, and decorative knots. Traditional and modern knotting and splicing are included. NR

MST 202
MARINE WEATHER
3 Units; 3 hours lecture
Basic principles of meteorology and certain related aspects of oceanography are presented. Intended for individuals in boating and marine related fields where knowledge of weather and sea conditions is essential for safe operation of all sizes of ocean-going craft. NR

MST 210
COASTAL NAVIGATION
3 Units; 2.5 hours lecture; 1.5 hours lab
In-depth study of chart use, navigation aids, plotting, dead-reckoning, piloting, and electronic navigation. Includes analysis of currents and tides, and position finding using visual and electronic means. NR

MST 211
CELESTIAL NAVIGATION
3 Units; 2.5 hours lecture; 1.5 hours lab
Comprehensive coverage of celestial navigation principles intended to develop practical transoceanic navigational skills. Included will be great circle sailing concepts, sight reduction tables, modern line-of-position techniques, the sextant and chronometer, and at sea navigational cruises. NR

MST 212
SAILING, SEAMANSHIP, AND BOATING SAFETY
3 Units; 2.5 hours lecture; 1.5 hours lab
Techniques of small-boat handling, rules of the road, coastal piloting, safety at sea, and small-craft maintenance. Emphasis is placed on practical experience gained during at-sea laboratory sessions aboard the college fleet of Capri 14’s. Students will complete the California Department of Boating and Waterways Safe Boating Course and obtain a Safe Boating Certificate by the National Association of State Boating Law Administrators. NR
MST 214A
INTERMEDIATE OCEAN SAILING
3 Units; 2.5 hours lecture; 1.5 hours lab
Recommended Preparation: MST 212 or basic sailing skills
Theory and practical seamanship aspects of maneuvering auxiliary sailboats under power and sail during weekly sailing labs and lectures. Includes theory and practice of efficient sailing, anchoring, meeting emergency situations under sail and planned response to local weather conditions. Also introduces maneuvers under power, rules-of-the-road, aids to navigation and other piloting skills. Information and experience gained will qualify student as boat owner or crew member for knowledgeable sailing in local coastal waters. NR

MST 214B
ADVANCED CRUISING UNDER SAIL
3 Units; 2.5 hours lecture; 1.5 hours lab
Recommended Preparation: MST 214A and basic sailing skills
Practical advanced seamanship aspects of cruising auxiliary sailboats to the offshore islands during 2 three-day cruising labs and biweekly lectures. Includes theory and practice of provisioning and preparing the vessel, watchstanding, night sailing, and response to emergency situations and weather conditions. Also covers advanced sailing techniques, reviews docking and mooring, safe overnight anchoring, rules of the road/aids to navigation, and piloting skills. Information and experience gained will qualify student as boat owner or crew member for knowledgeable sailing in offshore and Channel Island waters. NR

MST 215
VESSEL COMMAND AND ORGANIZATION
3 Units; 2.5 hours lecture; 1.5 hours lab
Recommended Preparation: MST 214B
Prepares advanced students for command and organization of crew, provisions, and equipment on board larger auxiliary sailing craft during coastal cruises and among the Channel Islands. Students will supervise preparations for and conduct of actual cruises. Includes supervisions of efficient sailing, safe anchoring, docking and mooring, emergency situations under sail, and planning response to local weather conditions. Also practical application of rules of the road, piloting, and navigational skills. NR

MST 216
USCG MASTER LICENSE AND EXAMINATION PREPARATION COURSE
3 Units; 2.5 hours lecture; 1.5 hours lab
Recommended Preparation: MST 210
Prepares students to pass a United States Coast Guard (USCG) examination to receive a USCG Master or Mate license with a scope of 25-100 gross tons. Students also learn to select the appropriate license grade and scope and how to document the sea time (experience) the USCG requires. NR

MST 218
ELECTRONIC AIDS TO NAVIGATION
3 Units; 2.5 hours lecture; 1.5 hours lab
Recommended Preparation: MST 210
A study of the operation and function of electronic navigational aids as they are used on board a vessel at sea. Includes GPS, autopilot, depth meter, chart plotter, and radar with hands-on laboratory sessions practicing techniques for their operation. Students will be able to integrate the various instruments into a cohesive unit for safe navigation of a seagoing vessel. NR

MST 219
MARINE ECOLOGICAL SURVEY/GIS
3 Units; 2 hours lecture; 3 hours lab
Recommended Preparation: MS 20, GEOG 110
Integrates the collection of marine coastal and local inshore biological, physical, geological, and chemical data with GIS mapping using GPS navigational technology. Students will collect data, evaluate, and process data collected by others, and develop this data spatially into a format compatible with a GIS grid for manipulation, presentation, and reporting. Basic marine ecological concepts will be explored linking GPS navigational data with global information systems cartography. NR

MST 224
INTRODUCTION TO CRUISING THE CHANNEL ISLANDS
1.5 Units; 1 hour lecture; 1.5 hours lab
Through a combination of classroom lectures and a 3-day sailing voyage, students gain knowledge, skill, and experience in ocean cruising under sail. Provides a foundation of seamanship skills and experience navigating and handling a cruising sailboat. Prepares students for more advanced seamanship courses, and provides experience for personal growth. NR

Mathematics

MATH 2
PRE-CALCULUS MATHEMATICS
5 Units; 5 hours lecture
Transfers: CSU, UC
Prerequisite: MATH 124
This is a pre-calculus course including the elements of college algebra. Topics covered include equations and inequalities, relations and functions, polynomials and rational functions, matrices and determinants, sequences and limits, trigonometric functions, the binomial expansion, curve sketching techniques, DeMoivre’s Theorem and complex numbers. NR
Guidelines for Enrollment in Mathematics

Mathematics

Advisory on achieving mathematics competency

Students seeking the Associate degree are required to achieve a minimum score on a standardized examination or complete a mathematics course other than MATH 205 and 253 with a grade of C or better. In order to achieve a grade of C or better without repeating a course for a substandard grade, the following strategies are recommended:

1. Students enrolling in mathematics courses are encouraged to plan enrollments in consecutive semesters, satisfying a prerequisite and enrolling in the next course the following term.

2. Select five unit courses, which are scheduled to meet three times per week, or select three unit courses, which meet twice per week.

3. Plan to spend a minimum of three hours per week in homework per unit of credit which includes completing all assigned homework. Focus on the steps needed to solve problems, not just selecting the right answer to a problem.

4. Notify your instructor by email or telephone if you are having difficulties in the course; schedule office hour appointments with faculty regularly; take advantage of tutoring and other resources that your instructor recommends to you. If you follow these recommendations, it is possible for you to complete the mathematics requirement without repeating a course. Contact the Division of Math, Science and Engineering if you have questions about specific sections of courses.
MATH 3A
ANALYTIC GEOMETRY AND CALCULUS
5 Units; 5 hours lecture
Transfers: CSU, UC
Prerequisite: MATH 2
A first course in differential and integral calculus of a single variable: functions; limits and continuity; techniques and applications of differentiation and integration; Fundamental Theorem of Calculus. NR

MATH 3AH
HONORS ANALYTIC GEOMETRY AND CALCULUS
5 Units; 5 hours lecture
Transfers: CSU, UC
Prerequisite: Combination of MATH 2, passing grade and score of at least 80% on entrance exam administered by the Math Department
A first course in differential and integral calculus of a single variable: functions; limits and continuity; techniques and applications of differentiation and integration; Fundamental Theorem of Calculus. This is the Honors version of Math 3A. It covers the above topics in a more thorough and rigorous manner than 3A and introduces students to proof-writing techniques. Credit may be earned in MATH 3A or 3AH, but not both. NR

MATH 3B
ANALYTIC GEOMETRY AND CALCULUS
5 Units; 5 hours lecture
Transfers: CSU, UC
Prerequisite: MATH 3A
A second course in differential and integral calculus of a single variable: integration; techniques of integration; infinite sequences and series; polar and parametric equations; applications of integration. NR

MATH 3C
ANALYTIC GEOMETRY AND CALCULUS
5 Units; 5 hours lecture
Transfers: CSU, UC
Prerequisite: MATH 3B
Vector valued functions, calculus of functions of more than one variable, partial derivatives, multiple integration, Green's Theorem, Stokes' Theorem, divergence theorem. NR

MATH 7
COLLEGE ALGEBRA
5 Units; 5 hours lecture
Transfers: CSU, UC
Prerequisite: MATH 253
This is a college algebra course designed for the general education student. Topics include: polynomial, exponential, and logarithmic functions, polynomial equations, matrices, determinants, and systems of linear equations, sequences, series, mathematical induction, permutations, combinations, the binomial theorem, and conic sections. NR

MATH 8
COLLEGE ALGEBRA FOR BRIEF CALCULUS
5 Units; 5 hours lecture
Transfers: CSU, UC
Prerequisite: MATH 253

MATH 10
INTRODUCTION TO STATISTICS
3 Units; 3 hours lecture
Transfers: CSU, UC
Prerequisite: MATH 253
Focuses on the development of quantitative and qualitative methods to facilitate decision-making. Topics include descriptive statistics; hypothesis testing, and predictive techniques to facilitate decision-making. Topics include descriptive statistics; probability and sampling distributions; statistical inference; correlation and linear regression; analysis of variance, chi-square and t-tests; and application of technology for statistical analysis including the interpretation of the relevance of the statistical findings. NR

MATH 11
A BRIEF COURSE IN CALCULUS
5 Units; 5 hours lecture
Transfers: CSU, UC
Prerequisite: MATH 8
Presents a study of the techniques of calculus with emphasis placed on the application of these concepts to business and management related problems. The applications of derivatives and integrals of functions including polynomials, rational, exponential and logarithmic functions are studied. NR

MATH 24
ELEMENTARY DIFFERENTIAL EQUATIONS
4 Units; 4 hours lecture
Transfers: CSU, UC
Prerequisite: MATH 3B
An introduction to ordinary differential equations including both quantitative and qualitative methods as well as applications from a variety of disciplines. Introduces the theoretical aspects of differential equations, including establishing when solution(s) exist, and techniques for obtaining solutions, including, series solutions, and singular points, Laplace transforms and linear systems. NR

MATH 26
INTRODUCTION TO LINEAR ALGEBRA
4 Units; 4 hours lecture
Transfers: CSU, UC
Prerequisite: MATH 3B
Develops the techniques and theory needed to solve and classify systems of linear equations. Solution techniques include row operations, Gaussian elimination, and matrix algebra. Investigates the properties of vectors in two and three dimensions, leading to the notion of an abstract vector space. Vector space and matrix theory are presented including topics such as inner products, norms, orthogonality, eigenvalues, eigenspaces, and linear transformations. Selected applications of linear algebra are included. NR

MATH 112
MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS
5 Units; 5 hours lecture
Transfers: CSU
Prerequisite: MATH 253
Focuses on the development of quantitative reasoning skills through in-depth, activity-based explorations of topics in mathematics, including real numbers systems, subsystems, geometric concepts in two- and three-dimensional space, and descriptive statistics. Emphasis is on comprehension and analysis of mathematical concepts and applications of logical reasoning. NR
MATH 124 TRIGONOMETRY  
3 Units; 3 hours lecture  
Transfers: CSU  
Prerequisite: MATH 253  
An introduction to trigonometric functions with emphasis on both the unit circle and the right triangle methodologies.  
NR

MATH 205 MATH FOR THE ASSOCIATE DEGREE  
3 Units; 3 hours lecture  
Prerequisite: MATH 353  
Learn problem solving skills and analytical thinking to investigate areas such as consumer concerns, probability, statistics, and mathematics in the work place. This course meets the minimum general education mathematics requirement and is not a prerequisite for higher level math courses. This course is designed for students not intending to transfer.  
NR

MATH 253 INTERMEDIATE ALGEBRA  
5 Units; 5 hours lecture  
Prerequisite: MATH 353  
Further study of the real-number system, open sentences in one variable, polynomials and factoring, systems of linear equations, functions and sequences, rational numbers and functions, irrational and complex numbers, quadratic equations and functions, exponential and logarithmic functions, quadratic relations and graphs, operations with real numbers, solving linear and quadratic equations, and inequalities in one variable, systems of equations, operations with fractions, functions, relations and graphs, operations with polynomials, special products and factoring (formerly MATH 251).  
NR

MATH 351 PRE-ALGEBRA MATHEMATICS  
3 Units; 3 hours lecture  
Designed for those needing a rapid review of arithmetic before taking a more advanced course. The fundamentals of arithmetic computations with whole numbers and decimals will be discussed very briefly. Computations with fractions and integers will be covered in depth. Problem solving techniques involving ratio, proportion, percent, geometric formulas, and linear algebraic equations will be applied to real world situations.  
NR

MATH 353 BEGINNING ALGEBRA  
5 Units; 5 hours lecture  
Prerequisite: MATH 351  
An introduction to the basic properties of real numbers, numbers and sets, operations with real numbers, solving linear and quadratic equations, and inequalities in one variable, systems of equations, operations with fractions, functions, relations and graphs, operations with polynomials, special products and factoring (formerly MATH 251).  
NR

Medical Assisting

MA 206 INTRODUCTION TO MEDICAL ASSISTING  
3 Units; 3 hours lecture  
Introduces the career of medical assisting. Discusses the history and evolution of health care; health care settings; roles and responsibilities of healthcare professionals and other health care workers; law and ethics for medical assistants; emergency preparation; preparing for the job search, and medical office management fundamentals. Letter Grade Only.  
NR

MA 211A MEDICAL RECEPTION TECHNIQUES  
2.5 Units; 2.5 hours lecture  
Provides development of selected medical front-office skills. Includes the primary reception techniques of oral communication, telephone procedures, and scheduling systems, including referral appointments. Letter grade only.  
NR

MA 211B PHYSICAL-EXAMINATION PROCEDURES  
3 Units; 2 hours lecture; 3 hours lab  
Includes selected medical office clinical skills of physical measurements, recording medical histories and assisting with general physical and specialty examinations. An introduction to radiology and physical therapy is included to assist in patient scheduling and patient instruction. Letter grade only.  
NR

MA 212A MEDICAL OFFICE FINANCIAL PROCEDURES  
2.5 Units; 2.5 hours lecture  
Develops selected medical front office financial skills. Includes medical billing, bookkeeping, banking procedures, medical office equipment and facilities management. Letter grade only.  
NR

MA 212B MEDICAL OFFICE LABORATORY PROCEDURES  
3 Units; 2 hours lecture; 3 hours lab  
Develops selected medical-office laboratory skills. Includes techniques necessary to perform the procedures related to urine and blood testing, including venipuncture. Meets state requirement for medical assistant phlebotomy and skin puncture certificate. Letter grade only.  
NR

MA 213A MEDICAL RECORDS MANAGEMENT  
2.5 Units; 2.5 hours lecture  
Develops selected medical front-office skills including medical forms, patient records, legal aspects of medical records, filing systems, filing procedures and written communication. Letter grade only.  
NR

MA 213B MEDICAL ASEPSIS AND SURGICAL PROCEDURES  
3 Units; 2 hours lecture; 3 hours lab  
Develops selected medical-office clinical skills including medical and surgical asepsis, minor surgical techniques and medical office facilities and equipment management. Letter grade only.  
NR

MA 214B MEDICATION ADMINISTRATION FOR MEDICAL ASSISTANTS  
3 Units; 2 hours lecture; 3 hours lab  
Develops techniques in medication administration. Includes instruction and laboratory practice in pharmacology, pharmacology mathematics, and the procedures involved in oral and injectable medication administration. Meets state requirement for medical assistant injections. Certificate awarded for intramuscular, subcutaneous, and intradermal injections. Letter grade only.  
NR
MA 217A
MEDICAL ASSISTING CLINICAL EXPERIENCE–ADMINISTRATIVE
3 Units; 9 hours lab
Prerequisite: Enrollment in Medical Assistant Program and completion of MA 206, 211A, 212A, 213A, HSC 201, 222, 233, and MA 224A, 226A, 228A, 260
Limitation: (1) Must have current Basic Life Support CPR card for Healthcare Providers; (2) Must have professional liability insurance; (3) Physical examination and health clearance are required
Provides supervised directed practice in a physician’s office, medical clinic, or other allied health facility. This experience will emphasize development of medical front-office skills with consideration for ethical and legal concepts. Assists students in dealing with problems encountered in the work setting. Letter grade only. NR

MA 217B
MEDICAL ASSISTING CLINICAL EXPERIENCE CLINICAL
3 Units; 9 hours lab
Prerequisite: Enrollment in Medical-Assistant Program and completion of MA 206, 211B, 212B, 213B, 214B, 218B, 260, HSC 201, 222, 233.
Limitation: (1) Must have current Basic Life Support CPR card for Healthcare Providers; (2) Must have professional liability insurance; (3) Physical examination and health clearance are required
Provides supervised directed practice in a physician’s office or medical clinic. This experience will emphasize development of clinical back-office skills with consideration for ethical and legal concepts. Assists students in dealing with problems encountered in the work setting. Letter grade only. NR

MA 217C
MEDICAL-ASSISTING CLINICAL EXPERIENCE COMPREHENSIVE
3 Units; 9 hours lab
Limitation: (1) Must have current Basic Life Support CPR card for Healthcare Providers; (2) Must have professional liability insurance; (3) Physical examination and health clearance are required
Provides supervised directed practice in a physician’s office or medical clinic. This experience will emphasize development of medical front-office and clinical back-office skills with consideration for ethical and legal concepts. Scheduled class sessions will assist the student in dealing with problems encountered in the work-experience setting. Letter grade only. NR

MA 218B
ELECTROCARDIOGRAPHY FOR THE MEDICAL ASSISTANT
2 Units; 1 hour lecture; 2 hours lab
Provides basic instruction in electrocardiography theory and technique for the clinical medical assistant or electrocardiographer. Includes a review of the structure and function of the heart, the electrocardiograph and its function, and the correct technique for performing an electrocardiogram with student “hands-on” involvement. Letter grade only. NR

MA 224A
BASIC MEDICAL INSURANCE
3 Units; 3 hours lecture
Introduces students to basics of medical billing. Covers the various insurance plans, and various payment methods for medical office and professional/ambulatory care billing. Covers terminology related to reimbursement and completion of claim forms. Letter grade only (formerly INSR 224A). NR

MA 226A
FUNDAMENTALS OF CPT/AMBULATORY CODING FOR MEDICAL ASSISTANTS
3 Units; 3 hours lecture
Recommended Preparation: HSC 201
Provides instruction and practice in basic CPT and other ambulatory procedural coding for physician and other outpatient/ambulatory services. Covers format, conventions, guidelines, and use of CPT/HCPCS. Letter grade only (formerly INSR 226A). NR

MA 228A
FUNDAMENTALS OF ICD CODING
3 Units; 3 hours lecture
Recommended Preparation: HSC 201
Designed for students to understand the format and use of the ICD. Covers general and chapter-specific guidelines for coding for medical office and professional/ambulatory care settings. Students will also gain knowledge about the symbols and conventions of the ICD, as well as ethics in coding. Letter grade only (formerly INSR 228A). NR

MA 260
COMPUTER APPLICATIONS/EHR IN HEALTH CARE
3 Units; 2.5 hours lecture; 1.5 hours lab
Provides orientation to office-based computer applications including electronic health records (EHR), scheduling electronic appointments, electronic spreadsheets, health information systems and billing. Focuses on electronic health records and medical billing. Letter grade only (formerly INSR 260). NR
Medical Laboratory Technology

MLT 210
INTRODUCTION TO THE CLINICAL LABORATORY PROFESSION
1 Unit; 1 hour lecture
Introduces the student to the functions and duties of a Medical Laboratory Technician (MLT) and compares and contrasts these duties to the Clinical Laboratory Scientist (CLS). The student will be introduced to clinical laboratory safety issues, regulatory agencies, infection control policies, and professional responsibilities relevant to other departments of health care. The student will study medical terminology, patient’s bill of rights, and the professional standards of the medical laboratory technician, proper phlebotomy technique, specimen processing, computer skills and data management systems within the clinical laboratory. NR

MLT 211
BASIC LABORATORY PROCEDURES
1 Unit; 1 hour lecture
Recommended Preparation: MATH 205 or 253
Designed to introduce the student to basic clinical laboratory procedures common to all diagnostic-related tasks. Emphasis will be placed on proper use of manual pipettes and semi-automated micropipetors, preparation of serial dilutions, making buffers and reagents from stock solutions, calibration and use of balances, sterile techniques, centrifuges and spectrophotometers. Introduction to basic laboratory math and statistics. NR

MLT 230
CLINICAL CHEMISTRY
5 Units; 5 hours lecture; 1 hour lab
Prerequisite: Official admission to the MLT program
Includes general laboratory principles and specific basic instrumentation methodologies used in the clinical lab. Introduces pre-analytical variables, electrolytes and trace elements and their relationship to acid base balance, and enzyme kinetics. Studies the clinical relevance of vitamin assays. Examines the correlation between test results and disease states for liver, kidney, and pancreatic functions assays. Introduces students to body fluid assays and correlation with disease states. Includes review of QA and QC. NR

MLT 232
CLINICAL MICROBIOLOGY
3 Units; 3 hours lecture
Prerequisite: MLT 210 & Official Admission into the MLT Program
Recommended Preparation: MLT 211
Students learn how to identify microorganisms of medical microbiology with emphasis on the characteristics of clinically significant microorganisms and their biochemical profile, media for isolation, and identification methods for selected pathogens. Introduces identification methods, theories, and techniques used in basic bacteriology, parasitology, and mycology. Emphasizes routine identification. NR

MLT 235
CLINICAL URINALYSIS
1 Unit; 1 hour lecture
Prerequisite: MLT 211 & Official Admission into the MLT Program
Recommended Preparation: MLT 210
Includes various properties and constituents of urine. Emphasis is placed on interpretation of theory and methodology of qualitative and quantitative clinical analysis of urine. The student will be able to accurately compare and contrast the methods of analysis to normal function of the kidney, and examine urine physically, chemically, and microscopically. Requires comparison of clinical values as related to the physiology of the urinary system in health and disease. NR

MLT 236
CLINICAL HEMATOLOGY AND COAGULATION
3 Units; 3 hours lecture; 1 hour lab
Prerequisite: Official admission to the MLT program
The study of hematologic disorders, normal and abnormal cell development, morphology, symptoms of hematologic disease and related testing. Presents an overview of the hemostatic process, diseases, and laboratory evaluations. Includes normal values and abnormal results, specimen processing and quality control. NR

MLT 242
CLINICAL CHEMISTRY PRACTICUM
4 Units; 12.5 hours lab
Prerequisite: MLT 230
Limitation: Completion of all required didactic courses and acceptance into a clinical site.
Provides entry-level clinical laboratory practice and experience in the department of general and special chemistry. Emphasis is placed on technique, accuracy, and precision. Different instrumentation will be introduced as well as bench/manual methods. Competence will be evaluated based on final clinical evaluations. NR

MLT 243
CLINICAL IMMUNOLOGY/IMMUNOHEMATOLOGY
3 Units; 3 hours lecture
Prerequisite: MLT 236 & Official Admission into the MLT Program
Introduces the basic principles of antigen and antibody reactions and serological procedures. Includes accurate measurement strategies. NR

MLT 244
CLINICAL HEMATOLOGY, COAGULATION, AND URINALYSIS PRACTICUM
4 Units; 12.5 hours lab
Prerequisite: MLT 236
Limitation: Completion of all required didactic courses and acceptance into a clinical site.
Provides entry-level clinical laboratory practice/experience in the department of hematopathy, coagulation, and urinalysis. Emphasis is placed on technique, accuracy, and precision. Different instrumentation will be introduced as well as tech/manual methods. Competence will be evaluated based on final clinical evaluations. NR
MLT 252
CLINICAL MICROBIOLOGY PRACTICUM
4 Units; 12.5 hours lab
Prerequisite: MLT 232
Limitation: Completion of all required didactic courses and acceptance into a clinical site.
Provides entry-level clinical laboratory practice and experience in the department of microbiology. Emphasis is placed on technique, accuracy, and precision. Different instrumentation will be introduced as well as numerous bench/manual techniques. Competence will be evaluated based on final clinical evaluations. NR

MLT 253
CLINICAL IMMUNOLOGY/IMMUNOHematology PRACTICUM
3 Units; 10 hours lab
Prerequisite: MLT 243 & MLT 244 or MLT 242 or MLT 252
Limitation: Completion of all required didactic courses and acceptance into a clinical site.
Provides entry-level clinical laboratory practice and experience in the department of immunology/serology, and immunohematology. Emphasis is placed on technique, accuracy, and precision. Different instrumentation will be introduced as well as bench/manual methods. Competence will be evaluated based on final clinical evaluations. NR

Music

MUS 1
THE BASICS OF MUSIC
3 Units; 3 hours lecture
Transfers: CSU, UC
Emphasizing the principles and procedures of music: rhythm and pitch notation, scales (major, minor, modal), key signatures, intervals, chord structures, sight-singing, dictation, and keyboard. NR

MUS 10
HARMONY I
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: MUS 1
An intensive study of diatonic harmony in major and minor modes; roman numeral analysis; part-writing using root position triads; harmonization of a given melody; non-harmonic tones; strophic, binary, and ternary forms. NR

MUS 11
HARMONY II
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: MUS 10
An intensive study of advanced diatonic and chromatic harmony in major and minor modes; secondary chords; modulation; part-writing using triads and 7th chords; variation, rondo, and sonata forms. NR

MUS 12
HARMONY III
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: MUS 11
A study of chromatic harmony as practiced in the 19th century. Includes 9th, 11th and 13th chords, altered chords, mode mixture, and augmented 6th and Neapolitan chords as well as 19th century formal models. NR

MUS 13
JAZZ COMPOSITION AND ARRANGING
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: MUS 11
A study of the traditional and popular use of intervals, modes, rhythms, meters, notation of scales, structure notation, and use of traditional and popular chords and progressions. Emphasis will be placed on the traditional and popular concepts of melodic writing for popular and jazz music. Students are limited to a combined total of four enrollments in MUS 14, 15, and 119. NR

MUS 15
MUSIC COMPOSITION
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: MUS 1
The emphasis in this course is on original composition. Study of instrumentation and orchestration will also be included, as well analysis of applicable literature. Students are limited to a combined total of four enrollments in MUS 14, 15, and 119. NR

MUS 16
MUSIC APPRECIATION
3 Units; 3 hours lecture
Transfers: CSU, UC
A survey of musical forms and important composers and their works from the Middle Ages through the 21st century. Stylistic concepts for each period will be studied and demonstrated. Students are limited to a combined total of four enrollments in MUS 10, 21, and 24. NR

MUS 17
INTRODUCTION TO WORLD MUSIC
3 Units; 3 hours lecture
Transfers: CSU, UC
An intensive study of advanced diatonic and chromatic harmony in major and minor modes; secondary chords; modulation; part-writing using triads and 7th chords; variation, rondo, and sonata forms. NR

MUS 18
HISTORY OF JAZZ
3 Units; 3 hours lecture
Transfers: CSU, UC
A study of a cross-section of 20th and 21st music and musicians. A study of the music, musical styles, and major composers of classic, jazz, and film music. The stylistic concepts used by such composers as Stravinsky, Bartok, Schoenberg will be examined and demonstrated. The musical life and contributions of each composer will be studied. Students are limited to a combined total of four enrollments in MUS 20, 23, and 24. NR

MUS 19
HISTORY OF AMERICAN MUSIC
3 Units; 3 hours lecture
Transfers: CSU, UC
An intensive study of advanced diatonic and chromatic harmony in major and minor modes; secondary chords; modulation; part-writing using triads and 7th chords; variation, rondo, and sonata forms. NR

MUS 20
MUSIC SINCE 1900
3 Units; 3 hours lecture
Transfers: CSU, UC
A survey of musical forms and important composers and their works from the Middle Ages through the 21st century. Stylistic concepts for each period will be studied and demonstrated. Students are limited to a combined total of four enrollments in MUS 10, 21, and 24. NR

MUS 21
HISTORY OF JAZZ
3 Units; 3 hours lecture
Transfers: CSU, UC
A survey of musical forms and important composers and their works from the Middle Ages through the 21st century. Stylistic concepts for each period will be studied and demonstrated. Students are limited to a combined total of four enrollments in MUS 10, 21, and 24. NR

MUS 22
HISTORY OF AMERICAN MUSIC
3 Units; 3 hours lecture
Transfers: CSU, UC
An intensive study of advanced diatonic and chromatic harmony in major and minor modes; secondary chords; modulation; part-writing using triads and 7th chords; variation, rondo, and sonata forms. NR
MUS 28
HISTORY OF ROCK
3 Units; 3 hours lecture
Transfers: CSU, UC
A study of the elements of rock music tracing the development and evolution of its styles and structures, including sociological and political aspects, from rock’s beginning to the present time. Students are limited to a combined total of four enrollments in MUS 27 and 28. NR

MUS 31
CHAMBER CHOIR
2 Units; 1 hour lecture; 3 hours lab
Transfers: CSU, UC
Limitation: Audition with college staff
This ensemble will perform major works for chamber choir primarily from, but not limited to, the 17th and early 18th centuries. Emphasis is placed on recent research in authentic performance practices. Different literature will be performed each semester. Students are limited to a combined total of four enrollments in MUS 31, 32, 33, 232, 233, and 234. R-E-2

MUS 32
SINGING SOCIETY
2 Units; 1 hour lecture; 3 hours lab
Transfers: CSU, UC
Limitation: Audition with college staff
Choral/orchestral performance of the oratorio repertoire of the late 18th and 19th centuries is offered. The repertoire includes oratorios of Handel, Haydn, Mendelssohn and other composers of the period. Rehearsals include study of historical perspective of the oratorio society as a social phenomenon of the Industrial Revolution, and the changing role of the composer, conductor and music critic in the 19th century society. Students are limited to a combined total of four enrollments in MUS 31, 32, 33, 232, 233, and 234. NR

MUS 33
MODERN MASTERWORKS: CHORALE
2 Units; 1 hour lecture; 3 hours lab
Transfers: CSU, UC
Limitation: Audition with college staff
Students will perform choral repertoire of the 20th century, with special emphasis on larger choral/orchestral works by English and American composers in contemporary society, commissioning and performance of new works, and study of the 20th century harmonic and textural vocabulary as seen in this repertoire. Students are limited to a combined total of four enrollments in MUS 33, 34, and 234. NR

MUS 34
EARLY MUSIC ENSEMBLE
2 Units; 1 hour lecture; 3 hours lab
Transfers: CSU, UC
Limitation: Audition with college staff
Students will perform sacred and secular repertoire suitable for chamber ensemble from the 15th to 17th centuries. Unaccompanied works and music with instrumental accompaniment are included. Emphasizes a cultivation of skills needed to sing music from a variety styles within the Early, Renaissance, and through the pre-Baroque era. Students are limited to a combined total of four enrollments in MUS 34 and 35. NR

MUS 35
CONTEMPORARY CHOIR
2 Units; 1 hour lecture; 3 hours lab
Transfers: CSU, UC
Limitation: Audition with college staff
Study and performance of sacred and secular repertoire suitable for vocal chamber ensemble of 20th and 21st century composers. Unaccompanied works and music with instruments or keyboard accompaniment are included. Singers will develop skills required for performance of both traditional and avant-garde choral composition. Students are limited to a combined total of four enrollments in MUS 34 and 35. R-E-3

MUS 39
COMMERCIAL MUSIC ENSEMBLE
2 Units; 2 hours lecture; 1 hour lab
Transfers: CSU, UC
Limitation: Audition with college staff
Rehearsal and performance of commercial songs and material including but not limited to the blues, classic rock ’n’ roll, folk rock standards, hip-hop, current popular music, electronic music and original material. Open to instrumentalists, midi instruments/controllers, vocalists, emcees and DJs. Public performance required (formerly MUS 122). Students are limited to a combined total of four enrollments in MUS 39, 32, 33, 232, 233, and 234.

MUS 41
SYMPHONIC WIND ENSEMBLE
2 Units; 1 hour lecture; 3 hours lab
Transfers: CSU, UC
Recommended Preparation: Previous instrumental training and demonstrated proficiency
An elite concert band, playing the finest traditional and contemporary band literature available. Emphasis is on a high degree of individual musicianship and fine ensemble blending. Formal concert to be given with outstanding soloist and/or conductors. This course is offered as open-entry/open-exit. R-E-3

MUS 42
SYMPHONIC ORCHESTRA
2 Units; 1 hour lecture; 3 hours lab
Transfers: CSU, UC
Recommended Preparation: Previous instrumental training and demonstrated proficiency
An elite concert band, playing the finest traditional and contemporary band literature available. Emphasis is on a high degree of individual musicianship and fine ensemble blending. Formal concert to be given with outstanding soloist and/or conductors. This course is offered as open-entry/open-exit. R-E-3

MUS 43
STRING ORCHESTRA
2 Units; 1 hour lecture; 3 hours lab
Transfers: CSU, UC
Recommended Preparation: Previous experience in an instrumental group
Study of string literature from early music, baroque, classical, romantic, and 20th and 21st century eras of music. Designed to read, study, and perform orchestral literature written especially for strings. Offered as open-entry/open-exit. NR
MUS 46
JAZZ IMPROVISATION
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Recommended Preparation: MUS 10 or placement audition
Study of jazz theory, transcription, awareness of historically important jazz improvisers, and internationalization of jazz rhythm. Develop technical command of instrument. Foster the ability to create. Students are limited to a combined total of four enrollments in MUS 46, 240, and 297. NR

MUS 47
SADDLEBACK COLLEGE BIG BAND
2 Units; 1 hour lecture; 3 hours lab
Transfers: CSU, UC
Limitation: Enrollment by audition only
Performance of big band music by members of the community above high-school sophomore level. Very high standards of individual and ensemble performance are expected. The student can expect to be exposed to the very best and most demanding of the literature available in the jazz idiom. Members of this band will perform several times during the term at events both on and off campus. Offered as open-entry/open-exit. Students are limited to a combined total of four enrollments in MUS 47, 246, and 247. R-E-3

MUS 50
APPLIED MUSIC
1 Unit; 3 hours lab
Transfers: CSU, UC
Limitation: College audition and concurrent enrollment in performance ensemble
Individual instruction at the advanced level in voice, piano, or instrumental music. Designed to develop technical competence, stylistic interpretation, and performance practice. Students are limited to a combined total of four enrollments in MUS 50. R-E-3

MUS 54A
BEGINNING PIANO I
2 Units; 2 hours lecture; 1 hour lab
Transfers: CSU, UC
Prerequisite: MUS 54A or demonstrated proficiency
A first level introductory course in piano, with instruction in music-reading, repertoire, piano technique, tone production, sight-reading, keyboard harmony, and performance styles for music and non-music majors at a first-year level. Students are limited to a combined total of four enrollments in MUS 54A, 54B, 55A, 55B, and 56. NR

MUS 54B
BEGINNING PIANO II
2 Units; 2 hours lecture; 1 hour lab
Transfers: CSU, UC
Prerequisite: MUS 54A
A second level introductory course in piano, with instruction in music reading, repertoire, piano technique, tone production, sight-reading, keyboard harmony, and performance styles for music and non-music majors at a first-year level. Students are limited to a combined total of four enrollments in MUS 54A, 54B, 55A, 55B, and 56. NR

MUS 55A
INTERMEDIATE PIANO I
2 Units; 2 hours lecture; 1 hour lab
Transfers: CSU, UC
Prerequisite: MUS 54B
Secondary Level Piano Course with instruction in selected major and minor scales, piano technique, tone production, sight-reading, building of repertoire and performance styles. Includes technical and interpretive development of piano performance ability at a third semester level. Keyboard harmony will be emphasized. Students are limited to a combined total of four enrollments in MUS 54A, 54B, 55A, 55B, and 56. NR

MUS 55B
INTERMEDIATE PIANO II
2 Units; 2 hours lecture; 1 hour lab
Transfers: CSU, UC
Prerequisite: MUS 55A
Secondary Level Piano Course with continuing instruction on all major and minor scales, piano technique, first and second chord inversions, tone production, sight-reading, building of repertoire and performance styles, and heightened emphasis on ensemble performance. Includes technical and interpretive development of piano performance ability at a fourth semester level. Keyboard harmony will be emphasized. Students are limited to a combined total of four enrollments in MUS 54A, 54B, 55A, 55B, and 56. NR

MUS 56
ADVANCED PIANO
2.5 Units; 2 hours lecture; 2 hours lab
Transfers: CSU, UC
Recommended Preparation: MUS 55B or four years of piano study
This course is of a "Master Class" or a workshop character, and for the student interested in furthering his or her understanding of musical styles through careful study and performance of Baroque, Classic, Romantic and Contemporary piano literature. Works and performance are thoroughly analyzed and discussed as to style, interpretation and technical problems. Students are limited to a combined total of four enrollments in MUS 54A, 54B, 55A, 55B, and 56. NR

MUS 58
PIANO REPERTOIRE AND PERFORMANCE PROCEDURES
2.5 Units; 2 hours lecture; 2 hours lab
Transfers: CSU, UC
Recommended Preparation: MUS 55A or 8 or demonstrated proficiency
The study of important piano solo literature from Bach to contemporary with emphasis on technique and procedures in solo-performance preparation. Students are limited to a combined total of four enrollments in MUS 58, 78, 181, 253, 255, and 257. NR
MUS 60
BEGINNING CLASSICAL GUITAR
1 Unit; 1 hour lecture; 1 hour lab
Transfers: CSU, UC
Emphasizes solo finger-style guitar playing on acoustic nylon-string guitar. Beginning-level music reading. No previous experience necessary. Students are limited to a combined total of four enrollments in MUS 60, 61, 62, 173, and 260. NR

MUS 61
INTERMEDIATE CLASSICAL GUITAR
1 Unit; 1 hour lecture; 1 hour lab
Transfers: CSU, UC
Recommended Preparation: MUS 60
Solo and ensemble fingerstyle playing on acoustic nylon-string guitar. Intermediate level music reading. Choral accompaniment. Students are limited to a combined total of four enrollments in MUS 60, 61, 62, 173, and 260. NR

MUS 62
ADVANCED CLASSICAL GUITAR
2 Units; 1 hour lecture; 3 hours lab
Transfers: CSU, UC
Recommended Preparation: MUS 60
Solo and ensemble fingerstyle playing on acoustic nylon-string guitar. Advanced-level music reading and techniques. Advanced accompaniment techniques. Building repertoire and performance skills. Students are limited to a combined total of four enrollments in MUS 60, 61, 62, 173, and 260. NR

MUS 63
ENSEMBLE TECHNIQUES FOR 21ST CENTURY
2 Units; 1 hour lecture; 3 hours lab
Transfers: CSU, UC
Limitation: Audition with college staff
Designed to aid the individual in developing the ability to perform in small instrumental ensemble groups, studying the music of late 20th and early 21st centuries. Pianists, string, woodwind, and guitar players will study standard repertoire as well as newer compositions. Students are limited to a combined total of four enrollments in MUS 63, 66, and 266. NR

MUS 64
PIANO ENSEMBLE
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Recommended Preparation: MUS 55A or demonstrated proficiency
The ensemble study of the literature of duo-piano including four and eight hands, both original and transcribed. Particular emphasis will be given to style, interpretation, techniques of ensemble playing and sight-reading. Students are limited to a combined total of four enrollments in MUS 64 and 65. NR

MUS 65
PIANO ACCOMPANYING
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Recommended Preparation: MUS 55A or two years of piano study
Studies techniques of instrumental and vocal accompaniment through actual accompanying experience. Particular emphasis will be given to style, interpretation and techniques of accompanying and sight-reading. Students are limited to a combined total of four enrollments in MUS 64 and 65. R-E-3

MUS 66
CHAMBER MUSIC
2 Units; 1 hour lecture; 3 hours lab
Transfers: CSU, UC
Recommended Preparation: Two years of instrumental training
Chamber music is designed for pianists, string, woodwind and brass players to study chamber-music works from the standard repertoire. Emphasis will be given to student performances in concerts and recitals. Students are limited to a combined total of four enrollments in MUS 63, 66, and 266. NR

MUS 67
STRING LITERATURE
2 Units; 1 hour lecture; 3 hours lab
Transfers: CSU, UC
Recommended Preparation: Two years of instrumental training
Designed to analyze and perform traditional and contemporary string literature from 18th century to present day. NR

MUS 68
KEYBOARD LITERATURE/INTERPRETATION
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: MUS 55A or demonstrated keyboard proficiency
Keyboard Literature of Baroque and Classical Periods, their performance traditions and interpretation. Expands knowledge of keyboard music history and performance. Great performers of the past and their legacy. Students are limited to a combined total of four enrollments in MUS 58, 78, 181, 253, 255, and 257. Formerly MUS 180. NR

MUS 70
BEGINNING VOICE
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Emphasizes vocal techniques, including tone production, breath control, and pronunciation, as well as music literature. Students are limited to a combined total of four enrollments in MUS 80, 81, and 82. NR

MUS 71
INTERMEDIATE VOICE
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Recommended Preparation: MUS 80
Techniques of singing without the aid of a microphone. Application of this study in vocalization and repertoire. Students are limited to a combined total of four enrollments in MUS 80, 81, and 82. NR

MUS 72
BEGINNING VOCAL ENSEMBLE
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Recommended Preparation: MUS 80
Chamber music is designed for pianists, string, woodwind and brass players to study chamber-music works from the standard repertoire. Emphasis will be given to student performances in concerts and recitals. Students are limited to a combined total of four enrollments in MUS 63, 66, and 266. NR

MUS 73
INTERMEDIATE VOCAL ENSEMBLE
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Recommended Preparation: MUS 80
Techniques of singing without the aid of a microphone. Application of this study in vocalization and repertoire. Students are limited to a combined total of four enrollments in MUS 80, 81, and 82. NR

MUS 74
ADVANCED VOCAL ENSEMBLE
2 Units; 1 hour lecture; 3 hours lab
Transfers: CSU, UC
Recommended Preparation: Two years of instrumental training
Chamber music is designed for pianists, string, woodwind and brass players to study chamber-music works from the standard repertoire. Emphasis will be given to student performances in concerts and recitals. Students are limited to a combined total of four enrollments in MUS 63, 66, and 266. NR

MUS 75
VOCAL REPERTOIRE AND PERFORMANCE PROCEDURES
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU, UC
Recommended Preparation: MUS 81
A survey of concert literature available for various voice categories. Emphasis will be placed on the instruction and practice of presenting material from operas, concerts and musicals. Students are limited to a combined total of four enrollments in MUS 80, 81, and 82. NR

MUS 76
ADVANCED VOCAL REPERTOIRE AND PERFORMANCE PROCEDURES
2 Units; 1 hour lecture; 3 hours lab
Transfers: CSU, UC
Recommended Preparation: MUS 81
A survey of concert literature available for various voice categories. Emphasis will be placed on the instruction and practice of presenting material from operas, concerts and musicals. Students are limited to a combined total of four enrollments in MUS 80, 81, and 82. NR
MUS 86
INTRODUCTION TO
HARPSCICHORD TECHNIQUE
AND LITERATURE
2 Units; 2 hours lecture; 1 hour
lab
Transfers: CSU, UC
Recommended Preparation: MUS
55A or demonstrated keyboard
proficiency
Introductory Study of Harpsichord, its
history, performance practices,
technique and repertory. Masterclass
format. Students will learn
Renaissance and Early Baroque pieces
written for harpsichord, as well as
basic ornaments, dynamics and
articulation on the instrument.
Emphasis on short pieces from English
Virginal and Italian Cembalo schools
of the 17th century. Students are
limited to a combined total of four
enrollments in MUS 86, 87, 88, and
89. Formerly MUS 106. NR

MUS 87
HARPSCICHORD LITERATURE
AND TECHNIQUE II – LATE
BEGINNER
2 Units; 2 hours lecture; 1 hour
lab
Transfers: CSU, UC
Recommended Preparation: MUS
86 or demonstrated
harpsichord proficiency
Second semester study of
Harpsichord, its history, performance
practices, technique and repertory.
Masterclass format. Students will
review Renaissance and early Baroque
pieces written for harpsichord, and
will study mid-Baroque (up to 1680s)
pieces and their ornaments, fingering,
dynamics and articulation on the
instrument. Emphasis on short pieces
from German and French harpsichord
schools of the mid-late 17th century.
Students are limited to a combined
total of four enrollments in MUS 86,
87, 88, and 89. Formerly MUS 107. NR

MUS 88
HARPSCICHORD LITERATURE
AND TECHNIQUE III – EARLY
INTERMEDIATE
2 Units; 2 hours lecture; 1 hour
lab
Transfers: CSU, UC
Recommended Preparation: MUS
87 or demonstrated
harpsichord proficiency
Third semester study of Harpsichord,
its history, performance practices,
technique and repertory. Masterclass
format. Students will learn high
Baroque and Galant styles pieces
written for harpsichord, as well as
ornaments, fingering, dynamics and
articulation on the instrument.
Emphasis on pieces from Spanish,
Italian and German harpsichord
schools of the 18th century (High
Baroque). Students are limited to a
combined total of four enrollments in
MUS 86, 87, 88, and 89. Formerly
MUS 108. NR

MUS 89
HARPSCICHORD LITERATURE
AND TECHNIQUE IV – LATE
INTERMEDIATE
2 Units; 2 hours lecture; 1 hour
lab
Transfers: CSU, UC
Recommended Preparation: MUS
88 or demonstrated
harpsichord proficiency
Fourth semester study of Harpsichord,
its history, performance practices,
technique and repertory. Masterclass
format. Students will learn pieces from
Renaissance, Baroque, Galant, Early
Classical and Contemporary styles
written for harpsichord, as well as
ornaments, fingering, dynamics tempi,
varied repeats and articulation on the
instrument. Emphasis on pieces from
French Clavecin school of the 18th
century (High Baroque), early
Classical/Galant and Contemporary
styles. Students are limited to a
combined total of four enrollments in
MUS 86, 87, 88, and 89. Formerly
MUS 109. NR

MUS 92
MUSICIANSHIP I
1 Unit; 3 hours lab
Transfers: CSU, UC
Recommended Preparation: MUS
1
Sight-reading, ear training, and
dictation of diatonic melodies and
harmonies; rhythmic reading and
dictation. Students are limited to a
combined total of four enrollments in
MUS 92, 93, and 94. NR

MUS 93
MUSICIANSHIP II
1 Unit; 3 hours lab
Transfers: CSU, UC
Recommended Preparation: MUS
92
Sight-reading, ear training, and
dictation of advanced diatonic
melodies and harmonies; rhythmic
reading and dictation. Required of all
music majors. Students are limited to
a combined total of four enrollments in
MUS 92, 93, and 94. NR

MUS 94
MUSICIANSHIP III
1 Unit; 3 hours lab
Transfers: CSU, UC
Recommended Preparation: MUS
93
Includes advanced sight-reading, ear
training, and dictation of chromatic
melodies and harmonies; rhythmic
reading and dictation; keyboard
harmony. Students are limited to a
combined total of four enrollments in
MUS 92, 93, and 94. NR

MUS 96
INTRODUCTION TO ORGAN
TECHNIQUE AND LITERATURE
CLASS
2 Units; 2 hours lecture; 1 hour
lab
Transfers: CSU, UC
Recommended Preparation: MUS
55A or demonstrated keyboard
proficiency
Introduction to organ manual and
pedal techniques, basic registration,
hymn playing and organ literature.
Performance of simple compositions,
accompaniments and hymn tunes.
Baroque organ style interpretation.
Students are limited to a combined
total of four enrollments in MUS 96,
97, 98, and 99. Formerly MUS 102. NR

MUS 97
ORGAN TECHNIQUE AND
LITERATURE CLASS LATE
BEGINNING
2 Units; 2 hours lecture; 1 hour
lab
Transfers: CSU, UC
Recommended Preparation: MUS
96
Sight-reading, ear training, and
dictation of diatonic melodies and
harmonies; rhythmic reading and
dictation. Students are limited to a
combined total of four enrollments in
MUS 96, 97, 98, and 99. Formerly
MUS 103. NR
MUS 98
ORGAN TECHNIQUE AND LITERATURE CLASS
INTERMEDIATE (A), EARLY
2 Units; 2 hours lecture; 1 hour lab
Transfers: CSU, UC
Recommended Preparation: MUS 97 or demonstrated organ proficiency.
Instruction in keyboard and pedal techniques, registration, articulation, hymns and organ literature. Performance of organ compositions with pedals, accompaniments and hymn tunes. Romantic Organ Music Interpretation. Performance Practice. Basic Concert Procedures. Students are limited to a combined total of four enrollments in MUS 96, 97, 98, and 99. Formerly MUS 104. NR

MUS 118
DIGITAL MULTI-TRACK MUSIC RECORDING
2.5 Units; 2 hours lecture; 2 hours lab
Transfers: CSU
Initial exposure to sound-recording principles, techniques, and equipment. Emphasizes multi-track music recording process, editing and mixing. Students will receive hands-on experience with professional 24 track digital recording equipment while the class participates in a variety of recording projects. Students are limited to a combined total of four enrollments in MUS 118, 130, 131, and 132. NR

MUS 119
ADVANCED MUSIC COMPOSITION
3 Units; 3 hours lecture
Transfers: CSU
Prerequisite: MUS 15
Composition of large scale chamber works using intermediate/advanced level 20th and 21st century compositional techniques. Covers writing for combinations of standard orchestral instruments and the development of individual compositional style. Students are limited to a combined total of four enrollments in MUS 14, 15, and 119. NR

MUS 120
INTRODUCTION TO THE MUSIC INDUSTRY
3 Units; 3 hours lecture
Transfers: CSU
A survey of the music industry with a focus on skill, experience and education needed for careers within the industry. Other topics covered include music publishing, performing rights societies, music licensing, digital distribution, record companies and artist management. NR

MUS 124
COMPUTER ASSISTED MUSIC NOTATION
1 Unit; 1 hour lecture; 1 hour lab
Transfers: CSU
Prerequisite: MUS 1
Techniques and principles of computer music notation. Topics include the Finale interface, basic notation techniques, expressive markings, document layout and idiomatic notation. NR

MUS 130
MUSIC PRODUCTION I
2.5 Units; 2 hours lecture; 2 hours lab
Transfers: CSU
An introduction to computerized music creation. Topics will include an overview of the digital audio workstation, software and hardware setup, midi, virtual instruments, drum rack, signal processing and controllers. Emphasis will also be placed on musical elements such as form, style, pitch, melody, harmony and tempo. Students are limited to a combined total of four enrollments in MUS 118, 130, 131, and 132. NR

MUS 131
MUSIC PRODUCTION II
2 Units; 2 hours lecture; 1 hour lab
Transfers: CSU
Prerequisite: MUS 130
A second-level course in music production. Topics will include audio effects, advanced midi effects, sampling, creating loops, signal routing and advanced controllerism. Emphasis will also be placed on studying and emulating dance music styles. Students are limited to a combined total of four enrollments in MUS 118, 130, 131, and 132. NR

MUS 132
INTRODUCTION TO MUSIC TECHNOLOGY
2 Units; 2 hours lecture; 1 hour lab
Transfers: CSU
Prerequisite: MUS 130
An introduction course to basic principals in music technology. Topics will include sound properties, hardware, software, midi, sampling and notation software. Emphasis will also be placed on basic audio and midi editing. Students are limited to a combined total of four enrollments in MUS 118, 130, 131, and 132. NR

MUS 148
JAZZ ENSEMBLE
2 Units; 1 hour lecture; 3 hours lab
Transfers: CSU
Studies historically important and current large ensemble jazz music. Provides practical experience in organizing a variety of instrumental combinations. Practice in standard jazz ensemble phrasing and improvisation. The jazz ensemble will perform at different functions and may perform with nationally-known guest artists. Offered as open-entry/open-exit. Students are limited to a combined total of four enrollments in MUS 148, 241, and 242. R-E-3

MUS 99
ORGAN TECHNIQUE AND LITERATURE CLASS
INTERMEDIATE (B), LATE
2 Units; 2 hours lecture; 1 hour lab
Transfers: CSU, UC
Recommended Preparation: MUS 98 or demonstrated organ proficiency.
Instruction in keyboard and pedal techniques, registration, articulation, phrasing, dynamics, ornaments and varied repeats in hymns and standard organ literature. Performance of organ compositions for manuals with pedal, accompaniments and hymn tunes. Historical Performance Practice. Contemporary Organ style. Concert Procedures. Recital Performance. Late Intermediate Level. Students are limited to a combined total of four enrollments in MUS 96, 97, 98, and 99. Formerly MUS 105. NR

MUS 117
POPULAR SONGWRITING
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: MUS 1
Explores the popular music songwriting process. Emphasis will be placed on the mechanics of music: rhythm, form, style, melody and harmony. Students will also explore the relationship between lyrics and music. NR

MUS 130
MUSIC PRODUCTION I
2.5 Units; 2 hours lecture; 2 hours lab
Transfers: CSU
An introduction to computerized music creation. Topics will include an overview of the digital audio workstation, software and hardware setup, midi, virtual instruments, drum rack, signal processing and controllers. Emphasis will also be placed on musical elements such as form, style, pitch, melody, harmony and tempo. Students are limited to a combined total of four enrollments in MUS 118, 130, 131, and 132. NR

MUS 131
MUSIC PRODUCTION II
2 Units; 2 hours lecture; 1 hour lab
Transfers: CSU
Prerequisite: MUS 130
A second-level course in music production. Topics will include audio effects, advanced midi effects, sampling, creating loops, signal routing and advanced controllerism. Emphasis will also be placed on studying and emulating dance music styles. Students are limited to a combined total of four enrollments in MUS 118, 130, 131, and 132. NR

MUS 132
INTRODUCTION TO MUSIC TECHNOLOGY
2 Units; 2 hours lecture; 1 hour lab
Transfers: CSU
Prerequisite: MUS 130
An introduction course to basic principals in music technology. Topics will include sound properties, hardware, software, midi, sampling and notation software. Emphasis will also be placed on basic audio and midi editing. Students are limited to a combined total of four enrollments in MUS 118, 130, 131, and 132. NR

MUS 148
JAZZ ENSEMBLE
2 Units; 1 hour lecture; 3 hours lab
Transfers: CSU
Studies historically important and current large ensemble jazz music. Provides practical experience in organizing a variety of instrumental combinations. Practice in standard jazz ensemble phrasing and improvisation. The jazz ensemble will perform at different functions and may perform with nationally-known guest artists. Offered as open-entry/open-exit. Students are limited to a combined total of four enrollments in MUS 148, 241, and 242. R-E-3
MUS 173
INTERMEDIATE GUITAR
1.5 Units; 1 hour lecture; 2 hours lab
Transfers: CSU
Recommended Preparation: MUS 260.
Use the basic layout of the guitar to further each student’s understanding of the guitar fingerboard through a hands-on approach to the guitar’s intermediate vocabulary including more advanced exercises and more challenging repertoire. A deeper look into the application of music theory to the guitar fingerboard and an introduction on how to improvise a guitar solo will also be explored. Students are limited to a combined total of four enrollments in MUS 60, 61, 62, 173, and 260. NR

MUS 178
BEGINNING PIANO PEDAGOGY
3 Units; 3 hours lecture; 1 hour lab
Transfers: CSU
Recommended Preparation: Two years of piano study
Designed to study the art of piano teaching. Traces the history of piano method books and demonstrate the most effective teaching methods used today. Students will be given an opportunity to directly teach a 3rd grade student with guidance from the instructor. This course is offered for music major students as well as community teachers who wish to improve and refine their teaching style. Students are limited to a combined total of four enrollments in MUS 178, 179, and 256. NR

MUS 179
INTERMEDIATE PIANO PEDAGOGY
3 Units; 3 hours lecture; 1 hour lab
Transfers: CSU
Recommended Preparation: Three years of previous piano study or MUS 178
Designed to study the art of piano teaching. Demonstrates the most effective teaching methods used today and emphasize the technical and interpretive styles of the four major music periods. Students will be given an opportunity to directly teach a 5th grade student with guidance from the instructor. This course is offered for music major students as well as community teachers who wish to improve and refine their teaching style. Students are limited to a combined total of four enrollments in MUS 178, 179, and 256. NR

MUS 181
KEYBOARD LITERATURE AND INTERPRETATION – ROMANTIC TO MODERN
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: MUS SSA or 78 or demonstrated proficiency
Keyboard Literature of the Romantic, Impressionistic and Modern Periods, their performance traditions and interpretation. Expands knowledge of keyboard music history and its performance legacy. Students are limited to a combined total of four enrollments in MUS 58, 78, 181, 253, 255, and 257. NR

MUS 182
SOUL MUSIC ENSEMBLE
2 Units; 2 hours lecture; 1 hour lab
Transfers: CSU
Limitation: Audition: Student must perform at college level as determined by faculty
Rehearsal and performance of current popular music. Open to instrumentalists, midi instruments/controllers, vocalists, emcees and DJs. Additional focus on sound reinforcement and the business aspects of live performance. Public performance required. Students are limited to a combined total of four enrollments in MUS 39, 182, 184, and 187. NR

MUS 184
ELECTRONIC MUSIC ENSEMBLE
2 Units; 2 hours lecture; 1 hour lab
Transfers: CSU
Limitation: Audition: Student must perform at college level as determined by faculty
Rehearsal and performance of electro-acoustic material with a focus on current electronic genres. Open to instrumentalists, midi instruments/controllers, vocalists, emcees and DJs. Additional focus on live sound for electronic music and genre-specific marketing and promotion. Public performance required. Students are limited to a combined total of four enrollments in MUS 39, 182, 184, and 187. NR
MUS 233  
**CONTEMPORARY CHORAL MUSIC FOR TREBLE VOICES**  
2 Units; 1 hour lecture; 3 hours lab  
Limitation: Audition with college staff  
Recommended Preparation: Ability to sight read music  
Choral repertoire and performance of 20th and 21st Century choral music specifically composed for treble choirs (SSA and SSAA). The repertoire includes music of living composers such as Lauridsen, Whitacre, Berkey, and Larsen as well as composers who were prolific in the early 20th century such as Stravinsky, Elgar, and Poulenc. Rehearsals include study of the role of treble choirs in the development of choral composition in the 20th and 21st century and the development of contemporary vocal techniques within the context of the treble chorus. Rehearsals also include the study of choral blend for treble voices, appropriate diction for both traditional and non-traditional notation, as well as tuning for unique harmonic structures. Students are limited to a combined total of four enrollments in MUS 31, 32, 33, 232, and 234. NR

MUS 234  
**SATB VOICED COMMUNITY CHORALE**  
2 Units; 1 hour lecture; 3 hours lab  
Limitation: Audition with college staff  
Choral performance studies focusing on a broad range of choral music from multiple periods and styles of music. Included repertoire is smaller concert works suitable for chamber chorus, both a cappella and accompanied, as well as works with larger forces such as masses, requiems, staged works, and oratorios. Rehearsals include the study of a broad range of choral issues as the music relates to the specific period of composition, and the changing role of the chorus within the context of musical composition. Students are limited to a combined total of four enrollments in MUS 31, 32, 33, 232, 233, and 234. NR

MUS 240  
**IMPROVISED MUSIC IN A JAZZ COMBO**  
2 Units; 1 hour lecture; 3 hours lab  
Recommended Preparation: Previous instrumental training and demonstrated proficiency. Technical, historical and cultural approaches to jazz improvisation. Students are limited to a combined total of four enrollments in MUS 46, 240, and 297. NR

MUS 241  
**MEDIUM SIZE MALLEABLE JAZZ ENSEMBLE**  
2 Units; 1 hour lecture; 3 hours lab  
Recommended Preparation: MUS 27 and instrumental technical proficiency  
Performance of American improvised music by medium sized ensemble in both a traditional and experimental scope. Students are limited to a combined total of four enrollments in MUS 148, 241, and 242. NR

MUS 242  
**MID-SIZE AFRICAN-AMERICAN BASED ENSEMBLE JAZZ**  
2 Units; 1 hour lecture; 3 hours lab  
Recommended Preparation: MUS 27 and instrumental technical proficiency  
Performance of music influenced by African-American improvised music in both a traditional and experimental scope. Students are limited to a combined total of four enrollments in MUS 148, 241, and 242. NR

MUS 243  
**CONTEMPORARY BIG BAND LITERATURE**  
2 Units; 1 hour lecture; 3 hours lab  
Limitation: Audition with college staff  
Recommended Preparation: Previous instrumental training and demonstrated proficiency  
Performance of contemporary big band literature from the late 20th and early 21st centuries. Interpretation, phrasing, and cultural context of each piece will be addressed and performed. Students are limited to a combined total of four enrollments in MUS 47, 246, and 247. NR

MUS 244  
**MODERN BIG BAND CONCEPTS**  
2 Units; 1 hour lecture; 3 hours lab  
Recommended Preparation: Previous instrumental training and demonstrated proficiency. Explores new music by young composers at the vanguard of large ensemble jazz. Interpretation of modern application of African-American and Western European compositional styles as combined in the 21st century. Students are limited to a combined total of four enrollments in MUS 47, 246, and 247. NR

MUS 252A  
**JAZZ PIANO I**  
1.5 Units; 1 hour lecture; 2 hours lab  
Recommended Preparation: MUS 54A or demonstrated keyboard proficiency  
Exploration and study of basic harmonies at the keyboard as applied to popular music and jazz. Study of improvisational techniques. Designed for intermediate and advanced piano students. Students are limited to a combined total of four enrollments in MUS 252A, 252B, and 252C. NR

MUS 252B  
**JAZZ PIANO II**  
1.5 Units; 1 hour lecture; 2 hours lab  
Recommended Preparation: MUS 252A or demonstrated keyboard proficiency  
Develop advanced harmonic and improvisational techniques and skills designed to enhance their performance of jazz piano. Study of harmonic progressions common to jazz will be included. Designed for intermediate to advanced piano students. Students are limited to a combined total of four enrollments in MUS 252A, 252B, and 252C. NR

MUS 252C  
**JAZZ PIANO III**  
1.5 Units; 1 hour lecture; 2 hours lab  
Recommended Preparation: MUS 252B or demonstrated keyboard proficiency  
Study techniques for playing solo piano and in a jazz combo including chord voicings and accompaniments for different jazz styles. Includes the study of early to modern styles of jazz piano. Designed for intermediate and advanced piano students. Students are limited to a combined total of four enrollments in MUS 252A, 252B, and 252C. NR
MUS 253
ADVANCED PIANO MUSIC OF HAYDN
2 Units; 1 hour lecture; 3 hours lab
Recommended Preparation: MUS 56 or two years of previous piano study
Dedicated solely to keyboard literature, this intermediate course explores music of the various composers that are presently writing solos and duets. Students will expand technique, scale patterns, chord progressions, music analysis proficiency, expressive interpretation, improvisational skills and listening appreciation using these contemporary piano pieces. Students are limited to a combined total of four enrollments in MUS 58, 78, 181, 253, 255, and 257. NR

MUS 255
PIANO COMPOSERS OF TODAY
1.5 Units; 1 hour lecture; 2 hours lab
Recommended Preparation: MUS 55B
Dedicated solely to keyboard literature, this intermediate course introduces the student to sight-reading, theory and analysis, technique and practice routines, coaching sessions, performing, and listening to enhance piano playing and an awareness of the elements of style and musicianship using the standard favorite solos in piano literature. Students are limited to a combined total of four enrollments in MUS 58, 78, 181, 253, 255, and 257. NR

MUS 256
ADVANCED PIANO PEDAGOGY
3 Units; 3 hours lecture; 1 hour lab
Recommended Preparation: MUS 179 or four years of previous piano study
Designed to help the more experienced piano teachers refine their piano teaching techniques. Teachers will be expected to teach and perform music in the correct style. Teaching demonstrations with younger students will be required. Piano literature for the late-intermediate and early-advanced levels will be emphasized. Students are limited to a combined total of four enrollments in MUS 178, 179, and 256. NR

MUS 257
FAVORITE PIANO CLASSICS
1.5 Units; 1 hour lecture; 2 hours lab
Recommended Preparation: MUS 55B
Dedicated solely to keyboard literature, this intermediate course introduces the student to sight-reading, theory and analysis, technique and practice routines, coaching sessions, performing, and listening to enhance piano playing and an awareness of the elements of style and musicianship using the standard favorite solos in piano literature. Students are limited to a combined total of four enrollments in MUS 58, 78, 181, 253, 255, and 257. NR

MUS 258
ADVENTUROUS PIANO PERFORMANCE
1 Unit; 1 hour lecture; 3 hours lab
Recommended Preparation: MUS 55B
Dedicated solely to keyboard literature, this intermediate course introduces the student to sight-reading, theory and analysis, technique and practice routines, coaching sessions, performing, and listening to enhance piano playing and an awareness of the elements of style and musicianship using the standard favorite solos in piano literature. Students are limited to a combined total of four enrollments in MUS 58, 78, 181, 253, 255, and 257. NR

MUS 260
BASIC GUITAR
1.5 Units; 1 hour lecture; 2 hours lab
Studies basic techniques of the guitar. Emphasis will be on music fundamentals as it pertains to basic guitar techniques and the reading of music. Prepares students for further study in classical and/or jazz guitar. Students are limited to a combined total of four enrollments in MUS 60, 61, 62, 173, and 260. NR

MUS 266
IMPROVISED CHAMBER MUSIC
2 Units; 1 hour lecture; 3 hours lab
Recommended Preparation: Previous instrumental training and demonstrated proficiency
Technical, historical, stylistic and cultural approaches to jazz improvisation in an improvised chamber music setting. Students are limited to a combined total of four enrollments in MUS 63, 66, and 266. NR

MUS 267
INTERMEDIATE PIANO PEDAGOGY
1 Unit; 1 hour lecture; 2 hours lab
Recommended Preparation: Previous instrumental training and demonstrated proficiency
Dedicated solely to keyboard literature, this intermediate course introduces the student to sight-reading, theory and analysis, technique and practice routines, coaching sessions, performing, and listening to enhance piano playing and an awareness of the elements of style and musicianship using the standard favorite solos in piano literature. Students are limited to a combined total of four enrollments in MUS 58, 78, 181, 253, 255, and 257. NR

MUS 297
REHEARSAL AND PERFORMANCE (JAZZ STUDIES)
1 Unit; 3 hours lab
Limitation: Audition with college staff
Recommended Preparation: Previous instrumental training
Emphasizes the preparation and production of jazz combos in public performance. Students are limited to a combined total of four enrollments in MUS 46, 240, and 297. NR

N 160
PHARMACOLOGY FOR NURSING
2.5 Units; 2.5 hours lecture
Transfers: CSU
Prerequisite: BIO 12
Recommended Preparation: BIO 11
Provides a methodical approach for administering drugs and monitoring the patient's response to drug therapy. Content includes general principles of pharmacology, as well as legal, ethical, and safety aspects of medication administration. Focuses on the interaction between core drug knowledge (pharmacodynamics, pharmacokinetics, contraindications or precautions, adverse effects and drug interactions) and core patient variables (health status, lifespan and gender, diet, lifestyle and habits, environment, inherited traits, and US cultural groups). Emphasizes nursing responsibilities maximizing therapeutic effects, and minimizing adverse effects. Provides the foundation of basic pharmacology required for a nurse. NR

N 161
LIFECYCLE 2: GROWTH AND DEVELOPMENT
1.5 Units; 1.5 hours lecture
Transfers: CSU
The second course in life span growth and development which examines developmental tasks and needs from prenatal and birth through middle age, including environmental and family factors that influence growth and development. Major developmental theories are addressed at each level of growth and development. Physiologic concepts, self concept, social behaviors and concepts of diversity and culture for individuals and families from diverse cultural groups within the United States are integrated. NR
N 162
SUCCESSFUL TRANSITION TO PROFESSIONAL NURSING
1 Unit; 1 hour lecture
Transfers: CSU
Prerequisite: BIO 11, 12, 15 and ENG 1A
Limitation: LVN with 1 year experience or transfer / international RN student. Must be completed within 3 semesters of entry into nursing program.
Corequisite: N 162 lab
Addresses strategies for successful completion of the nursing program. Provides theory base and practice with study skills and test taking, critical thinking, use of information technology, the role of the registered nurse, nursing process, and effective and therapeutic communication. Includes practice of nursing skills in a simulated clinical learning environment in preparation for competency testing. Includes practice and competency testing in physical assessment, intravenous medication administration, medication math competency, and application of nursing process. NR

N 164
LVN TO RN CLINICAL LAB
1.5 Units; 4.5 hours lab
Transfers: CSU
Prerequisite: N 162
Limitation: Current LVN License, American Heart BLS certified, IV certification, physical exam and immunizations, TB test, malpractice insurance, background check
Recommended Preparation: HSC 228 and N 245
This clinical lab class allows prospective LVN-RN students to apply nursing process and specific nursing skills learned in N162 (Successful Transition to Professional Nursing) to the care of adult medical surgical patients. Students will be guided in completing pre-clinical work-ups, care maps, bedside nursing assessments, medication administration (including IV), and professional role transition. NR

N 165
LIFECYCLE 1: FUNDAMENTALS OF AGING
1.5 Units; 1.5 hours lecture
Transfers: CSU
A multidisciplinary introduction to aging emphasizing the adaptive behaviors of normal aging, and focusing on physical and psychosocial changes. Includes the variables of financial resources, legal aspects, socialization needs, cultural differences within the US, healthcare issues, and current concerns involving the older adult. NR

N 170
NURSING PROCESS
3.25 Units; 3.25 hours lecture
Transfers: CSU
Prerequisite: BIO 11, 12, 15, with a grade of "C" or better, completion of ENG 1A, and official admission to the nursing program
Corequisite: N 170 Lab
Recommended Preparation: Completion of or concurrent enrollment in N160 and 165 with a grade of "C" or better
Provides the theoretical base needed for application of the nursing process at a beginning level. Focus is on the care of the adult medical-surgical client care consumer with less complicated disorders, in a variety of healthcare settings. Concepts and rationales related to fundamental nursing practice are stressed. Principles of safety, physical and psychosocial assessment, effective and therapeutic communication, pharmacology, nutrition, the business of health care, community health, issues of professional practice, health teaching, diversity among US cultural groups, growth and development, geriatric nursing, disease process, disease prevention, restorative care, and end-of-life care are integrated. NR

N 170
NURSING PROCESS LAB
4.5 Units; 13.5 hours lab
Transfers: CSU
Prerequisite: N 170 Lecture
Corequisite: N 170 Lab
Recommended Preparation: Completion of or concurrent enrollment in N160 and 165 with a "C" or better
Provides clinical application of the theoretical base and nursing process at a beginning level. Focus is on the care of the adult medical-surgical, health care consumer with less complicated disorders, in a variety of healthcare settings. Concepts and rationales related to fundamental nursing practice are stressed. Principles of safety, physical and psychosocial assessment, effective and therapeutic communication, pharmacology, nutrition, community health and the business of health, issues of professional practice, health teaching, diversity among US cultural groups, growth and development, geriatric nursing, disease process, disease prevention, restorative care, and end-of-life care are integrated. NR
N 171
MENTAL HEALTH NURSING
2 Units; 2 hours lecture
Transfers: CSU
Prerequisite: N 170
Corequisite: N 171 lab
Recommended Preparation: PSYC 1
Provides the theoretical base for applying the nursing process and biopsychosocial concepts to the care of individuals who have ineffective behaviors in psychosocial functioning. Emphasis is on communication and the principles of psychiatric/mental health nursing, including psychopathology. Principles of nutrition, psychopharmacology, health education, health promotion, illness prevention, community health, human development, advocacy and concepts of diversity and culturally competent care for individuals from cultural groups within the United States are integrated. NR

N 172
MEDICAL-SURGICAL NURSING
3.5 Units; 3.5 hours lecture
Transfers: CSU
Prerequisite: N 160, 165, 170, and 171, with grades of "C" or better
Corequisite: N 172 Lab
Recommended Preparation: HSC 228
Provides the theoretical basis for the application of the nursing process to the adult medical-surgical client who requires moderately complex nursing care in acute care facilities and community settings. Emphasis is on pathophysiology biopsychosocial needs in the following areas: oxygenation, fluid and electrolytes, activity and rest, neurological function, endocrine function, gastrointestinal function, and protective function. Principles of nutrition, medication administration, communication, health education, health promotion, illness prevention, human development, advocacy, and concepts of diversity and culturally competent care for individuals from cultural groups within the United States are integrated. NR

N 173
NURSING CARE OF CHILDREN AND FAMILIES
1.5 Units; 1.5 hours lecture
Transfers: CSU
Prerequisite: N 161 and N 172 with a grade of "C" or better
Limitation: Official admission to the nursing program
Corequisite: N 173 Lab
Recommended Preparation: HSC 228 and N 245
Theory basis for integration and application of the nursing process in providing nursing care for neonates, infants, children and adolescents and their families/significant others. Emphasis is on family centered approach to nursing care, communication, health education, health promotion, illness prevention, and adaptation. Principles of nutrition, medication/fluid administration, physiology, growth and development, comforting/pain management, advocacy, and concepts of diversity/culturally competent care for US cultural and ethnic groups are integrated. Letter grade only NR
N 174  
**WOMEN'S HEALTH NURSING**  
*1.5 Units; 1.5 hours lecture*  
Transfers: CSU  
Prerequisite: N 173 with a grade of "C" or better  
Corequisite: N 174 Lab  
Theory basis for application of the nursing process in providing nursing care for women, infants, family, and significant others. Emphasis is on a family-centered approach to nursing care, communication, health education, health promotion, illness prevention, and adaptation directed towards the female patient, the neonate, and the family/significant others. Principles of nutrition, medication/fluid administration, physiology, growth and development, advocacy, and concepts of diversity and culturally competent care for individuals from cultural groups within the United States are integrated. Letter grade only.  
*NR*

N 176  
**ADVANCED NURSING**  
*3 Units; 3 hours lecture*  
Transfers: CSU  
Prerequisite: N 174 with a "C" grade or better  
Corequisite: N 176 Lab  
Recommended Preparation:  
HSC 217, 226  
Provides the theoretical basis for integration of the nursing process to care for acutely and critically ill adults. Emphasizes pathophysiology and the biopsychosocial needs for acutely ill adults with: cardiovascular, respiratory, renal, neurological, gastrointestinal, endocrine and complex multisystem dysfunction. Principles of leadership and management, professional development, scope of practice, legal and ethical issues, principles of nutrition, the role of the nurse in the community and transition to the role of a registered nurse are integrated throughout the course. Concepts of diversity and culturally competent care for cultural groups in the United States are presented. Letter grade only.  
*NR*

N 174  
**WOMEN'S HEALTH NURSING LAB**  
*2 Units; 6 hours lab*  
Transfers: CSU  
Prerequisite: N 173 with grade of "C" or better  
Corequisite: N 174  
Integrates and applies the nursing process in providing nursing care for women, infants, family, and significant others. Emphasis is on a family-centered approach to nursing care, communication, health education, health promotion, illness prevention, and adaptation directed towards the female patient, the neonate, and the family/significant others. Principles of nutrition, medication/fluid administration, physiology, growth and development, advocacy, and concepts of diversity and culturally competent care for individuals from cultural groups within the United States are integrated. Letter grade only.  
*NR*

N 176  
**ADVANCED NURSING LAB**  
*5 Units; 15 hours lab*  
Transfers: CSU  
Prerequisite: N 174 with a grade of "C" or better  
Corequisite: N 176 Lecture  
Recommended Preparation:  
HSC 217 and 226  
Focuses on the application and integration of the nursing process to care for acutely and critically ill adults. Emphasis is on pathophysiology and the biopsychosocial needs for acutely ill adults with: cardiovascular, respiratory, renal, neurological, gastrointestinal, endocrine and complex multisystem dysfunction. Principles of leadership and management, scope of practice, legal and ethical issues, principles of nutrition, the role of the nurse in the community and transition to the role of a registered nurse are integrated throughout the course. Concepts of diversity and culturally competent care for cultural groups in the United States are presented.  
*NR*

N 202  
**SUCCESS STRATEGIES IN NURSING**  
*1 Unit; 1 hour lecture*  
Limitation: Official admission to the nursing program  
Develops strategies to be a successful student in the nursing program. Assesses personal aptitudes, learning and communication styles as barriers to successful completion of the nursing program. Develops skills to proactively meet the student’s learning needs.  
*NR*

N 204  
**BEGINNING NURSING CONCEPTS**  
*2 Units; 2 hours lecture*  
Recommended Preparation:  
BIO 11 and 15  
Introduces the health science student to the theoretical basis of nursing and healthcare, to provide a successful transition into the student nurse role. Students are provided opportunity to discuss the roles of the student nurse and the professional Registered Nurse. Emphasis is placed on the nursing role, including expectations of the nursing student, and on opportunities to begin to explore principles of critical thinking and the nursing process. Students are exposed to the history of nursing, conceptual framework at Saddleback College, dimensional analysis, medical terminology, communication, nutrition, cultural awareness, nursing informatics and current issues in nursing ethical and legal issues.  
*NR*

N 212  
**LABORATORY VALUES: INTERPRETATION AND APPLICATION**  
*1.5 Units; 1.5 hours lecture*  
Provides the theoretical basis for the interpretation and application of laboratory test results for adult medical-surgical clients with moderately complex diseases/disorders in acute care facilities. Emphasis is on laboratory results of moderately complex clients with respiratory, endocrine, renal, musculoskeletal, cardiac, neurological, gastrointestinal, and immune diseases/disorders. Principles of nutrition, drug therapy, health education, concepts of diversity and culturally competent care for individuals from cultural groups within the United States are integrated.  
*NR*
N 238 PERIOPERATIVE NURSING
10 Units; 3 hours lecture; 21 hours lab
Limitation: Current or pending RN license, current CPR card, and current malpractice insurance
Perioperative nursing theory and practice necessary for entry level into the operating room. Focuses on utilization of the nursing process to provide care for clients undergoing surgical intervention. Provider approved by the California Board of Registered Nursing, Provider Number CEP60. NR

N 245 I.V. THERAPY TECHNIQUES FOR NURSES
1.5 Units; 1.5 hours lecture
Prerequisite: N 170
The focus of this course is to prepare the student for initiation, administration and maintenance of common intravenous therapies. Emphasis is placed on IV therapies common to adult patients in the medical-surgical setting. The course is appropriate for nursing students who have successfully completed N 170 and for current California licensed RNs needing a refresher. NR

N 263 SKILLS LAB–BASIC
0.25 Unit; 0.75 hours lab
Includes demonstration and practice of basic manual skills and procedures necessary for the student at the fundamental level. Offered as open-entry/open-exit and pass/no pass. NR

N 264 SKILLS LAB–SPECIALTIES
0.25 Unit; 0.75 hours lab
Recommended Preparation: N 173 and 174
Includes demonstration and practice of the manual skills and procedures necessary for the student at the advanced medical-surgical level. Open-entry/open-exit. Offered pass/no pass only. NR

N 265 SKILLS LAB–ADVANCED
0.25 Unit; 0.75 hours lab
Recommended Preparation: N 173 and 174
Includes demonstration and practice of manual skills and procedures necessary for the student at the advanced medical-surgical level. Open-entry/open-exit. Offered pass/no pass only. NR

N 267 SKILLS LAB–INTERMEDIATE
0.25 Unit; 0.75 hours lab
Includes demonstration and practice of intermediate skills and procedures necessary for the student at the intermediate level. Offered as open-entry/open-exit and pass/no pass. NR

N 268 SKILLS LAB REVIEW
0.25 Unit; 0.75 hours lab
Includes demonstration and practice of the manual skills and procedures performed by registered nurses in various settings. Is geared towards the student who has learned the skill in a previous course and desires more practice or application of the skill in a new setting. NR

PM 220 PARAMEDIC THEORY
14 Units; 14 hours lecture
Prerequisite: High school graduation or GED, current EMT-B certification background check, CPR certification, and official admission to the paramedic program
Limitation: Physical examination required
Corequisite: PM 230
Recommended Preparation:
PM 219, HSC 217, 226
Contains the didactic material necessary to establish a foundation to practice as a paramedic. Includes applied anatomy and physiology, pathophysiology, intravenous therapy, basic and advanced life support, patient assessment, management of trauma, medical conditions emergency medical system operations and special considerations when caring for patients throughout the life span and those with special challenges. NR

PM 230 PARAMEDIC CLINICAL EXPERIENCE
7.5 Units; 23 hours lab
Prerequisite: High school graduation or GED, current EMT-B certification, CPR, background check and official admission to the paramedic program
Limitation: Physical examination required
Corequisite: PM 220
Includes the skills assessment and hospital clinical requirements for students enrolled in the paramedic program. NR

PM 240 PARAMEDIC FIELD INTERNSHIP
12 Units; 36 hours lab
Prerequisite: PM 220 and 230
Under the direct supervision of an evaluation of a licensed paramedic, students will complete a field internship experience on a designated advanced life support unit. This provides students with prehospital patient care experience and is the last course in the series preparing the student for licensure as a paramedic. NR

Persian

PRSN 1 ELEMENTARY PERSIAN
5 Units; 5 hours lecture
Transfers: CSU, UC
Corequisite: PRSN 901
Recommended Preparation:
College-level reading ability
Designed to develop the fundamentals of communicative competence in daily spoken modern Persian (Farsi). Emphasizes listening, comprehension, and conversational skills. Early reading and writing skills are introduced, as well as fundamental aspects of culture. Equivalent to two years of high school Persian (Farsi). NR

PRSN 2 ELEMENTARY PERSIAN
5 Units; 5 hours lecture
Transfers: CSU, UC
Prerequisite: PRSN 1 or two years of high school Persian/Farsi
Corequisite: PRSN 902
Designed to further the fundamentals of communicative competence in daily spoken modern Persian (Farsi). Focuses on listening, comprehension, and speaking. Reading and writing skills will be expanded. This course continues the familiarization with customs and cultural achievements begun in the previous semester. NR

PRSN 3 INTERMEDIATE PERSIAN
5 Units; 5 hours lecture
Transfers: CSU, UC
Prerequisite: PRSN 2 or three years of high school Persian
Corequisite: PRSN 903
Reviews the fundamentals with further study of the Persian language, culture, and customs. Intermediate level course focuses on fluency in reading, writing, speaking and listening. NR
PRSN 4
INTERMEDIATE PERSIAN
5 Units; 5 hours lecture
Transfers: CSU, UC
Prerequisite: PRSN 3 or four years of high school Persian
Corequisite: PRSN 904
Emphasizes fluency in speaking, reading, writing, and comprehension of Persian. Includes selected readings and discussions from the basic four genres in Persian and Persian-American literature, culture, and customs. NR

PRSN 901
PERSIAN LANGUAGE LAB
0.25 Unit; 1 hour learning center
Corequisite: PRSN 1
Requires concurrent enrollment in Persian 1. Enhances and provides practice in skills learned in Persian 1 course. NR

PRSN 902
PERSIAN LANGUAGE LAB
0.25 Unit; 1 hour learning center
Corequisite: PRSN 2
Requires concurrent enrollment in Elementary Persian 2. Enhances and provides practice in skills learned in Elementary Persian courses. NR

PRSN 903
PERSIAN LANGUAGE LAB
0.25 Unit; 1 hour learning center
Corequisite: PRSN 3
Requires concurrent enrollment in Persian 3. Enhances and provides practice in skills learned in Persian 3 course. NR

PRSN 904
PERSIAN LANGUAGE LAB
0.25 Unit; 1 hour learning center
Corequisite: PRSN 4
Requires concurrent enrollment in Persian 4. Enhances and provides practice in skills learned in Persian 4 course. NR

Philosophy

PHIL 1
INTRODUCTION TO PHILOSOPHY
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: Eligibility for ENG 1A
Introduces the student to the theoretical orientations, central concepts, basic problems, and classical arguments of Western philosophy of religion. The course will systematically clarify and critically analyze a range of topical problems in the philosophy of religion. These include the concept of God, traditional arguments for the existence of God (e.g. the design argument), religious ethics, the problem of evil, and philosophical atheism. Students will engage in theoretical discussions, develop critical reasoning skills, and gain reflective insight into their personal philosophy of religion. NR

PHIL 10
WORLD RELIGIONS
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: Eligibility for ENG 1A
A comparative study of some of the major religions of the world including the Buddhist, Confucianist, Hindu, Islamic, Judeo-Christian, Shinto and Taoist traditions. These religions will be explored from a historical standpoint; in addition, the philosophical presuppositions of each view will be discussed. Topics include the nature of human beings, the world, transcendent beings, transcendent experiences, ethics, religious rituals and rites of passage. NR

PHIL 14
PHILOSOPHY OF RELIGION
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: PHIL 1
Introduces the student to the theoretical orientations, central concepts, basic problems, and classical arguments of Western philosophy of religion. The course will systematically clarify and critically analyze a range of topical problems in the philosophy of religion. These include the concept of God, traditional arguments for the existence of God (e.g. the design argument), religious ethics, the problem of evil, and philosophical atheism. Students will engage in theoretical discussions, develop critical reasoning skills, and gain reflective insight into their personal philosophy of religion. NR

PHIL 12
INTRODUCTION TO LOGIC
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: ENG 1A
An examination and analysis of reasoning employed in formal and informal arguments. Arguments will be formulated in class and evaluated for logical structure, validity, and soundness. Topics include the nature of arguments, the inductive-deductive distinction, fallacies, truth tables, and the proof method in sentential logic. NR

PHIL 15
INTRODUCTION TO ETHICS
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: Eligibility for ENG 1A
Acquaints the student with the major concepts and methods of ethical theory within the Western tradition. Topics will include the nature of evaluation, appraisals of the good life, the source and justification of obligations to others, the possible relativity of ethical codes as they vary from culture to culture, and the connection between individual desires and social restraint. Application of these topics to issues of contemporary importance, such as the moral implications of abortion, sexual freedom of expression, changing social roles, the role of religious belief in moral theory, and the social sources of ethical perspectives. NR
PHIL 103
HISTORY OF ANCIENT PHILOSOPHY
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: Eligibility for ENG 1A
An historically oriented survey of the leading themes of philosophical interest within the Western tradition from the Pre-Socratic era through the Classical Periods of the Greek and Roman eras to the beginnings of the Christian period. Major figures of continuing importance to be studied may include Socrates, Plato, Aristotle, Epicurus, and St. Augustine. The student will become acquainted with the roots of Western civilization through studying the above writers’ theories concerning human nature of thought, truth and rational justification. Selected topics may include political philosophies, ethics, the nature of beauty (aesthetics) and the nature of the gods. NR

PHIL 104
HISTORY OF MODERN PHILOSOPHY
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: Eligibility for ENG 1A
A survey of the major trends of philosophical thought from the 16th century to the 18th century. Major figures will include Descartes, Hume, and Kant. Investigates the evolving theories concerning man’s nature, value systems, views of the social order, the nature of knowledge, the nature of mind, the uses of language, and the universe and our place within it. Students will be encouraged to formulate their own critically reflective points of view with regard to the theories put forth. NR

Phlebotomy

PHLB 240
PHLEBOTOMY
4 Units; 4 hours lecture
Limitation: Official admission to the Medical Lab Technology program. Current malpractice insurance, TB test results, CPR card, background check required.
Recommended Preparation: HSC 201
A California state approved full training program in phlebotomy. Provides students with a comprehensive knowledge of venipuncture, skin puncture, specimen collection and handling, standard precautions, laboratory safety, and basic medical terminology. Concepts of diversity and culturally competent care for individuals from culture groups within the United States are integrated. Certificate awarded upon completion of course with grade of "C-" or better. Letter grade only. NR

PHOT 50
DIGITAL PHOTOGRAPHY I
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU, UC
Introduction to digital photography to cover technical and aesthetic aspects. Includes operation of camera and lenses and photographic software. Fundamentals of composition, light, and portraiture are covered. NR

PHOT 51
INTRODUCTION TO PHOTOSHOP AND DIGITAL IMAGING
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU, UC
Recommended Preparation: CIM 120 or basic operational knowledge of a computer
An introduction to digital imaging using Adobe Photoshop software on the computer. The course will cover the various equipment and techniques utilized in the production of digital imagery: scanning, manipulation, and output. Aesthetic issues and their relationship to photography will be covered. NR

PHOT 55
DIGITAL PHOTOGRAPHY II
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU, UC
Prerequisite: PHOT 50
Recommended Preparation: PHOT 51
Continued refinement of photographic imagery and techniques. Electronic flash, wide angle, and telephoto lenses are utilized. Work is executed in color and black and white. NR

Photography

PHOT 25
HISTORY OF PHOTOGRAPHY
3 Units; 3 hours lecture
Transfers: CSU, UC
A survey of the history of photography from its origins to the present. An examination of critical and philosophical approaches to the photographic medium. NR

PHOT 152
INTERMEDIATE PHOTOSHOP AND DIGITAL IMAGING
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU, UC
Prerequisite: PHOT 51
Recommended Preparation: PHOT 50
An intermediate-level course in photographic manipulation using Adobe Photoshop. Relevant technical and aesthetic issues will be covered. Scanning and inkjet printing included. NR
PHOT 154  
ALTERNATIVE DIGITAL PROCESSES  
3 Units; 2 hours lecture; 3 hours lab  
Transfers: CSU  
Recommended Preparation: PHOT 51  
An intermediate level course that explores analog and digital photography based techniques used to create unique art works. The course covers digital printing on alternative media, image lifts, transfers, photographic multimedia and assemblage. The course also includes scanning of positive and negative images and 3D objects. Book and portfolio presentation are also covered. Macintosh lab environment utilizing Adobe software. NR

PHOT 156  
DIGITAL PHOTOGRAPHY III  
3 Units; 2 hours lecture; 3 hours lab  
Transfers: CSU  
Prerequisite: PHOT 55  
Emphasis on creating visual imagery through advanced photographic techniques. Includes fundamentals of studio lighting, with tungsten and electronic flash systems. Continued refinement of photographic software techniques. NR

PHOT 157  
STUDIO LIGHTING  
3 Units; 2 hours lecture; 3 hours lab  
Transfers: CSU  
Prerequisite: PHOT 55  
An introductory level course in photographic studio lighting intended for the advanced photographer. Covers lighting, equipment, and its application in a studio environment. Includes technical and aesthetic instruction with single and multiple light setups, lighting styles, and subject compositional concerns. Manually adjustable digital camera required. Macintosh lab, utilizing Adobe software. NR

PHOT 167  
CREATIVE PHOTOGRAPHIC LIGHTING  
3 Units; 2 hours lecture; 3 hours lab  
Transfers: CSU  
Prerequisite: PHOT 55  
Exploration of various lighting styles and techniques used in contemporary photography. Utilization of specialized lighting equipment both in and out of studio, with emphasis on event and location specific photographic lighting. NR

PHOT 190  
SPECIAL PROBLEMS IN PHOTOGRAPHY  
3 Units; 2 hours lecture; 3 hours lab  
Transfers: CSU  
Prerequisite: PHOT 50  
Continued exploration of advanced photographic concepts and their development through various processes. Includes vintage and contemporary techniques. NR

PHOT 200  
PORTRAITURE PHOTOGRAPHY  
3 Units; 2 hours lecture; 3 hours lab  
Prerequisite: PHOT 55  
An exploration of various styles and techniques used in contemporary portraiture. Essential basics of lighting (natural and artificial), composition, and direction will be covered. NR

PHOT 201  
INTRODUCTION TO DIGITAL PHOTOGRAPHY  
1.5 Units; 1.5 hours lecture  
An introductory-level course in digital photography intended for the complete novice or technically challenged. Covers basic camera controls, functions, and settings. Also includes digital image management, storage, archiving and printing techniques. Composition, light and portraiture are explored. Digital camera required, no lab. NR

PHYS 2B  
INTRODUCTION TO PHYSICS  
5 Units; 4 hours lecture; 3 hours lab  
Transfers: CSU, UC  
Prerequisite: PHYS 2A  
A continuation course from PHYS 2A. Study of electrostatics, electromagnetism, optics atomic and nuclear physics. Topics include electric charge, fields, circuits, electromagnetic induction, electromagnetic waves, electric applications, lenses and mirrors, wave optics, optical applications, waves and particles, special relativity, the Bohr atom, quantum concepts, the nucleus, nuclear processes and energy. NR

PHYS 4A  
GENERAL PHYSICS  
5 Units; 4 hours lecture; 3 hours lab  
Transfers: CSU, UC  
Prerequisite: MATH 3A  
Recommended Preparation: CS 1A and PHYS 20 or high school physics  
A calculus-based introduction to classical mechanics of solids and fluids. The main topics are kinematics, Newtonian mechanics including translational and rotational statics and dynamics, universal gravitation, work, energy, momentum, fluid statics, dynamics, and oscillations. Experiments in lab examine the basic laws of the mechanics of solids and fluids. Objectives include the use of common measuring instruments, the principles of data taking and analysis, and the writing of scientific reports. NR

Physical Education (SEE KINESIOLOGY)

Physics

PHYS 2A  
INTRODUCTION TO PHYSICS  
5 Units; 4 hours lecture; 3 hours lab  
Transfers: CSU, UC  
Prerequisite: MATH 124  
Recommended Preparation: PHYS 20 or high school physics  
Intended for students in the sciences and related subjects who are required to complete a physics course based on trigonometry. A study of mechanics, vibration and waves, fluids, and thermodynamics. Topics include kinematics and dynamics in one and two dimensions, Newton's Laws of motion, energy and momentum, conservation principles, statics, kinematics and dynamics of rotation, elasticity, Hook's Law, simple harmonic motions, wave behavior, interference and standing waves, properties of fluids, Pascal's and Bernoulli's principles, temperature, heat calorimetry, the gas laws, and the laws of thermodynamics. NR
PHYS 4B
GENERAL PHYSICS
5 Units; 4 hours lecture; 3 hours lab
Prerequisite: PHYS 4A & MATH 3B
Transfer: CSU, UC
A calculus-based introduction to classical electromagnetism. Topics include electrostatics, electric potential, capacitance, electrodynamics, direct and alternating current circuits, magnetic forces and fields, fields, electromagnetic induction, Maxwell’s equations, and electromagnetic waves. Experiments in labs examine some of the basic phenomena in electromagnetism. Students are to become proficient in the use of common, modern measuring instruments e.g. digital and analog voltmeters, ammeters, ohmmeters and the oscilloscope. The principles of data taking and analysis, and the writing of scientific reports are emphasized. NR

PHYS 20
THE IDEAS AND EVENTS OF PHYSICS
4 Units; 3 hours lecture; 3 hours lab
Transfers: CSU, UC
Intended for students not majoring in science. Focuses on major discoveries, ideas and methods in physics. Included are simple motions, the nature of matter and energy, electric and magnetic effects, and 20th-century ideas in relativity, and atomic and nuclear science. Emphasis is on understanding concepts rather than mathematical aspects. This course is also suggested for students having no previous physics training as preparation for more advanced physics courses. NR

Political Science

PS 1
AMERICAN GOVERNMENT
3 Units; 3 hours lecture
Transfers: CSU, UC
Survey of principles, personalities, problems, and issues of government. Emphasizes developing trends of government, including local, state, and federal branches. NR

PS 4
INTRODUCTION TO POLITICAL SCIENCE
3 Units; 3 hours lecture
Transfers: CSU, UC
Introduces the study of politics. Designed to familiarize the student with the basic systems, ideologies, and models of political analysis. NR

PS 10H
HONORS POLITICAL THEORY
3 Units; 3 hours lecture
Transfers: CSU, UC
A survey and analysis of selected political theorists and concepts. Ancient, classical, medieval, Renaissance, and modern political theory will be studied. The lineage of political concepts such as justice, freedom, power, and property will be traced as they evolved over time. Letter grade only. NR

PS 11
INTERNATIONAL POLITICAL ECONOMY
3 Units; 3 hours lecture
Transfers: CSU, UC
Focuses on the relations between the political and economic systems within the global economy. Covers the impact of political decisions on world economies and international organizations. Further emphasis is on a comparison-contrast of various national economies. Geographic areas of concern include Africa, Europe, the Pacific Rim, the Middle East, Latin America, Russia, China, and the United States. Also listed as ECON 11. Credit given in either area, not both. NR

PS 12
COMPARATIVE POLITICS AND GOVERNMENT
3 Units; 3 hours lecture
Transfers: CSU, UC
Comparison of different political systems with analysis of governmental institutions and political processes. Description and explanation of different combinations of events and structures found in the politics of various societies. NR

PS 14
INTERNATIONAL RELATIONS
3 Units; 3 hours lecture
Transfers: CSU, UC
An examination of contemporary world trends with emphasis on conflict and problem areas. NR

PS 80
INTRODUCTION TO CONTEMPORARY AFRICA
3 Units; 3 hours lecture
Transfers: CSU, UC
A survey of African history from ancient Egypt to the present. Focus will be on the nature of early African empires and societies, the impact of the slave trade, responses to imperial conquest and colonial rule, the rise of nationalist movements and the regaining of political independence, and the contemporary challenges facing post-colonial African states and peoples. Also listed as HIST 80. Credit given in either area, not both. NR
Portuguese

PORT 1
ELEMENTARY PORTUGUESE
5 Units; 5 hours lecture
Transfers: CSU, UC
Corequisite: PORT 901
Recommended Preparation: College-level reading ability
Designed to develop the fundamentals of communicative competence in colloquial Portuguese. The emphasis is on listening, comprehension, and conversational skills. Early reading and writing skills are introduced, as well as fundamental aspects of culture. Equivalent to two years high school Portuguese. NR

PORT 2
ELEMENTARY PORTUGUESE
5 Units; 5 hours lecture
Transfers: CSU, UC
Prerequisite: PORT 1 or two years of high school Portuguese
Corequisite: PORT 902
Designed to further the fundamentals of communicative competence in daily spoken Portuguese. Although the focus remains on listening comprehension and speaking, reading and writing skills will be expanded. This course continues the familiarization with customs and cultural achievements begun in the previous semester. NR

PORT 3
INTERMEDIATE PORTUGUESE
5 Units; 5 hours lecture
Transfers: CSU, UC
Prerequisite: PORT 2 or three years of high school Portuguese
Corequisite: PORT 903
Intermediate level course focuses on fluency in reading, writing, speaking, and listening. Continues the study of Portuguese speaking cultures. NR

PORT 4
INTERMEDIATE PORTUGUESE
5 Units; 5 hours lecture
Transfers: CSU, UC
Prerequisite: PORT 3 or four years of high school Portuguese
Corequisite: PORT 904
Emphasizes fluency in speaking, reading, writing, and comprehension of Portuguese. Includes selected readings and discussions from the basic four GenEs in Portuguese speaking countries, literature, culture, and customs. NR

PORT 21
INTRODUCTION TO PORTUGUESE AND BRAZILIAN CULTURE
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: College-level reading ability
A lecture and discussion course covering a variety of aspects of Portuguese and Brazilian culture: geography, history, literature, art, music, philosophy, and customs. Conducted in English. No prior study of Portuguese language or Portuguese and/or Brazilian culture required. NR

PORT 901
PORTUGUESE LANGUAGE LAB
0.25 Unit; 1 hour learning center
Corequisite: PORT 1
Requires concurrent enrollment in Portuguese 1. Enhances and provides practice in skills learned in Portuguese 1 course. NR

PORT 902
PORTUGUESE LANGUAGE LAB
0.25 Unit; 1 hour learning center
Corequisite: PORT 2
Requires concurrent enrollment in Portuguese 2. Enhances and provides practice in skills learned in Portuguese 2 course. NR

PORT 903
PORTUGUESE LANGUAGE LAB
0.25 Unit; 1 hour learning center
Corequisite: PORT 3
Requires concurrent enrollment in Portuguese 3. Enhances and provides practice in skills learned in Portuguese 3 course. NR

PORT 904
PORTUGUESE LANGUAGE LAB
0.25 Unit; 1 hour learning center
Corequisite: PORT 4
Requires concurrent enrollment in Portuguese 4. Enhances and provides practice in skills learned in Portuguese 4 course. NR

Psychology

PSYC 1
INTRODUCTION TO PSYCHOLOGY
3 Units; 3 hours lecture
Transfers: CSU, UC
An introduction to historical and contemporary psychological research and thought. Topics will include biological psychology, perception, consciousness, memory, language, problem solving, intelligence, emotions, personality, psychotherapy, social psychology, and development. Emphasis will be placed on the science of psychology and the ways psychological science has impacted our understanding of human nature as well as animal and human behavior. NR

PSYC 2
RESEARCH METHODS IN PSYCHOLOGY
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU, UC
Prerequisite: PSYC 1 and PSYC 44 or MATH 10
Introduction to basic research methods in psychology and the use of the scientific method to answer questions about behavior. Theoretical and applied research methods will be covered, with emphasis on critical analysis of experimental research design and data interpretation. NR

PSYC 3
BIOLOGICAL PSYCHOLOGY
4 Units; 4 hours lecture
Transfers: CSU, UC
Prerequisite: PSYC 1
Introduction to the study of behavior from a biological perspective. Neuroanatomy, neurophysiology, psychopharmacology, and the biological systems and processes underlying behavior. Emphasis will be placed on brain mechanisms underlying behavior and their relation to issues in psychology. NR

PSYC 4
INTRODUCTION TO COGNITIVE PSYCHOLOGY
3 Units; 3 hours lecture
Transfers: CSU, UC
An introduction to the basic concepts and experimental study of cognitive psychology. Includes topics related to higher mental procedures such as pattern recognition, perception, memory, thinking, problem solving, and comprehension of language. NR
PSYC 5
PSYCHOLOGICAL ASPECTS OF HUMAN SEXUALITY
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: PSYC 1
Examines the fundamentals of the development and practice of sexuality in the human being and the historical, psychological, and psychosocial aspects of human sexuality from childhood to old age, including human sexual anatomy, fulfillment differences among the sexes, sexual dysfunction and corrective therapy. NR

PSYC 7
DEVELOPMENTAL PSYCHOLOGY: CHILDHOOD THROUGH ADOLESCENCE
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: PSYC 1
Focuses on the major theoretical viewpoints and research approaches in the field of developmental psychology. Covers developmental stages of children from conception through adolescence focusing on children's social, emotional, cognitive, and physical development. NR

PSYC 16
INTRODUCTION TO CROSS-CULTURAL PSYCHOLOGY
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: PSYC 1
An introduction to the field of cross-cultural psychology. Focuses on the social and psychological impact of race, ethnicity, culture, gender, and disability. Special emphasis is given to research on African American, Latina/o, Asian American, Native American, Middle Eastern American, and Jewish cultures among other minority groups in America. Topics include stereotyping, institutional racism and discrimination, "reverse discrimination", ageism, and sexism. NR

PSYC 21
THE PSYCHOLOGY OF WOMEN
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: PSYC 1
Introduction to the psychology of women. Topics include gender similarities and differences and gender roles, including psychological, biological, and social origins. Covered are contemporary social issues. Throughout the course there will be emphasis on how psychology has studied women and the ways scientific and cultural assumptions about the sexes are reflected in psychological research. NR

PSYC 30
SOCIAL PSYCHOLOGY
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: PSYC 1 or SOC 1
Introduction to phenomena related to social behavior and social influences on behavior. Topics include social perception and cognition, personality, attitudes and attitude change, attraction, altruism, aggression, interpersonal influence, social norms and group processes. Also listed as SOC 30. Credit given in either area, not both. NR

PSYC 33
PSYCHOLOGY OF ADJUSTMENT
3 Units; 3 hours lecture
Transfers: CSU, UC
Study of the processes involved in adjustment of individuals to their personal and social environments; focuses on different psychological perspectives and theoretical foundations and how these are applied across a person’s life taking into account the influence of factors such as culture, gender, ethnicity, historical cohort, and socio-economic status. A broad understanding of how scientists, clinicians, and practitioners study and apply psychology is emphasized. NR

PSYC 37
ABNORMAL BEHAVIOR
3 Units; 3 hours lecture
Transfers: CSU, UC
Prerequisite: PSYC 1
An introduction to the symptoms, causes, treatment and prevention of psychological disorders including anxiety disorders, personality disorders, psychophysiological disorders, psychoses, substance use disorders, sexual disorders, eating disorders and organic disorders. NR

PSYC 44
STATISTICS FOR THE BEHAVIORAL SCIENCES
3 Units; 3 hours lecture
Transfers: CSU, UC
Prerequisite: MATH 253
Introduces psychology and behavioral science majors to descriptive and inferential statistical methods. Knowledge of these methods is essential to the understanding, interpretation, and performance of scientific research. Topics covered include probability theory, hypothesis testing, correlation, analysis of variance, the graphical representation of data, basic research design, and the use of computer software to perform statistical analyses. (formerly PSYC 144). NR

PSYC 125
PSYCHOLOGY OF AGING
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: PSYC 1
Focuses on old age and introduces the theoretical and methodological issues in the field of gerontology, while dispelling the myths that often accompany older adulthood. Throughout the course, the psychological, physiological, and social changes that often accompany older adults will be discussed. Social issues that older adults often face will be addressed, while discussing the societal implications of an aging population. Death and dying will also be covered. NR

PSYC 140
INTRODUCTION TO PSYCH AS A MAJOR AND PROFESSION
1.5 Units; 1.5 hours lecture
Transfers: CSU
Introduces students to the broad major of psychology and its related professions. Focus is on the many possible types of psychologists and activities performed by these individuals. The course is designed especially for students at the sophomore level who has completed an introductory psychology course and is seeking further information before deciding upon psychology as a potential major or career field. NR
Real Estate

RE 170
REAL ESTATE PRINCIPLES
3 Units; 3 hours lecture
Transfers: CSU
The fundamental real estate course covering the basic laws and principles of California real estate. Required by the CA BRE (Bureau of Real Estate) for those preparing for the state salesperson's exam, and serves as an elective for those preparing for the state broker's exam. For professionals, consumers, and investors. NR

RE 172
REAL ESTATE PRACTICE
3 Units; 3 hours lecture
Transfers: CSU
A foundational real estate course covering day-to-day operations in real estate sales and brokerage, including: Listing, prospecting, advertising, financing, sales techniques, and escrow. Required course for Salesperson's and Broker's license by CA BRE (Bureau of Real Estate). For professionals, consumers, and investors. NR

RE 174
LEGAL ASPECTS OF REAL ESTATE
3 Units; 3 hours lecture
Transfers: CSU
A study of California real estate law, including consumer rights, agency, and contracts, probate proceedings, trust deeds, and foreclosures, as well as recent legislation governing real estate transactions. Applies toward State's elective educational requirements for the Real Estate Salesperson License. Applies toward state's core educational requirements for the broker's examination. Applies toward Bureau of Real Estate (BRE) basic education. For professionals, consumers, and investors. NR

RE 175
REAL ESTATE FINANCE
3 Units; 3 hours lecture
Transfers: CSU
Analysis of real estate financing, including lending policies and problems in financing transactions in residential properties. Methods of financing properties are emphasized. Applies toward state's elective educational requirements for the Real Estate Salesperson's License. Applies toward state's core educational requirements for the broker's examination. Applies toward Bureau of Real Estate (BRE) basic education. For consumers, professionals, and investors. NR

RE 176A
REAL ESTATE APPRAISAL I
3 Units; 3 hours lecture
Transfers: CSU
Introduction to residential real estate appraisal. Applies toward Bureau of Real Estate (BRE) State's elective educational requirements for the Real Estate salesperson's examination. Applies toward BRE state core educational requirements for the broker's exam. Applies toward 50 hours of Bureau of Real Estate Appraisers (BREA) credit. For consumers, professionals, and investors. NR

RE 176B
REAL ESTATE APPRAISAL II
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: RE 176A
An advanced course in real estate appraisal with emphasis on investment-property appraisal. Includes the appraisal of certain types of apartment properties. Concepts of loan appraisal and various methods of appraisal are delineated and are included in a student project. Applies toward state's core educational requirements for the broker's examination and toward basic and continuing educational hours of Bureau of Real Estate Appraisers (BREA) credit. NR

RE 176C
REAL ESTATE APPRAISAL III: MARKET ANALYSIS AND STUDIES
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: 176B
An advanced course in real estate appraisal to evaluate the productive attributes of parcels of real estate as they relate to the demand for a particular use and supply of competitive properties within a specified market. The student will learn the process of property analysis through the study of property productivity, supply and demand factors, and comparative analysis. Focus is placed on the role of market analysis and highest and best use analysis in decision making and evaluation. Counts toward 50 hrs BREA. NR

RE 178
REAL ESTATE ECONOMICS
3 Units; 3 hours lecture
Transfers: CSU
Covers the impact of national, regional, and local trends on real estate values. Includes the role of the government in the economy and how that role affects real estate issues, cycles, business fluctuations, credit markets, real property taxation concepts, land use controls, development of real property, and limitations imposed on real estate markets. Applies toward state’s elective educational requirements for the Real Estate Salesperson License. Applies toward state’s core educational requirements for the broker’s exam. For consumers, professionals, and investors. NR

RE 190
ESCROW
3 Units; 3 hours lecture
Transfers: CSU
Provides students with a real-life application of the steps in a real estate sale including completing and reviewing the California Association of Realtors (C.A.R.) Joint Purchase Agreement and Escrow Instructions, reviewing the Preliminary Report and solving title problems, learning lenders’ closing requirements and the recording process, and balancing and figuring the settlement of the closing funds. Applies toward the State’s elective educational requirements for the Real Estate Salesperson license and toward the requirements for the broker’s examination. Letter grade of “C” or above applies toward the requirements of California Escrow Association professional designation. For consumers, investors, and professionals. NR
RE 195
PROPERTY MANAGEMENT
3 Units; 3 hours lecture
Transfers: CSU
Recommended Preparation: RE 170
Professional management of residential, commercial, retail, and industrial properties: organization, staffing, marketing, accounting, operations, maintenance, landlord/tenant relations. Addresses antitrust, disclosure, tenant screening, antidiscrimination, employment, land use, and environmental laws and compliance therewith. Excellent preparation for the real estate practitioner wishing to specialize in property management. Applies toward California’s elective educational requirements for the Real Estate Salesperson License and Broker license. NR

RE 200
UNIFORM STANDARDS OF PROFESSIONAL APPRAISAL PRACTICE (USPAP)
1.5 Units; 1.5 hours lecture
A 15 hour National Uniform Standards of Professional Appraisal Practice (USPAP) course developed by the Appraisers Qualification Board (AQB) of The Appraisal Foundation. Emphasizes professional appraisal standards and the basic rules of competent performance and ethical behavior required for appraisers. Taught by an experienced AQB Certified USPAP Instructor/Certified Real Estate Appraiser. Approved for 15 hours of pre-licensing appraisal education by the CA Bureau of Real Estate Appraisers (BREA) and for 14 Hours of continuing education by the BREA. Cannot be used as a substitute for the 7-Hour USPAP Update course. Satisfies the appraisal education requirements for the Trainee License from the BREA upon completion of RE 176A/B/C. NR

RE 202
COMPUTER APPLICATIONS IN REAL ESTATE
3 Units; 3 hours lecture
Provides real estate assistants, real estate agents or soon-to-be agents, and other real estate professionals with the information needed to use the technologies currently employed in the real estate industry. Covers web applications, social media marketing technologies, web sites, email, mobile devices, MLS, digital cameras, virtual tours, Winforms, and other current technologies. Applies toward CA Bureau of Real Estate (BREA) Salesperson’s and Broker’s exam elective requirements. For consumers, professionals, and investors. NR

RE 250
REAL ESTATE LICENSE PREPARATION
3 Units; 3 hours lecture
Recommended Preparation: For Sales License: RE 170, 172 and one Real Estate elective. For Broker License: The eight broker courses. See www.bre.ca.gov
Real estate licensure preparation. Fundamental information regarding practice of real estate with emphasis on real estate law, principles, practice, and other topics covered in the state licensure examination. Important preparation for those intending to take the California real estate salesperson’s or broker’s license examination. NR

RE 280
MORTGAGE LOAN BROKERING AND LENDING
3 Units; 3 hours lecture
Introduces the principles and operations of the mortgage loan brokering field. The emphasis is on the lending rules for residential property. Students learn lending laws of Regulation Z, usury laws, disclosures, maximum fees and charges, agency relationships, advertising laws, HUD/RESPA calculations, and the loan process. Satisfies the elective requirements for the California Real Estate Salesperson’s and Broker’s licenses. For consumers, professionals, and investors. NR

SL 2
AMERICAN SIGN LANGUAGE II
4 Units; 4 hours lecture
Transfers: CSU, UC
Prerequisite: SL 1 with a grade of "C" or better
Continuing study of American Sign Language (ASL) fundamentals emphasizing comprehension skills, intermediate grammatical structures, beginning practice in expressive aspects of the language, and exposure to deaf culture. Provider-approved by the California Board of Registered Nursing, Provider Number CEP60. NR

SL 3
AMERICAN SIGN LANGUAGE III
4 Units; 4 hours lecture
Transfers: CSU, UC
Prerequisite: SL 2 with a grade of "C" or better
Continuation of American Sign Language (ASL) shifting focus from comprehension to sign production. Includes advanced grammatical structures, with emphasis on advanced expressive skills. Provider-approved by the California Board of Registered Nursing, Provider Number CEP60. NR

SL 4
AMERICAN SIGN LANGUAGE IV
4 Units; 4 hours lecture
Transfers: CSU, UC
Prerequisite: SL 3 with a grade of "C" or better
Emphasizing advanced expressive/conversational skills in American Sign Language (ASL). Develops fluency and a continued focus on grammatical and cultural features. Provider-approved by the California Board of Registered Nursing, Provider Number CEP60. NR

Sign Language

SL 1
AMERICAN SIGN LANGUAGE I
4 Units; 4 hours lecture
Transfers: CSU, UC
Recommended Preparation: Eligibility for ENG 1A
Beginning study of American Sign Language (ASL) fundamentals emphasizing comprehension skills, basic information relating to Deaf culture, and beginning grammatical structure. Provider-approved by the California Board of Registered Nursing, Provider Number CEP60 for 30 contact hours. Equivalent to 2-year high school ASL. NR

SL 101
DEAF CULTURE AND ITS HISTORY
3 Units; 3 hours lecture
Transfers: CSU
Designed for those interested in sociology of deafness as it relates to the culture of people in the community. Emphasizes the history and evolution of education of the Deaf community. NR
Sociology

SOC 1
INTRODUCTION TO SOCIOLOGY
3 Units; 3 hours lecture
Transfers: CSU, UC
Introduction to the core concepts and theories of sociology. Topics include social institutions, culture, human behavior and relationships, social forces, socialization, social class, social inequality, and sociological change.
SOCI 110. NR

SOC 2
SOCIAL PROBLEMS
3 Units; 3 hours lecture
Transfers: CSU, UC
Emphasis on the extent, causes, and consequences of a number of social problems including: poverty, juvenile delinquency, family disorganization, gender inequality, and race relations. Course includes a Service Learning requirement.
SOCI 115. NR

SOC 6
INTRODUCTION TO ASIAN CULTURES IN THE UNITED STATES
3 Units; 3 hours lecture
Transfers: CSU, UC
Compares the diverse experiences of Asian Americans, including the sociological, psychological, and historical backgrounds of Japanese, Chinese, Korean, Filipino, Asian Indian, and Vietnamese Americans. Includes immigration history, cultural practices, beliefs, gender perception, family life, religion, politics, prejudice, discrimination, assimilation, economic and educational success, and the changing roles of Asian Americans within American society. NR

SOC 10
INTRODUCTION TO MARRIAGE AND THE FAMILY
3 Units; 3 hours lecture
Transfers: CSU, UC
Emphasizes the sociological perspective of marriage and the family including the family as a social institution, kinship systems, mate selection, marital roles, child-rearing practices, and social change and the effects on marriage and the family. NR

SOC 15
SOCIALIZATION OF THE CHILD
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation:
SOC 1
The sociological study of the main institutions which socialize the child, such as the family, peer groups, education, child care, community, and the media. Other topics include: social theory, parenting, culture, religion, economics, politics, and social change.
NR

SOC 20
ETHNIC CULTURES OF THE UNITED STATES
3 Units; 3 hours lecture
Transfers: CSU, UC
A general overview of the sociological, psychological, and historical background of selected ethnic groups in the United States. Topics include social, political, and economic factors as well as intergroup relationships, prejudice, discrimination, affirmative action, immigration, assimilation, and social change. Also listed as HIST 20. Credit given in either area, not both. NR

SOC 21
WOMEN IN CONTEMPORARY SOCIETY
3 Units; 3 hours lecture
Transfers: CSU, UC
An introductory survey of the lives, roles, and status of women in contemporary American society. The cultural, social, psychological, and economic conditions of women will be explored. Topics include life-cycle, sex role socialization, intimate relationships, the family, self-image, female, health and sexuality, crime and deviance, work, religion, politics, and cultural diversity. NR

SOC 25
SOCIAL STRATIFICATION
3 Units; 3 hours lecture
Transfers: CSU, UC
An examination of the American social class structures and their functions. Different styles of life, determinants of class status, social mobility, social inequality, and changes in class systems are discussed and evaluated. Specific dimensions of social stratification discussed are economic and social class status, race and ethnicity, gender, sexual orientation, political participation and power, and global stratification. Specific consequences of social status are evaluated. Both a macro and micro analysis will be applied to social stratification and its consequences on society and the individual. NR

SOC 30
SOCIAL PSYCHOLOGY
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation:
PSYC 1 or SOC 1
Introduction to phenomena related to social behavior and social influences on behavior. Topics include social perception and cognition, personality, attitudes and attitude change, attraction, altruism, aggression, interpersonal influence, social norms and group processes. Also listed as PSYC 30. Credit given in either area, not both. NR
SOC 125
SOCIOLOGY OF AGING
3 Units; 3 hours lecture
Transfers: CSU
Examines age as a social construct and aging as a social process. Course explores the effects of social institutions and social norms on the aging individuals. Topics covered are: the study of aging, ageism, sociological theories/perspectives of aging, current social research on issues of aging, views of aging in other societies past and present, demographics of the aging population, the life course, race and ethnicity, the healthcare system, retirement and work, gender inequalities, housing and transportation, recreation and leisure, family life, and politics and social policies. Particular attention to the sociological perspective of the aging process will be investigated. NR

SOC 126
DEATH AND DYING
3 Units; 3 hours lecture
Transfers: CSU
Provides a background on historical and contemporary perspectives on death and dying. Course focuses on the social, political, and cultural and cross-cultural meanings and practices regarding death in the United States. Topics include: attitudes, beliefs, and meanings of death and dying through the life course, the American experience of death, sociological theoretical perspectives, the dying process, living with dying, the American Health Care System, hospice care, end-of-life decisions, suicide, types of death, euthanasia and biomedical issues, bereavement, grief, mourning, the funeral process, legal and business aspects of dying, cultural norms, and dealing with the death of a loved one. NR

SOC 180
INTRODUCTION TO GERONTOLOGY
3 Units; 3 hours lecture
Transfers: CSU
Provides an introduction to the interdisciplinary field of gerontology through biological, psychological, and sociological perspectives. The area of focus is on the adult years of the life span. Topics include: the aging process, growth of the older population, cultural differences, consequences of physical aging, health and well-being, mental health, sexuality, social support networks, caregiving, social interactions, role changes, death and dying, and social policies affecting elders. NR

SPAN
Spanish
SPAN 1
ELEMENTARY SPANISH
5 Units; 5 hours lecture
Transfers: CSU, UC
Recommended Preparation: College-level reading ability
Designed to develop the fundamentals of communicative competence in colloquial Spanish. The emphasis is on listening, comprehension, and conversational skills. Early reading and writing skills are introduced, as well as fundamental aspects of culture. Equivalent to two years high school Spanish. NR

SPAN 2
ELEMENTARY SPANISH
5 Units; 5 hours lecture
Transfers: CSU, UC
Prerequisite: SPAN 1 or two years of high school Spanish
Designed to further the fundamentals of communicative competence in daily spoken Spanish. Although the focus remains on listening comprehension and speaking, reading and writing skills will be expanded. Continues the familiarization with customs and cultural achievements begun in the previous semester. NR

SPAN 3
INTERMEDIATE SPANISH
5 Units; 5 hours lecture
Transfers: CSU, UC
Prerequisite: SPAN 2 or four years of high school Spanish
Intermediate level course focuses on fluency in reading, writing, speaking, and listening. Includes selected readings and discussions from poetry, short stories, and essays in Hispanic, and Hispanic-American literature, culture and customs. NR

SPAN 4
INTERMEDIATE SPANISH
5 Units; 5 hours lecture
Transfers: CSU, UC
Prerequisite: SPAN 3 or four years of high school Spanish
Emphasizes fluency in speaking, reading, writing, and comprehension of Spanish. Includes selected readings and discussions from the basic four geNRes in Hispanic and Hispanic-American literature, culture, and customs. NR

SPAN 6
INTERMEDIATE SPANISH GRAMMAR AND COMPOSITION
3 Units; 3 hours lecture
Transfers: CSU, UC
Prerequisite: SPAN 4
Brief review and intensive practice of fundamentals of Spanish grammar followed by study and application of advanced grammatical concepts. Practice in writing essays and summaries in Spanish based on a variety of topics and sources. Continues to refine speaking and listening skills. NR

SPAN 10
INTERMEDIATE CONVERSATIONAL SPANISH
3 Units; 3 hours lecture
Transfers: CSU, UC
Prerequisite: SPAN 2 or three years of high school Spanish
Designed to develop fluency in Spanish. The emphasis is on both formal and informal expression and conversation in Spanish. NR

SPAN 20A
CIVILIZATION OF SPAIN THROUGH 1898
3 Units; 3 hours lecture
Transfers: CSU, UC
Prerequisite: SPAN 2 or three years of high school Spanish
Focuses on the geography, history, and institutions of Spain, life and culture of the people, literature, music, and art through 1898. Conducted in Spanish. NR

SPAN 20B
CIVILIZATION OF SPAIN 1898 TO PRESENT
3 Units; 3 hours lecture
Transfers: CSU, UC
Prerequisite: SPAN 2 or three years of high school Spanish
Focuses on the geography, history, and institutions of Spain, life and culture of the people, literature, music, and art from 1900 to present. Conducted in Spanish. NR

SPAN 21A
CIVILIZATION OF LATIN AMERICA THROUGH 1900
3 Units; 3 hours lecture
Transfers: CSU, UC
Prerequisite: SPAN 2 or three years of high school Spanish
Focuses on the geography, history, and institutions of Latin America, life and cultures of the people, literature, music, and art through 1900. Conducted in Spanish. NR
Special Services

SPS 115 ALTERNATIVE LEARNING STRATEGIES
3 Units; 3 hours lecture
Transfers: CSU
Provides students with learning disabilities an opportunity to identify their individual learning styles and to develop effective individualized study and test-taking strategies. The course introduces disability terms and concepts and various learning modes and encourages students to explore alternative learning strategies and study techniques. NR

SPS 205 COLLEGE AWARENESS AND SUCCESS STRATEGIES
2 Units; 2 hours lecture
Designed to help students with disabilities achieve goals and improve self-understanding and self-advocacy/communication skills. Includes college success strategies, legal rights and responsibilities, ethics, making wise choices, creating academic plans and utilizing available supportive resources. NR

SPS 300 EDUCATIONAL PLANNING, ASSESSMENT, AND ORIENTATION
0 Unit; 0.5 hours lab
Recommended Preparation: Conference with Special Services counselor or specialist
Designed to assess and evaluate educational, cognitive and/or communication performance and achievement levels for students with disabilities. Develop the student education contract/plan and determines appropriate accommodations for learning. Orientation to supportive services and specialized learning outcomes. Offered on an open-entry/open-exit basis. NR

SPS 310 MEMORY AND ATTENTION SKILLS
3 Units; 3 hours lecture
Designed to provide students with disabilities an understanding of how the memory system is organized and how it works. The relationship between attention and memory is addressed and factors impacting these skills recognized. Students will identify individual attention and memory difficulties and learn practical strategies to compensate for deficits. NR

SPS 315 LEARNING DEVELOPMENT PRACTICUM
1.5 Units; 3 hours lab
Designed as specialized prescriptive instruction based on individual needs focusing on basic skills development. Structured for the student with learning disabilities and is offered on an open-entry/open-exit, credit/no-credit basis. This course is offered on a pass/no-pass basis. NR

SPS 316 SUCCESS STRATEGIES FOR BASIC MATHEMATICS
1 Unit; 1 hour lab
Designed for those needing support and instruction in test taking, study skills, organization, critical thinking and self-management while enrolled in a basic or developmental arithmetic course. Awareness of anxiety and stress management techniques will be discussed in addition to specific learning strategies (note-taking, reading a text book, test-taking, etc) as they apply to mathematics. Provides support in test-taking, study skills, organization, critical thinking and self-management while enrolled in basic/developmental math. Awareness of anxiety and stress management techniques will be discussed in addition to specific learning strategies (note-taking, reading a text book, test-taking, etc) as they apply to situations commonly occurring in a basic arithmetic course. NR

SPS 325 BASIC COMPUTATIONAL SKILLS
3 Units; 3 hours lecture
Recommended Preparation: Conference with Special Services counselor or specialist
Designed for students with learning disabilities who need to review the basics of mathematical computation. Course topics include learning and compensatory strategies in relation to basic computation, including whole numbers, fractions, decimals, percents, ratios and proportions. NR

SPS 330 WRITING DEVELOPMENT PRACTICUM
3 Units; 3 hours lecture
Designed as specialized prescriptive instruction based on diagnosis of individual need in the specific area of written communication. Structured for the student with specific learning disabilities. This course is offered on a pass/no-pass basis. NR

SPS 340 VOCABULARY STRUCTURE FOR READING AND SPELLING
3 Units; 3 hours lecture
Designed as specialized prescriptive instruction based on diagnosis of individual need in the specific areas of spelling and reading. Structured for the student with learning disabilities. This course is offered on a pass/no-pass basis. NR

SPS 360 ADAPTED COMPUTER ACCESS LAB
1 Unit; 2 hours lab
Recommended Preparation: Verification of disability and/or diagnostic assessment. Ability to work independently with access technology.
Provides supervised hands-on opportunities to acquire and reinforce skills using computers, software, and access technology for students with disabilities. This course is offered on an open-entry/open-exit, credit/no-credit basis. NR
Speech

SP 1
COMMUNICATION FUNDAMENTALS
3 Units; 3 hours lecture
Transfers: CSU, UC
Designed to enable the student to understand and use the processes of communication in the making of personal and social decisions in everyday life, including an understanding of problems and propositions, organizations and development of thought processes; support of ideas; and methods of research, criticism and evaluation. Platform speaking experience will be required. NR

SP 2
PERSUASION
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: SP 1 and/or ENG 1A/1AH with a grade of "C" or better
Examines the components of persuasive messages with focus upon ethics, logic, reasoning, and fallacies as they relate to the use of evidence, speaker credibility, and emotional appeals directed toward various types of audiences. A minimum of two persuasive speech claims will be developed through a series of written outlines, essays, and manuscripts. NR

SP 3
ARGUMENTATION AND DEBATE
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: SP 1 and/or ENG 1A with a grade of "C" or better
Focuses on the application of argumentative methods, analysis, sound reasoning, and critical thinking. Through participation in two types of debates on current topics and writing a series of persuasive essays totaling eight to ten thousand words, students will research, formulate propositions, and discover culturally diverse issues as they apply to social and personal decision-making. NR

SP 5
INTERPERSONAL COMMUNICATION
3 Units; 3 hours lecture
Transfers: CSU, UC
Introduction to strategies and behaviors in all aspects of the interpersonal communication process. Includes study of self concept, relationships, perception, listening, verbal and non-verbal communication. NR

SP 8
GENDER COMMUNICATION
3 Units; 3 hours lecture
Transfers: CSU, UC
Focuses on the interactive relationships between gender and communication designed to enable the student to better understand how communication takes place between men and women in various settings. Includes verbal and nonverbal aspects of communication; social and cultural expectations and roles; and problem analysis and decision-making specific to gender conflict. Enables students to appreciate gender differences and to listen and interact more effectively. NR

SP 20
INTERCULTURAL COMMUNICATION
3 Units; 3 hours lecture
Transfers: CSU, UC
Designed to reveal how culture influences interaction patterns. Includes the theory and the process of communicating with people across cultural, ethnic, and racial divides, interaction in various contexts such as interpersonal relationships, small groups, and work environments. NR

SP 30
INTRODUCTION TO ORAL INTERPRETATION
3 Units; 3 hours lecture
Transfers: CSU, UC
Survey of prose, poetry, and drama. Focuses on the analysis and criticism of literature, examines various interpretive theories within the context of the period written. Students will present and perform literary selections. Students are limited to a combined total of four enrollments in SP 30 and SP 32. NR

SP 32
INTERPRETERS' THEATRE
3 Units; 3 hours lecture
Transfers: CSU, UC
Recommended Preparation: SP 30
Stressing the techniques of script preparation, direction, and staging of literature. Coursework will culminate in a student-performed and directed Interpreters' Theatre. Students are limited to a combined total of four enrollments in SP 30 and SP 32. NR

SP 106
FORENSICS ACTIVITY
1 Unit; 1 hour lecture; 1 hour lab
2 Units; 1 hour lecture; 3 hours lab
3 Units; 1 hour lecture; 6 hours lab
Transfers: CSU
Emphasizes preparation and presentation of materials for college-sponsored speech and forensic activities, tournaments and festivals, high-school assemblies, and civic organizations. Events include debate, public speaking, and oral interpretation of literature. Participation is required for credit. Offered as open-entry/open-exit. R-E-3

Theatre Arts

TA 1
FUNDAMENTALS OF ACTING
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU, UC
Fundamentals of acting establishes a working vocabulary and basic skills of the acting process. Through exercises and improvisations, the actor explores imagination as the actor’s primary resource and the basic approach to text through action. Students are limited to a combined total of four enrollments in TA 1, 2, 3, and 4. NR

TA 2
SCENE STUDY I
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU, UC
Prerequisite: TA 1
Focuses on beginning scene study with an emphasis on exploring action/objective, characterization, and ensemble performance, working toward a realization of method of approach. Students are limited to a combined total of four enrollments in TA 1, 2, 3, and 4. NR
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Prerequisites</th>
<th>Transfers</th>
<th>Limitation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA 10</td>
<td>MUSICAL THEATRE TECHNIQUES</td>
<td>3</td>
<td>2</td>
<td>3</td>
<td></td>
<td>CSU, UC</td>
<td>Audit or interview</td>
<td>Emphasizes the preparation of serious dramatic productions for public performance, including acting, technical, and production management. Open-entry/open-exit course. Students are limited to a combined total of four enrollments in TA 15, 16, 17, 18, 19, 113, and 125. R-E-3</td>
</tr>
<tr>
<td>TA 11</td>
<td>STAGE MOVEMENT</td>
<td>3</td>
<td>2</td>
<td>3</td>
<td></td>
<td>CSU, UC</td>
<td>Audit or interview</td>
<td>Designed to assist students in using their physical movements to embellish and augment characterization. Principles of mime and pantomime will supplement the concepts of psychological and physical sources of movement. Students are limited to a combined total of four enrollments in TA 11, 35, 136, and 290. NR</td>
</tr>
<tr>
<td>TA 12</td>
<td>DIRECTING</td>
<td>3</td>
<td>3</td>
<td></td>
<td>TA 2</td>
<td>CSU, UC</td>
<td>Audit or interview</td>
<td>An introduction to the role of the director in modern theatrical production. Study of the director's interpretation of dramatic literature, with emphasis on the communication of intellectual and emotional concepts through composition, picturization, movement, and rhythm. NR</td>
</tr>
<tr>
<td>TA 13</td>
<td>SCENE STUDY II</td>
<td>3</td>
<td>2</td>
<td>3</td>
<td></td>
<td>CSU, UC</td>
<td>Audit or interview</td>
<td>Further study in the application of the given circumstances to a text and the development of characterization. Performing scenes from the plays of Ibsen, Chekhov, and Pinter is stressed. Students are limited to a combined total of four enrollments in TA 1, 2, 3, and 4. NR</td>
</tr>
<tr>
<td>TA 14</td>
<td>ACTING STYLES I</td>
<td>3</td>
<td>2</td>
<td>3</td>
<td></td>
<td>CSU, UC</td>
<td>Audit or interview</td>
<td>Devoted to the training of classical styles, including Greek, Romanesque, Elizabethan, and Commedia del Arte. Students are limited to a combined total of four enrollments in TA 1, 2, 3, and 4. NR</td>
</tr>
<tr>
<td>TA 15</td>
<td>REHEARSAL AND PERFORMANCE: DRAMA</td>
<td>2</td>
<td>6</td>
<td></td>
<td></td>
<td>CSU, UC</td>
<td>Audit or interview</td>
<td>Emphasizes the preparation of comic productions for public performance, including acting, technical, and production management. Open-entry/open-exit course. Students are limited to a combined total of four enrollments in TA 15, 16, 17, 18, 19, 113, and 125. R-E-3</td>
</tr>
<tr>
<td>TA 16</td>
<td>REHEARSAL AND PERFORMANCE: COMEDY</td>
<td>2</td>
<td>6</td>
<td></td>
<td></td>
<td>CSU, UC</td>
<td>Audit or interview</td>
<td>Emphasizes the preparation of comic productions for public performance, including acting, technical, and production management. Open-entry/open-exit course. Students are limited to a combined total of four enrollments in TA 15, 16, 17, 18, 19, 113, and 125. R-E-3</td>
</tr>
<tr>
<td>TA 17</td>
<td>REHEARSAL AND PERFORMANCE: MIXED GENRES</td>
<td>2</td>
<td>6</td>
<td></td>
<td></td>
<td>CSU, UC</td>
<td>Audit or interview</td>
<td>Emphasizes the preparation of comic productions of mixed genres for public performance including acting, technical, and production management. Open-entry/open-exit course. Students are limited to a combined total of four enrollments in TA 15, 16, 17, 18, 19, 113, and 125. R-E-3</td>
</tr>
<tr>
<td>TA 18</td>
<td>REHEARSAL AND PERFORMANCE: DANCE</td>
<td>1</td>
<td>3</td>
<td></td>
<td></td>
<td>CSU, UC</td>
<td>Audit or interview</td>
<td>Focuses on the relationship of theatre to various cultures throughout history and on the contributions of significant individual artists. Introduces students to elements of the production process, including playwrighting, acting, directing, design, and criticism. Students will survey different periods, styles, and genres of theatre through play reading, discussion, films, and viewing and critiquing live theatre. Requires attendance of theatre productions. NR</td>
</tr>
<tr>
<td>TA 19</td>
<td>THEATRE APPRECIATION</td>
<td>3</td>
<td>3</td>
<td></td>
<td></td>
<td>CSU, UC</td>
<td>Audit or interview</td>
<td>Introduces the student to the history and literature of the musical theatre from mid-19th century to present day. Explores the stylistic distinctions found in the musical as well as its social and cultural significance. Emphasis is placed on the contributions and influence of the individual writer, composer, or lyricist. NR</td>
</tr>
</tbody>
</table>
TA 25
THEATRE HISTORY: PRIMITIVE TO RENAISSANCE
3 Units; 3 hours lecture
Transfers: CSU, UC
Reading and discussion of representative plays from the major eras of world drama. Development of the play script in themes, characterization, and dramatic structure from primitive ritual through the great playwrights of Greece, Rome, and Medieval and Renaissance Europe. Consideration of philosophical and cultural backgrounds and production styles influencing the staging of the plays. NR

TA 26
THEATRE HISTORY: RENAISSANCE TO CONTEMPORARY
3 Units; 3 hours lecture
Transfers: CSU, UC
Reading and discussing significant plays selected from the major forms of world drama since the Renaissance. Emphasis on themes, characterization, and philosophical and cultural influences on content and production styles. NR

TA 35
VOICE AND DICTION
3 Units; 3 hours lecture
Transfers: CSU, UC
Emphasizing principles and practices in vocal and articulatory development and control, drills in phonation, resonance, and vocal variety, drills for clarity and ease in articulation. Begin to work on developing a dialect and heightened text. Students are limited to a combined total of four enrollments in TA 11, 35, 136, and 290. NR

TA 43
STAGE MAKE-UP
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU, UC
A study of theory and practice in make-up for the stage. Emphasis on the development of individual skill in techniques of character analysis, application in pigment, hair design, and selection and use of equipment. Crew assignment for college productions is required and will provide instruction in make-up techniques. NR

TA 108
AUDITION TECHNIQUES
3 Units; 2 hours lecture; 3 hours lab
Transfers: CSU
Emphasizes the process of auditions, cold readings, script analysis, interviews and unrehearsed scenes. Includes resume writing techniques, interview techniques and casting instruction for the actor. Students are limited to a combined total of four enrollments in TA 108, 211, and 214. NR

TA 110
CHICANA/O LATINA/O THEATRE
3 Units; 3 hours lecture
Transfers: CSU
Focusing on the evolution of Chicana/o Latina/o dramatic literature, course will analyze playwrights and theatre groups that express the Chicana/o Latina/o experiences in the United States, examining relevant "actos", plays, and documentaries to their contributions in the development of the Chicana/o Latina/o Theatre movement. NR

TA 113
REHEARSAL AND PERFORMANCE: CHILDREN'S THEATRE
2 Units; 6 hours lab
Limitation: Audition or interview
Transfers: CSU
Emphasizes the preparation of play production for the child audience for public performance. This course is open-entry/open-exit course. Students are limited to a combined total of four enrollments in TA 15, 16, 17, 18, 19, 113, and 125. R-E-3

TA 125
REHEARSAL AND PERFORMANCE: NEW WORKS – MUSICAL
2 Units; 6 hours lab
Transfers: CSU
Recommended Preparation: TA 10
Emphasizes the preparation of new work for the musical theatre. Character analysis, script analysis, and development of a new work or previously unpublished work. Class will culminate in a public 'staged reading' of a new theatrical work. Students are limited to a combined total of four enrollments in TA 15, 16, 17, 18, 19, 113, and 125. NR

TA 128
THEATRE, PERFORMANCE, AND CULTURE
3 Units; 3 hours lecture
Transfers: CSU
Theatre and cinema from a historical and cultural perspective. Explores how the theatre and performance of a culture are influenced by, and reflective of, the historical and cultural attributes of that culture. Performance may include, but is not limited to theatre, film, and media. NR

TA 136
ADVANCED VOICE AND DICTION
3 Units; 3 hours lecture
Transfers: CSU
Prerequisite: TA 35
Recommended Preparation: TA 1
A continuation of the work begun in Voice and Diction with application to classical text and accents. Continue to deepen understanding of vocal production and acquire additional tools for gaining mastery of the physical means of voice production. Begin putting the tools of IPA and diction work begun in TA 35 to more complex use in poems and classical literature. Practice exercises for centering the breath and body, locating and releasing tension, exploring pitch, tone, and range, developing a free and responsive voice. Solidify understanding of the International Phonetic Alphabet and use it for working with both classical texts and poems, as well as development of at least one foreign and one regional American accent. Students are limited to a combined total of four enrollments in TA 11, 35, 136, and 290. NR

TA 210
SCENE STUDY FOR AMERICAN MUSICAL THEATRE
3 Units; 2 hours lecture; 3 hours lab
Recommended Preparation: TA 10
Concentrates on scene study, characterization, song repertory, and ensemble performance in American musical theatre. Students are limited to a combined total of four enrollments in TA 10, 210, and 212. NR
TA 211
MUSICAL THEATRE AUDITION TECHNIQUES
3 Units; 2 hours lecture; 3 hours lab
Recommended Preparation: MUS 1, TA 10
Designed for students preparing to audition for musical theatre productions. Every aspect of the musical audition will be addressed, emphasizing music selection, preparation, and building of repertoire. Students are limited to a combined total of four enrollments in TA 108, 211, and 214. NR

TA 212
MUSICAL THEATRE MOVEMENT AND DANCE
3 Units; 2 hours lecture; 3 hours lab
Designed to give students understanding and practical knowledge of musical theatre movement and dance. Emphasis is on the understanding and execution of the fundamental skills basic to musical theatre and musical theatre dance. Includes history, audition techniques, and choreography of musical theatre movement and dance. Students are limited to a combined total of four enrollments in TA 10, 210, and 212. NR

TA 213
PUPPET-MAKING AND PERFORMANCE
1 Unit; 3 hours lab
Designed for theatre students, art students and teachers, psychologists, and those interested in puppetry. Tabletop puppets, hand puppets, rod puppets and string puppets will be covered. Students construct at least two puppets using additive sculpture techniques, body construction, painting, costuming, and wigging techniques. NR

TA 214
AUDITION AND INTERVIEW TECHNIQUES FOR KCATF AND URTA
1 Unit; 3 hours lab
Develops technical skills, acting skills and interview skills specific to participation in the Kennedy Center American Theatre Festival auditions and the University Resident Theatre Association auditions. Students are limited to a combined total of four enrollments in TA 108, 211, and 214. R-E-3

TA 250
SUMMER CONSERVATORY MUSICAL THEATRE
2 Units; 6 hours lab
Limitation: By audition only Specializing in musical theatre training as cast or an orchestra member for a specific theatrical production. Students are limited to a combined total of four enrollments in TA 250, 251, 252, 253, and 254. NR

TA 251
SUMMER CONSERVATORY MUSICAL THEATRE: PRODUCTION
2 Units; 6 hours lab
Recommended Preparation: ETT 40 or 142 Specializes in theatre production, stagecraft, lighting, sound, costumes, and make-up. Students are limited to a combined total of four enrollments in TA 250, 251, 252, 253, 254, and 255. NR

TA 252
SUMMER CONSERVATORY EARLY 20TH CENTURY MUSICAL THEATRE
2 Units; 6 hours lab
Limitation: By audition only Musical theatre training as a cast member for a theatrical production originally written and performed from 1900-1942. Students are limited to a combined total of four enrollments in TA 250, 251, 252, 253, 254, and 255. NR

TA 253
SUMMER CONSERVATORY MID 20TH CENTURY MUSICAL THEATRE
2 Units; 6 hours lab
Limitation: By audition only Specializes in musical theatre training as a cast member for a theatrical production originally written and performed from 1943-1966. Students are limited to a combined total of four enrollments in TA 250, 251, 252, 253, 254, and 255. NR

TA 254
SUMMER CONSERVATORY LATE 20TH CENTURY MUSICAL THEATRE
2 Units; 6 hours lab
Limitation: By audition only Specializing in musical theatre training as a cast member for a theatrical production originally written and performed from 1967-1999. Students are limited to a combined total of four enrollments in TA 250, 251, 252, 253, 254, and 255. NR

TA 255
SUMMER CONSERVATORY CONTEMPORARY MUSICAL THEATRE
2 Units; 6 hours lab
Limitation: By audition only Musical theatre training as a cast member for a theatrical production originally written and performed after 2000. Students are limited to a combined total of four enrollments in TA 250, 251, 252, 253, 254, and 255. NR

TA 290
ACTING FOR TELEVISION AND FILM
3 Units; 2 hours lecture; 3 hours lab
Principles and techniques of various performance methods involved in acting for television and motion pictures. Directed exercises and dramatic scenes (formerly TA 7). Students are limited to a combined total of four enrollments in TA 11, 35, 136, and 290. NR

Travel and Tourism

TOUR 250
INTRODUCTION TO TRAVEL & TOURISM
3 Units; 3 hours lecture
Introduction to the basics of the travel industry and its various avenues for an exciting career. Methods and practices for locating both domestic and international itineraries, routes, tariffs, and fares. Understanding travel industry documents for domestic and international itineraries. Documentation requirements and travel regulations will be covered. NR
TOUR 252
WORLD DESTINATIONS AND RESORTS – WESTERN HEMISPHERE
3 Units; 3 hours lecture
Provides knowledge of hotels, sightseeing and tourist attractions, geographical locations, and local transportation in major destinations within the Western hemisphere. Areas covered include the 48 contiguous United States, Alaska, Hawaii, Mexico, Canada, the Caribbean, the Bahamas and Bermuda Islands, and Central and South America. NR

TOUR 253
WORLD DESTINATIONS – EUROPE
3 Units; 3 hours lecture
Study sightseeing highlights, tourist attractions, currency, customs and local transportation in major destinations within the most visited countries of Europe. NR

TOUR 254
WORLD DESTINATIONS – PACIFIC, ASIA, AFRICA, MIDDLE EAST
3 Units; 3 hours lecture
Study accommodations, sightseeing highlights, tourist attractions, currency, customs and local transportation in countries most visited by American tourists in Africa, the Middle East, Asia, and the Pacific. NR

TOUR 255
SELLING DREAMS – THE TRAVEL INDUSTRY
3 Units; 3 hours lecture
Identifies the many segments of the Travel Industry including airlines, hotels, cruises, tours, car rentals, and rail. Summarizes their place and importance to the traveling public. Serves as an introduction into the travel industry and related positions and careers. Analyzes the differences between sales and marketing. Explores target marketing, demographics, how to sell, advertising, telephone sales, resume writing and interviewing. NR

TOUR 256
ADVANCED AIRLINE COMPUTER TRAINING
2 Units; 1 hour lecture; 3 hours lab
Recommended Preparation: TOUR 259
Designed for the advanced travel and tourism students with emphasis on advanced SABRE computer training, including invoice/itinerary and PHASE IV applications. NR

TOUR 257
TOURS AND CRUISES
3 Units; 3 hours lecture
Methods and practices for booking tours and cruises worldwide. Fundamentals of the tour and cruise industry, including various products and comparisons. NR

TOUR 259
AIRLINE COMPUTER TRAINING
2 Units; 1 hour lecture; 3 hours lab
Recommended Preparation: TOUR 250
Designed for advanced travel and tourism students with emphasis on basic SABRE computer training including P.N.R. (Passenger Name Record). NR

TU 100
FUNDAMENTALS OF TUTORING
2 Units 1 hour lecture 2 hours lab
Transfers: CSU
A general introduction to tutoring and skills needed to be an effective tutor. Includes theories of learning and practical applications. Training in learning styles, using questioning techniques, college resources, prioritizing feedback, and modeling will be provided. Individual differences in learning styles will be discussed and the importance of encouraging independence and good study habits will be stressed. Students will participate in supervised tutoring in the college Learning Resource Center. NR

TU 300
SUPERVISED TUTORING
0 Unit; 12 hours learning center
Designed to provide assistance for all students who require additional support in their courses at the college, including basic skills, advanced and honors levels. Students are assisted by trained tutors who promote self-regulated learning, critical thinking, and problem solving on the part of student learners. Students are supported to monitor their own learning processes. This course is open-entry/open-exit. R-E-99

Women’s and Gender Studies

WS 10
INTRODUCTION TO WOMEN’S STUDIES
3 Units; 3 hours lecture
Transfers: CSU, UC
An exploration of the core concepts of women’s and gender studies focusing on the ways in which the categories of gender as a social construct impact social institutions, cultural practices and the lives of women and men. The course focuses on the ways in which differences of race, ethnicity, class, sexuality and age define gendered experiences and identities. NR

WS 31
GENDER AND POPULAR CULTURE
3 Units; 3 hours lecture
Transfers: CSU, UC
An exploration of the core concepts of women’s and gender studies focusing on the ways in which the categories of gender as a social construct impact social institutions, cultural practices and the lives of women and men. The course focuses on the ways in which differences of race, ethnicity, class, sexuality and age define gendered experiences and identities. NR

Tutoring

TU 100
FUNDAMENTALS OF TUTORING
2 Units 1 hour lecture 2 hours lab
Transfers: CSU
A general introduction to tutoring and skills needed to be an effective tutor. Includes theories of learning and practical applications. Training in learning styles, using questioning techniques, college resources, prioritizing feedback, and modeling will be provided. Individual differences in learning styles will be discussed and the importance of encouraging independence and good study habits will be stressed. Students will participate in supervised tutoring in the college Learning Resource Center. NR

WS 120
WOMEN AND CAREERS
3 Units; 3 hours lecture
Transfers: CSU
Complete process of self-evaluation, decision-making, and goal setting. Offers the opportunity to reassess career aspirations, to explore the current job market, and to become acquainted with successful job-hunting and career-planning techniques. NR