

# TABLE OF CONTENTS

<b>Course List.....</b>	<b>355</b>
<b>Course Numbers .....</b>	<b>355</b>
<b>UC Transfer Statements .....</b>	<b>356</b>
<b>Coursework Standards and Expectations .....</b>	<b>356</b>
<b>Repeatable Course Models .....</b>	<b>356</b>
<b>Reading Course Descriptions .....</b>	<b>358</b>
<b>Course Information .....</b>	<b>359</b>
Accounting .....	359
Administration of Justice.....	362
Adult English as a Second Language .....	367
Anthropology.....	368
Art.....	370
Art History.....	374
Astronomy .....	379
Biology .....	379
Biotechnology .....	387
Chemistry .....	389
Chinese .....	390
Communication Studies .....	391
Computer Information Management .....	393
Computer Information: Special Services .....	399
Computer Science.....	399
Counseling.....	402
Dance .....	405
Design Model Making.....	423
Digital Media Art .....	425
Drafting .....	428
Earth Science.....	428
Economics .....	429
Electrical Technology.....	432
Electronic Technology .....	434
Emeritus Institute - Accounting .....	436
Emeritus Institute - Art.....	436
Emeritus Institute - Food and Nutrition .....	438
Emeritus Institute - Health .....	438
Emeritus Institute - Literature .....	439
Emeritus Institute - Music .....	439
Emeritus Institute - Theatre Arts.....	440
Engineering .....	440
English as a Second Language .....	443
English: Special Services .....	449

Entrepreneurship .....	450
Environmental Science .....	452
French .....	453
Gender Studies .....	454
Geography .....	455
Geology .....	457
Global Studies .....	460
Health .....	460
History .....	461
Human Development .....	464
Humanities .....	472
Interactive Media Arts .....	475
Intercollegiate Athletics .....	478
Japanese .....	481
Journalism .....	483
Kinesiology .....	484
Kinesiology: Adapted .....	496
Laser Technology .....	496
Legal .....	497
Library .....	501
Literature .....	501
Management .....	505
Marine Science .....	509
Mathematics .....	509
Mathematics: Special Services .....	515
Music .....	515
Nutrition .....	524
Philosophy .....	524
Photography .....	525
Physics .....	526
Political Science .....	527
Psychology .....	531
Reading .....	537
Real Estate .....	538
Sign Language .....	540
Sociology .....	541
Spanish .....	543
Sustainability and Resource Management .....	545
Theatre Arts .....	547
Tutoring .....	558
Writing .....	559

# Course List

## Course Numbers

### 1-299

**Courses intended for associate degrees, occupational certificates, and transfer purposes (see further explanations below).**

### 1-99

**Courses that generally transfer to both CSU and UC.** UC credit provisos, if any, are explained on the 2017-18 UC Course List. Many general education courses are numbered in this range.

### 100-199

**Courses that generally transfer to CSU but not to UC.** Many general education courses are numbered in this range.

### 200-299

**Courses that may occasionally carry transfer credit to four-year institutions; it is up to the receiving institution to make that determination.** Courses in this range include those intended for skill development and for continuing education (whether related to employment or personal development).

**Please note:** Students may count only one English course below transfer-level freshman composition as credit toward the associate degree. Writing 1 is the first transfer-level composition course at Irvine Valley College; Writing 201 is the only 200-level English course that may be applied for associate degree credit.

### 300-399

**Basic skills courses.** Courses in this range 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. There is also a state-imposed restriction limiting students to taking no more than 30 units of basic skills classes.

### 400-499

**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.

### 500-599

**Non-credit courses.**

### EXP 289

**Courses that are being considered for, but are not yet officially part of, the regular college curriculum.** For this reason, these courses are considered "experimental" and are not published in the college catalog. EXP 289 courses may carry transfer credit to four-year institutions; it is up to the receiving institution to make that determination.

### EXP 389

**Experimental courses below transfer level.** Experimental courses are not published in the college catalog.

### C-ID Numbers

Some courses in the IVC catalog include a "C-ID" number at the end of the course description. The Course Identification Numbering System (C-ID) number identifies a lower-division, transferable course commonly articulated between the California Community Colleges and four-year universities, including Universities of California, the California State Universities, as well as with many of California's independent colleges and universities. This statewide numbering system is independent from the course numbers assigned by local California community colleges.

A C-ID number next to a course signals that participating California colleges and universities have determined that courses offered by other California community colleges are comparable in content and scope to courses offered on their own campuses, regardless of their unique titles or local course number. Thus, if a schedule of classes or catalog lists a course bearing a C-ID number, for example COMM 110, students at that college can be assured that it will be accepted in lieu of a course bearing the C-ID COMM 110 designation at another community college. In other words, the C-ID designation can be used to identify comparable courses at different community colleges. However, students should always go to [www.assist.org](http://www.assist.org) to confirm how each college's course will be accepted at a particular four-year college or university for transfer credit.

The C-ID numbering system is useful for students attending more than one community college and is applied to many of the transferable courses students need as preparation for transfer. Because these course requirements may change and because courses may be modified and qualified for or deleted from the C-ID database, students should always check with a counselor to determine how C-ID designated courses fit into their educational plans for transfer.

## UC Transfer Statements

A number of courses in the catalog include statements to clarify their transfer status to the University of California (UC) during the current academic year.

**Transfers: UC - Courses accepted for elective credit by the University of California.** UC transferable courses do not necessarily apply toward major credit. Students should consult a counselor and/or visit [www.assist.org](http://www.assist.org) for information about course articulation for a particular major.

**Transfers: UC credit pending - New IVC courses numbered 1-99 that are currently under review by the University of California.** Students should consult [www.assist.org](http://www.assist.org) and/or the Counseling Center for the most up-to-date information about whether the course has been approved for UC transfer.

**Transfers: UC credit proviso - Courses numbered 1-99 for which the University of California has noted a transfer condition.** Credit provisos may include the amount of credit allowed when a course is taken in combination with other courses; corequisite courses required in order for a course to be UC transferable; limitations on transfer credit granted for activity courses; limitations on credit granted for courses with overlapping content; and other similar conditions.

**For the 2017-2018 UC Approved Course List, see 2017-18 UC Course List.** Students should consult the Counseling Center for the most up-to-date information about UC course transferability and for answers to questions about the transferability of specific courses. In addition, students should access [www.assist.org](http://www.assist.org), the official source for California articulation and student transfer information.

## 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

A limited number of courses may be repeated. All such courses are designated with an "R" code-R-A, R-E or R-I-at the close of the course description, which specifies limitations governing the accumulation of credit. A number following the repeat model indicates how many times the course may be repeated. For example, "R-E-3" means that the course may be repeated a total of three times. Repeatable models are as follows:

**Model A (R-A)**

These courses are part of a family. They are separate and distinct courses in a skill-building sequence. Any combination of courses within the family may be taken for the maximum number of times indicated in the course description.

**Model E (R-E)**

These courses have one course number and title but use a different syllabus each time the course is offered. The course may be taken a specified number of times 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 a maximum number of units as specified in the course description in the catalog.

**NR**

The course **may not be repeated.**

Please see "Repeating Courses" in the Admission and Registration section for more information.

# Reading Course Descriptions

## READING COURSE DESCRIPTIONS

If no prerequisite is noted, none is required; and any student may enroll in the course.

Units of credit.

Recommended preparation—certain preparation is advised before students enter the course. See “Prerequisites” on the Admission and Registration page.

Prerequisite—mastery of subject at a certain level is necessary for success in this class. See “Prerequisites” on the Admission and Registration page.

Corequisite—concurrent (simultaneous) enrollment in or prior successful completion of a companion course and/or lab is required. See “Prerequisites” on the Admission and Registration page.

Limitation on enrollment—special conditions apply for entry into a course. See “Prerequisites” on the Admission and Registration page.

Course ID Course Title

**AJ 102**  
**CRIMINAL PROCEDURES**

**3 Units - 3 hours lecture**

*Transfers: CSU*

*Recommended Preparation: AJ 2*

This course traces legal processes from pre-arrest and arrest through trial, sentencing, and correctional procedures. The course reviews the history of case and common law; examines the laws of arrest, search and seizure; examines legal interpretations as reflected in court decisions; and studies case law methodology and case research in order to demonstrate how decisions impact the procedures of the justice system. C-ID: AJ 122. *NR*

Weekly class hours, lecture, laboratory, and/or learning center. For more information, see “Coursework Standards and Expectations” on the Course Information page.

C-ID number identifies a lower-division, transferable course commonly articulated between the California Community Colleges and four-year universities. See [www.c-id.net/about.html](http://www.c-id.net/about.html)

**ART 186**  
**DRAWING THE HEAD AND HANDS**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU*

*Prerequisite: ART 85*

*Recommended Preparation: ART 50 and 86*

This drawing course studies the anatomy and form of the human head and hand, and explores how to represent these most complex forms of the human figure in a two-dimensional medium. Students work with a variety of construction models and study how the application of light affects image and perspective. They apply the basic principles of construction to create an illusion of a three-dimensional form. *R-E-3*

Limits on course repeatability and credit accumulation. For more information, see “Coursework Standards and Expectations” on the Course Information page.

**BIO 12D**  
**HUMAN PHYSIOLOGY – DISCUSSION**

**2 Units - 2 hours lecture**

*Transfers: CSU, UC credit proviso (see UC Course List)*

*Corequisite: BIO 12*

This discussion course affords students enrolled in Biology 12, Human Physiology, the opportunity to discuss, analyze, and exchange ideas concerning human function. Discussions focus on negative feedback control systems and other key topics covered in BIO 12, as well as background information not generally covered in the lecture. BIO 12D is offered on a pass/no-pass basis only. *NR*

Course carries transfer credit to UC, but some restrictions may apply. See the UC Course List on the Degrees, Certificates, and Transfer Planning page.

Course may not be taken for a letter grade.

**TA 16**  
**REHEARSAL AND PERFORMANCE: COMEDY**

**2 Units - 6 hours lab**

*Transfers: CSU, UC*

*Limitation: By audition only*

This course focuses upon the preparation of comic productions for public performance. The course addresses performance techniques, theories, and philosophies as they relate to the development of comic productions. Students will both act and assist with technical work and production management. TA 16 is an open-entry/open-exit course. *R-E-3*

Course may not be repeated.

The term “open entry/open exit” refers to courses in which students enroll at different times, and complete at various times or at varying paces within a semester.

# Course Information

## Accounting

### ACCT 1A FINANCIAL ACCOUNTING

**4 Units - 4 hours lecture, 1 hour lab**

*Transfers: CSU, UC*

*Recommended Preparation: MATH 253*

This course presents the basic theory and structure of financial accounting as an information system focusing on the corporate form of business ownership. The course covers all aspects of the accounting cycle: using spreadsheets to generate financial statements, cash flow, and the adjusting and closing process. It also covers topics related to financial activity, including asset management (including cash and receivables, investments, and inventories); liabilities; debt and equity valuation; internal controls; accounting for capital acquisition through debt or equity financing; and generally acceptable industry standards of ethics and principles in all aspects of financial accounting. C-ID: ACCT 110. *NR*

### ACCT 1B MANAGERIAL ACCOUNTING

**4 Units - 4 hours lecture, 1 hour lab**

*Transfers: CSU, UC*

*Prerequisite: ACCT 1A*

This course covers information used by managers to plan, direct operations, control costs, and make decisions, focusing on manufacturing and service-related businesses. The course stresses key managerial principles and how they are applied to decisions related to fixed vs. variable costs, cost-volume-profit relationships, fixed vs. flexible budgeting, differential analysis, and product pricing strategies. Credit may be earned in either ACCT 1B or ACCT 1BH, but not both. C-ID: ACCT 120. *NR*

### ACCT 1BH MANAGERIAL ACCOUNTING HONORS

**4 Units - 4 hours lecture, 1 hour lab**

*Transfers: CSU, UC*

*Prerequisite: ACCT 1A*

This course covers information used by managers to plan, direct operations, control costs, and make decisions for manufacturing and service-related businesses. In this honors course students will be taught academic research methods, determination of authoritative sources, writing papers with APA format, and oral business presentations. Credit may be earned in either ACCT 1B or 1BH, but not both. C-ID: ACCT 120. *NR*

### ACCT 112.1 SPREADSHEETS I

**1.5 Units - 1.5 hours lecture**

*Transfers: CSU*

This course is designed for individuals seeking to develop introductory skills in using spreadsheet software. Students will use a spreadsheet program to organize and manage financial data. Topics include formulas and functions, charts and graphs, and developing well-formatted worksheets. ACCT 112.1 is also listed as CIM 112.1; credit will be given in either area, not both. *NR*

### ACCT 112.2 SPREADSHEETS II

**1.5 Units - 1.5 hours lecture**

*Transfers: CSU*

*Recommended Preparation: ACCT 112.1/CIM 112.1*

This course provides instruction and training in the use of spreadsheet software at the intermediate level. Students will produce sophisticated spreadsheet documents for a variety of business applications. Topics include working with lists and pivot tables, consolidating multiple worksheets and workbooks, integrating the spreadsheet software with other software programs and the web, and creating macros. ACCT 112.2 is also listed as CIM 112.2; credit will be given in either area, not both. *NR*

## **ACCT 114 BUSINESS MATHEMATICS**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

This course provides an overview of basic mathematical concepts and their application in such areas as banking, discounts, markups and markdowns, payroll, interest, notes, present value, financial statements, installment buying, taxes, insurance, and other topics related to business. *NR*

## **ACCT 202A INTERMEDIATE ACCOUNTING I**

### **3 Units - 3 hours lecture**

Prerequisite: ACCT 1A

This course provides an overview of the fundamental accounting processes and an in-depth study of the income statement, balance sheet, and related accounts including: cash, receivables, inventory, plant assets, intangible assets, and long-term investments. *NR*

## **ACCT 202B INTERMEDIATE ACCOUNTING II**

### **3 Units - 3 hours lecture**

Prerequisite: ACCT 202A

This course provides an in-depth overview of income statement, statement of cash flows and balance sheet accounts including: current and contingent liabilities, long-term debt, revenue recognition, income taxes, pensions, leases, pensions and accounting changes and error analysis. *NR*

## **ACCT 203 COST ACCOUNTING**

### **3 Units - 3 hours lecture**

*Prerequisite: ACCT 1B or ACCT 1BH*

This course offers a comprehensive study of the theory, principles and practices of cost accounting. Topics covered include job order cost systems; process cost accounting; direct costing; and managerial use of cost data in decision making. The course may be used to qualify students to sit for the CPA exam. *NR*

## **ACCT 204 ACCOUNTING APPLICATIONS: QUICKBOOKS**

### **3 Units - 3 hours lecture**

*Recommended Preparation: ACCT 1A*

This course focuses on converting from a manual to a computerized accounting system. Students learn to assess system requirements and software using current industry-standard accounting applications. They learn how to perform accounting transactions in the areas of general ledger, accounts receivable, and accounts payable; generate reports and financial statements; solve a variety of accounting problems; and develop an audit trail. This course provides training in the use of QuickBooks software in the Windows environment. *NR*

## **ACCT 205 PAYROLL ACCOUNTING AND TAXATION**

### **3 Units - 3 hours lecture**

*Recommended Preparation: ACCT 1A or ACCT 215*

This course covers the theory and practices pertaining to payroll preparation and accounting, including federal and state payroll tax forms, and laws and regulations affecting the payroll function. Students gain experience in computing wages; calculating



social security, income, and unemployment taxes; preparing payroll tax forms; analyzing payroll transactions; and posting transactions in the general ledger. The course is designed to assist those preparing for a career in accounting, finance, or business management; a career concentration in payroll; or certifications such as the Payroll Fundamental Certification (PFC) or the Certified Payroll Professional (CPP). *NR*

## **ACCT 206 INDIVIDUAL INCOME TAXATION - FEDERAL AND STATE**

### **3 Units - 3 hours lecture**

This course covers the theory and application of income tax laws and regulations, including tax strategies and relevant ethical issues. The course explains the preparation of federal and state personal income tax returns, using actual forms, when appropriate. It is intended to be one of two courses that, combined, meet the curriculum guidelines promulgated by the California Tax Education Council (CTEC). Upon successful completion of both courses, students will qualify for a CTEC-approved certificate that enables the holder to prepare income tax returns for compensation in California. In addition, the course meets the "accounting-related" or "business-related" course requirements needed to sit for the CPA exam. *NR*

## **ACCT 207 BUSINESS INCOME TAXATION - FEDERAL AND STATE**

### **3 Units - 3 hours lecture**

This course covers the theory and application of income tax laws and regulations, including tax strategies and relevant ethical issues. The course explains the preparation of federal and state business income tax returns, using actual forms when appropriate. It is intended to be one of two courses that, combined, meet the curriculum guidelines promulgated by the California Tax Education Council (CTEC). Upon successful completion of both courses, students will qualify for a CTEC-approved certificate that enables the holder to prepare income tax returns for compensation in California. In addition, the course meets the "accounting-related" or "business-related" course requirements needed to sit for the CPA exam. *NR*

## **ACCT 209 INTERNAL CONTROLS UNDER SARBANES-OXLEY**

### **3 Units - 3 hours lecture**

Prerequisite: ACCT 1A and ACCT 1B or ACCT 1BH

This course provides an introduction to the history, intent, and implementation of the Sarbanes Oxley Act of 2002. It includes the study of the design, documentation, implementation and maintenance of internal controls required by the Sarbanes-Oxley law. *NR*

## **ACCT 210 ACCOUNTING FOR BUSINESS COMBINATIONS**

### **3 Units - 3 hours lecture**

*Prerequisite: ACCT 1A*

This course teaches the methods of accounting for mergers, acquisitions, and consolidations of business entities. It explores pre-combination activities and business considerations. It also teaches post combination accounting, financial statement presentation and financial disclosure requirements. *NR*

## **ACCT 211 ACTIVITY BASED COSTING - CALCULATING CUSTOMER PROFITABILITY**

### **3 Units - 3 hours lecture**

Prerequisite: ACCT 1B or ACCT 1BH

Recommended Preparation: Knowledge of the fundamentals of spreadsheet software

This course will teach students a method used to quantify the profitability of individual business customers using a model based on activity-based costing concepts and which uses financial information and other key data on each customer. Analysis results will identify growth potential in customer segments, unprofitable customer segments, and the cost of servicing customers. The course explores aligning, promoting, and pricing customer products or services and dealing with unprofitable customer segments. *NR*

## **ACCT 212.3 SPREADSHEETS III - CERTIFICATION**

### **3 Units - 3 hours lecture**

*Recommended Preparation: ACCT 112.2/CIM 112.2*

This course provides students with advanced study and training required to qualify for Microsoft Office Specialist(MOS) certification in spreadsheet software. Students will review and learn to integrate all of the features of the spreadsheet program and incorporate data from other software programs and the World Wide Web. The course is designed to prepare students for the MOS Certification exam for spreadsheets. ACCT 212.3 is also listed as CIM 212.3; credit will be given in either area, not both. *NR*

## **ACCT 215 GENERAL ACCOUNTING**

### **3 Units - 3 hours lecture**

This course presents the basic principles and theory of elementary accounting pertinent to a sole proprietorship and partnership. Students learn how to apply accounting theory to the accounting cycles of service and merchandising business enterprises. This course is recommended for students seeking a bookkeeping foundation and for business majors *NR*

## **ACCT 220 GENERAL ACCOUNTING**

### **4 Units - 4 hours lecture**

Prerequisite: ACCT 1B or ACCT 1BH

This course will expose students to ethical and professional issues encountered by those practicing in the accounting field. Study of ethical framework includes the American Institute of Certified Public Accountants (AICPA) Code of Professional Ethics, audit responsibilities and accounting fraud, legal and regulatory obligations, corporate governance, and internal financial reporting. *NR*

## **ACCT 275 AUDITING**

### **3 Units - 3 hours lecture**

Prerequisite: ACCT 1B or ACCT 1BH

This course 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 tests of control. *NR*

# **Administration of Justice**

## **AJ 2 INTRODUCTION TO ADMINISTRATION OF JUSTICE**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course offers an introduction to the history and philosophy of the administration of justice system as it has evolved over time. The course studies in-depth the American system of criminal justice and its various subsystems; the roles and role expectations of criminal justice agents; theories and concepts of crime, crime causation, punishment, rehabilitation, victimization, and disparity in treatment of offenders; local and federal court systems; and ethics, education, and training for professionalism in the criminal justice system. C-ID: AJ 110. *NR*

## **AJ 4 CRIMINAL LAW I**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course presents the philosophical and historical development of U.S. law and constitutional provisions. The course defines and classifies crimes and examines their applications to the system of administration of justice. Students analyze crimes against persons, property, and the state in relation to social, religious, and historical ideology. The course includes an assessment of legal definitions, legal research and writing, and a brief introduction to laws of arrest and criminal procedure. C-ID: AJ 120. *NR*

## **AJ 5 THE COMMUNITY AND THE JUSTICE SYSTEM**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Recommended Preparation: AJ 106*

This course examines the complex, dynamic relationship between the community and the justice system. Focus will be on the working relationship between the community and the components of the justice system in managing crime and conflict, with emphasis on the challenges and prospects of dealing with diverse multicultural and socioeconomic populations. This course emphasizes the roles of the police and the community and strategies for building positive working relationships. Topics include problem solving, crime prevention, and diversity. C-ID: AJ 160. *NR*

## **AJ 8 JUVENILE LAW AND PROCEDURES**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Recommended Preparation: AJ 2*

This course provides a thorough introduction to the juvenile justice system. The course addresses the history and philosophy of juvenile law and delinquency; the role of police in handling juvenile offenders and preventing and repressing delinquency; the ability of the police and juvenile justice system to adapt to changing youth criminal patterns; techniques and procedures involved in apprehending young offenders and prosecuting juvenile cases; and the relationship between community agencies, the police, and juvenile justice resources, with special emphasis on California. C-ID: AJ 220. *NR*

## **AJ 13 CONSTITUTIONAL LAW AND THE JUSTICE SYSTEM**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Recommended Preparation: AJ 4*

This course evaluates the constitutional origins of criminal laws and their relationship to law enforcement. The particular emphasis of the course is on the constitutional protections provided by the First, Fourth, Fifth and Sixth amendments of the Bill of Rights and their impact on the process of law enforcement. AJ 13 was formerly offered as AJ 113. *NR*

## **AJ 19 INTRODUCTION TO CORRECTIONS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course is an overview of the corrections subsystem of the criminal justice system. It examines the historical development of correctional theory, practice, and punishment; current concepts, trends, and practices; explanations of criminal behavior; legal issues, general laws, and general operations related to correctional institutions; and functions and objectives of the criminal justice system concerned with institutional, probation, parole, and community correctional processes as they modify the offender's behavior. The course explores professional career opportunities in public and private agencies. AJ 19 was formerly offered as AJ 119. C-ID: AJ 200. *NR*

## **AJ 61 ORGANIZED CRIME AND CRIMINAL ENTERPRISE IN AMERICA**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Recommended Preparation: AJ 2*

This course provides the student with an introduction to the study of organized crime and criminal enterprise. Students examine the influence of covert criminal activities, including street gangs, prison gangs, and traditional organized crime upon social structure; symptoms and recognition of organized crime activity, including the interrelationship with drugs/narcotics, white-collar crime, and vice operations; and the historical and contemporary problems faced by criminal justice agencies combating these criminal enterprises in the United States. AJ 61 was formerly offered as AJ 161. *NR*

## **AJ 102 CRIMINAL PROCEDURES**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

Recommended Preparation: AJ 2

This course traces legal processes from pre-arrest and arrest through trial, sentencing, and correctional procedures. The course reviews the history of case and common law; examines the laws of arrest, search and seizure; examines legal interpretations as reflected in court decisions; and studies case law methodology and case research in order to demonstrate how decisions impact the procedures of the justice system. C-ID: AJ 122. *NR*

## **AJ 103 INTRODUCTION TO EVIDENCE**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

*Recommended Preparation: AJ 2 and/or AJ 4*

This course studies the origin, development, philosophy, and constitutional basis of the rules of evidence; constitutional and procedural considerations affecting arrest, search, and seizure; types and degrees of evidence and rules governing admissibility in a court of law; and judicial decisions interpreting individual rights. Case studies will be examined for practical use. C-ID: AJ 124. *NR*

## **AJ 105 INTRODUCTION TO INVESTIGATION**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

*Recommended Preparation: AJ 2*

This course introduces the fundamentals of investigation, including techniques of crime scene search and recording; recognition, collection and preservation of physical evidence; interviewing of suspects, victims, and witnesses; modus operandi; and court preparation and presentation. C-ID: AJ 140. *NR*

## **AJ 106 POLICE FIELD OPERATIONS**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

This course presents an overview of patrol operations, the primary enforcement unit of the police. The course outlines the development of the patrol enforcement philosophy and role expectations of the line enforcement officer. It introduces students to current models and practices of patrol enforcement including basic patrol and traffic duties; handling requests for services; conducting field interviews, searches, and arrests; interceding in civil and domestic disturbances; and other community problems. Field trips may be required. *NR*

## **AJ 107 CRIMINAL LAW II**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

*Recommended Preparation: AJ 4*

This course examines the critical elements of federal, state, and relevant administrative and procedural laws as they affect the rights and duties of citizens and the police. Emphasis is on the interpretation and enforcement of provisions of the California Penal, Welfare and Institutions, Health and Safety and Vehicle codes. The course examines judicial limitations on the legal and procedural powers of peace officers, such as constitutional restraints on peace officers' arrest, search and seizure powers. *NR*

## **AJ 111 LAW ENFORCEMENT ADMINISTRATION**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

This course studies organizational elements and administration in the criminal justice system. Topics include police selection and promotion, human resource management, principles of communication, personnel and liability issues, and police operations. The course addresses such structural elements as planning, staffing, records, budget, processing of grievances, and personnel discipline techniques. *NR*

## **AJ 112 POLICE SUPERVISION**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

This course examines the role and responsibility of the supervisor in law enforcement agencies. The course discusses the primary duties of a law enforcement supervisor - including employee discipline, training, performance appraisal, and personnel complaint investigations - and provides a basic foundation for theories of organization, administration, and management. Leadership and ethics are emphasized. *NR*

## **AJ 150 REPORT WRITING FOR ADMINISTRATION OF JUSTICE**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

*Recommended Preparation: AJ 2, WR 301, and WR 380*

This course is an introduction to the basic concepts of technical report writing and the preliminary investigation methods used to prepare various types of criminal justice system reports, letters, memoranda, directives and administrative reports. Students will be required to prepare simulated reports based upon fictitious scenarios and assigned related readings, applying the rules of English grammar, spelling, sentence structure, punctuation, and word usage, and the format appropriate for successful criminal justice writing. Students will become familiar with technical terminology and research sources commonly used in the criminal justice field. *NR*

## **AJ 168 COOPERATIVE WORK EXPERIENCE: ADMINISTRATION OF JUSTICE**

### **1 Unit - 1 hour lab**

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 or a certificate. *NR*

## **AJ 168 COOPERATIVE WORK EXPERIENCE: ADMINISTRATION OF JUSTICE**

### **2 Units - 2 hours lab**

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 or a certificate. AJ 168 was formerly offered as CWE 168. *NR*

## **AJ 168 COOPERATIVE WORK EXPERIENCE: ADMINISTRATION OF JUSTICE**

### **3 Units - 3 hours lab**

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 or a certificate. *NR*

## **AJ 168 COOPERATIVE WORK EXPERIENCE: ADMINISTRATION OF JUSTICE**

### **4 Units - 4 hours lab**

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 or a certificate. *NR*

## **AJ 250 P.O.S.T. CERTIFIED-ARREST, SEARCH, SEIZURE, AND FIREARMS**

### **3 Units - 2.5 hours lecture, 1.5 hours lab**

*Recommended Preparation: AJ 150*

This California Police Officer Standards and Training (P.O.S.T.) course is designed to orient students to the laws of arrest, search, seizure, and firearms as they relate to peace officers. The course covers laws and techniques of arrest, search, and seizure; the practical aspects of firearms use; and other specialized training as may be necessary. Students will be responsible for their own firing range fees and ammunition. Successful completion of this course satisfies the minimum training standards of California peace officers defined under Section 832 of the California Penal Code. Open to all students. *NR*

## **AJ 260 INVESTIGATION AND TRIAL PREPARATION - DISTRICT ATTORNEY**

### **4 Units - 4 hours lecture**

*Prerequisite: Completion of a California Peace Officers Standard of Training (POST) basic academy or its equivalent.*

This course is designed for police officers who have been, or are about to be, assigned to the investigative staff of the district attorney's office. Course topics include the role and authority of the district attorney investigator; proper techniques and procedures for interviewing victims, witnesses, and informants; professional, ethical, and legal responsibilities of the investigator; and consequences for unprofessional behavior. *NR*

## **AJ 281 CODE ENFORCEMENT OFFICER BASICS**

### **0.5 Units - 2.5 Hours Lab**

*Limitation: Must be able to move through potentially hazardous areas including rugged terrain and possible contaminated sites safely.*

This is the first course in the Code Enforcement Officer Training Program. Students are introduced to basic concepts in municipal codes pertaining to various types of properties. Course topics include: basic inspection protocols, planning and community development, officer safety, vehicle abatement, zoning/nuisance, right of entry and inspection warrants, case preparation and overview, abatement of dangerous buildings and substandard housing, legal remedies in code enforcement, dealing with difficult people, and interviews and interrogations. New CA state standards will be reviewed for compliance purposes with revised state regulations. Course prepares the student to take the Basic Certification of Code Enforcement. Field trips may be required. *NR*

## **AJ 282 CODE ENFORCEMENT OFFICER INTERMEDIATE**

### **0.5 Unit - 2.5 hours lab**

*Prerequisite: AJ 281*

*Limitation: Must be able to move through potentially hazardous areas including rugged terrain and possible contaminated sites safely.*

This is the second course in the Code Enforcement Officer Training Program. This intermediate Code Enforcement Officer Course is a 40-hour course designed for current Code Enforcement Officers or an individual who is seeking employment as a Code Enforcement Officer. Course topics include: effective communications, use of chemical and technical means as deterrents, legal updates, multi-agency task force inspections, animal awareness and related hazards. Field trips may be required. *NR*

## **AJ 283 CODE ENFORCEMENT OFFICER ADVANCED CODE**

### **0.5 Unit - 2.5 hours lab**

*Prerequisite: AJ 282*

*Limitation: Students are expected to walk through rugged terrain and may be exposed to hazardous situations in any potential field trip*

This is the third course in the Code Enforcement Officer sequence. This advanced Enforcement Officer Course is a 40 hour course designed to provide technical knowledge for Current Code Enforcement Officers that will require the interpretation and application of the Health and Safety and Building Codes. Course topics include: legal aspects with constitutional considerations including the Fourth Amendment, Vectors, Microbial Contamination, Building, Plumbing, Electrical, Mechanical, Fire Code and Officer Safety pertaining to Drug and Gang Awareness. Field trip may be required. *NR*

## **AJ 284 CODE ENFORCEMENT OFFICER SUPERVISION**

### **0.5 Unit - 1.5 hours lab**

*Prerequisite: AJ 283*

*Limitation: Must be able to move through hazardous areas safely during any potential field trips*

This is the fourth course in the Code-Enforcement Officer sequence. This course is designed to provide technical knowledge for current Code Enforcement Officers that address supervisor responsibilities and management. Course topics include: budgeting and finance, community relations, working with the media, human resources, communication, cost recovery, report writing and case studies in supervision. Field trips may be required. *NR*

# **Adult English as a Second Language**

## **AESL 501 BEGINNING ADULT ESL LEVEL 1**

### **0 Units - 12 hours lab**

Recommended Preparation: Students should be literate in native spoken language, semi-literate in native written language.

This is the first course in the adult education, ESL non-credit sequence. Low beginning English learners will practice listening, speaking, reading, and writing skills focused on everyday situations and U.S. civics and culture. Students will work on basic English skills to be able to function in an English speaking community, such as recognizing and using common words, following directions, recognizing and using commands, and filling out simple forms. This is an open-entry/open-exit course. *R-E-99*

## **AESL 502 BEGINNING ADULT ESL LEVEL 2**

### **0 Units - 12 hours lab**

Recommended Preparation: AESL 501 or by ESL assessment

This is the second course in the adult education ESL non-credit sequence. High beginning English learners will continue practicing listening, speaking, reading, and writing skills focused on everyday situations and U.S. civics and culture. Students work on developing Basic English skills for everyday needs, such as shopping, enrolling children in school, filling out simple applications, and going to the bank/post office. Students are encouraged to speak and write about their personal interests and life experiences. This is an open-entry/open-exit course. *R-E-99*

## **AESL 503 BEGINNING ADULT ESL LEVEL 3**

**0 Units - 12 hours lab**

Recommended Preparation: AESL 502 or by ESL assessment

This is the third course in the adult education ESL non-credit sequence. Intermediate English learners will practice listening, speaking, reading, and writing skills focused on life and career goals, U.S. civics, and culture. Students will work with integrated English skills used in situations that require interaction with the public such as parent-teacher conferences, simple job interviews, and the doctor's office. Students at this level increase their conversational fluency, vocabulary development, and grammar accuracy. This is an open-entry/open-exit course. *R-E-99*

**AESL 504 BEGINNING ADULT ESL LEVEL 4****0 Units - 12 hours lab**

Recommended Preparation: AESL 503 or by ESL assessment

This is the fourth course in the adult education, ESL non-credit sequence. Intermediate learners will practice listening, speaking, reading, and writing skills focused on life skills, career development, and U.S. civics and community. Students will build on their communication skills and will learn how to monitor their own language learning process. Focus will be on English for job preparation and more complex interactions with the community. Example activities will be writing professional emails and cover letters, interviewing for a job, volunteering in the community, and responding to legal/community correspondence. This is an open-entry/open-exit course. *R-E-99*

**AESL 505 BEGINNING ADULT ESL LEVEL 5****0 Units - 12 hours lab**

Recommended Preparation: AESL 504 or by ESL assessment

This is the fifth course in the adult education, ESL non-credit sequence. Advanced English learners will practice listening, speaking, reading, and writing skills focused on career goals, college readiness, and a deeper understanding of U.S. civics and community. Lessons integrate language skills with long-term strategies necessary for successful transition into college credit programs and career advancement. Sample activities include making presentations for work, writing academically, exploring college options, and planning for a career/major. This is an open-entry/open-exit course. *R-E-99*

**AESL 599 AESL LEARNING CENTER****0 Units - 5 hours learning center**

Corequisite: AESL 501, 502, 503, 504 or 505

An open-entry/open-exit, non-credit course for students enrolled in specific corequisite AESL courses. Supports student learning by reinforcing speaking, listening, reading, writing, and digital literacy skills through the use of computer-based English learning software and conference instruction. *R-E-99*

## Anthropology

**ANTH 1 INTRODUCTION TO PHYSICAL ANTHROPOLOGY****3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course is the study of human biology within the framework of evolution, with an emphasis on the interaction between biology and culture. The course introduces students to the principles of evolution and natural selection, the fossil evidence of human evolution, primate behavior, and the biological basis of human variation. Credit may be earned in either ANTH 1 or ANTH 1H, but not both. *NR*

**ANTH 1H INTRODUCTION TO PHYSICAL ANTHROPOLOGY HONORS****3 Units - 3 hours lecture**

*Transfers: CSU, UC*



ANTH 1H is the study of human biology within the framework of evolution, with an emphasis on the interaction between biology and culture. The course introduces students to the principles of evolution and natural selection, the fossil evidence of human evolution, primate behavior, and the biological basis of human variation. This honors course will be enriched through limited class size, seminar format and more extensive reading and analysis of primary research, culminating in a final research project and oral presentation. Credit may be earned in either ANTH 1 or 1H, but not both. C-ID: ANTH 110. *NR*

## **ANTH 1L PHYSICAL ANTHROPOLOGY LAB**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC credit pending*

ANTH 1L is the companion course to ANTH 1 or ANTH 1H (Introduction to Physical Anthropology) and may be taken concurrently with ANTH 1 or ANTH 1H or in a subsequent semester. The lab course includes in depth exploration of the scientific method, evolutionary theory, natural selection, cellular and population genetics, osteology, osteometry, primate behavior and evolution, hominin evolution. Field trips may be required. *NR*

## **ANTH 2 CULTURAL ANTHROPOLOGY**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course presents a cross-cultural, comparative study of human behavior including current ethical obligations of anthropologists. The course investigates the relationship between language and culture; subsistence strategies; social organization; marriage and family patterns; systems of kinship and descent; economic, political, and religious systems; psychological anthropology; components of cultural change and the impact of globalization on language and culture. Credit may be earned for either ANTH 2 or ANTH 2H, but not both. *NR*

## **ANTH 2H CULTURAL ANTHROPOLOGY HONORS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course presents a cross-cultural, comparative study of human behavior including current ethical obligations of anthropologists. The course investigates the relationship between language and culture; subsistence strategies; social organization; marriage and family patterns; systems of kinship and descent; economic, political, and religious systems; psychological anthropology; components of cultural change and the impact of globalization on language and culture. This honors course will be enriched through limited class size, seminar format, more extensive reading and analysis of primary research, participation in first hand fieldwork culminating in a final project - can be conducted on campus, and oral presentation. Credit may be earned for either ANTH 2 or 2H, but not both. *NR*

## **ANTH 3 CULTURE AND LANGUAGE**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course explores the relationship between language and culture. The course examines characteristics of human language versus animal communication, contemporary theories of language acquisition, the impact of language on thought, the relationship between language and gender, techniques used in descriptive and historical linguistics, major language families, and linguistic diversity. *NR*

## **ANTH 4 NATIVE AMERICAN CULTURES**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course examines the origin, major language families, and cultures of the Native Americans from traditional and contemporary perspectives. Topics include various subsistence strategies, social organization, political systems, and religious customs and beliefs, as well as Native American music and art. *NR*

## **ANTH 7 NATIVE AMERICANS OF SOUTHERN CALIFORNIA**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course examines the origin, major language families, and cultures of the Native Americans of Southern California. Topics will include the various subsistence strategies, social organization, political systems, and religious customs and beliefs, as well as Native American music and art. *NR*

## **ANTH 9 INTRODUCTION TO ARCHEOLOGY**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course examines the theoretical framework, historical development, and methods of anthropological archeology. The course introduces students to archeological site location and analysis, data collection, excavation techniques, artifact identification and classification, and interpretation of cultural sequences. This course will discuss archeological ethics and community relations as well as cultural resource management. C-ID: ANTH 150. *NR*

## **ANTH 13 MAGIC, WITCHCRAFT AND RELIGION**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course emphasizes the nature, origins and purposes of religion through a broad range of cultural examples. Emphasis will be placed on the identification of myth and symbolism, the analysis of roles of varied religious practitioners, the relevance of magic, witchcraft and sorcery and evaluation of religious change. *NR*

# **Art**

## **ART 40 2-D DESIGN AND COLOR**

### **3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

This course is an introduction to two-dimensional design and color. Students learn to organize the visual elements of line, shape, color, value, and texture according to established principles of art. Emphasis is placed on manual skill and dexterity. ART 40 is required of art majors but is open to all students. *NR*

## **ART 41 3D DESIGN**

### **3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: ART 40*

This course introduces the principles of three-dimensional design. Students work with a variety of materials, exploring the elements of line, plane, volume and mass and their composition in space. ART 41 is required of art majors but is open to all students. Attendance at field trips may be required. C-ID: ARTS 101. *NR*

## **ART 42 COLOR THEORY**

### **3 Units - 2 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

This course investigates the various characteristics of color including theory, psychology, history, and the expressive aspects of color. Students will explore aspects of color mixing, matching, analysis, and relationships as it applies to the visual arts. *NR*

## **ART 50 BEGINNING OIL PAINTING**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: ART 40 and ART 80 strongly recommended.*

This is a basic course in the craft and practice of oil painting. The course stresses the fundamentals of composition, value and color theory, instructing students to paint traditional subject matter from direct observation. ART 50 is required of art majors but is open to all students. Field trips may be required. *NR*

## **ART 51 INTERMEDIATE PAINTING**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC credit proviso (see UC Course List)*

*Recommended Preparation: ART 40 and ART 50*

This course is designed to further the development of the student's painting skills. The course explores the creative process of developing a painting through the use of contemporary color and design, as well as furthering more advanced classical painting techniques. *NR*

## **ART 52 ADVANCED PAINTING**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC credit proviso (see UC Course List)*

*Recommended Preparation: ART 50, ART 51, and ART 80*

Students explore representational and non-representational subject matter in a variety of media, including acrylic, oil, and mixed media. The course focuses on the development of concepts and themes in a series of paintings. *NR*

## **ART 53 BEGINNING LIFE PAINTING**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC credit proviso (see UC Course List)*

*Prerequisite: ART 85*

*Recommended Preparation: ART 50, ART 51, ART 85, and ART 86*

This course is an introduction to painting the human figure. Emphasis is placed on the application of light, color, and palette systems to the figure, and the development of composition within the painting. The course is designed to develop the student's ability to portray the live model in a representational manner using the traditional methods of oil painting. *NR*

## **ART 60 INTRODUCTION TO PRINTMAKING**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

*Prerequisite: ART 80*

*Recommended Preparation: ART 40*

This course explores the fundamentals of the fine art of printmaking. Processes explore relief and intaglio printmaking methods. Emphasis is placed on developing skills, creative exploration in black and white, an introduction to color printmaking techniques, and technical analysis of printmaking aesthetics. Students will produce limited editions and survey the history of printmaking. *NR*

## **ART 61 INTERMEDIATE PRINTMAKING**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

*Prerequisite: ART 80*

*Recommended Preparation: ART 40*

ART 61 explores the fine art printmaking process, including both relief and intaglio methods. Emphasis is placed on further

developing skills, creative exploration into monochromatic and color palettes, and in depth technical analysis of printmaking techniques. Emphasis is placed on enhancing basic printmaking skills. *NR*

## **ART 62 PRINTMAKING: PAINTERLY TECHNIQUES**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

Prerequisite: ART 60

Recommended Preparation: ART 80

ART 62 continues the exploration of the fine art printmaking process begun in ART 60, including both relief and intaglio methods. Emphasis is placed on edition printing (color), advanced technical skills of multiplate printing, color printing, monoprinting, and continued development of personal imagery and techniques. *NR*

## **ART 64 PRINTMAKING: ALTERNATIVE PROCESSES**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

Prerequisite: ART 60

Recommended Preparation: ART 80

ART 64 explores contemporary printmaking processes using a variety of light sensitive polymer plates and other alternatives to classical printmaking techniques. Images are prepared digitally and manually combining new and old methods of printed image creation. Emphasis is placed on developing visual statements, design sensibility, technical skills, printmaking aesthetics, historical contexts, and craftsmanship through projects, discussions, and oral and written criticism. *NR*

## **ART 80 DRAWING FUNDAMENTALS**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

This is a basic course in representational drawing. It introduces students to the process of perceiving natural forms and rendering the illusion of three-dimensional reality on a two-dimensional surface. Students apply the principles, elements and practices of representational drawing using black and white, wet and dry media. ART 80 is required of art majors but is open to all students. Students are limited to taking four drawing courses (ART 80, 81, 82, 85, 86, 88 or 186) for a maximum of 12 units. *NR*

## **ART 81 REPRESENTATIONAL DRAWING**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: ART 80*

This course is designed to build upon skills acquired in ART 80, Drawing Fundamentals. The course centers on the study of contemporary and traditional realistic drawing concepts, with emphasis on their creative application. Students work with dry and fluid media to create a variety of drawings. The course presents and explores the possibility of content and meaning and introduces the use of color in drawing. Students may take four drawing courses (ART 80, 81, 82, 85, 86, 88 or 186) for a maximum of 12 units. C-ID: ARTS 205. *NR*

## **ART 82 ADVANCED DRAWING**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: ART 81*

This advanced course emphasizes the process of drawing as a form of creative expression. Students explore a variety of media, including gesso, colored chalks, ink, watercolor, and collage, and traditional and contemporary drawing styles. The course is designed to develop each student's personal drawing style. Students may take four drawing courses (ART 80, 81, 82, 85, 86, 88 or 186) for a maximum of 12 units. *NR*

## **ART 85 LIFE DRAWING I**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC credit proviso (see UC Course List)*

*Recommended Preparation: ART 80*

This is a basic course in life drawing. It introduces students to the methods of rendering the illusion of the human form on a two-dimensional surface. Students apply the principles, elements and practices of representational drawing using black and white, wet and dry media in drawings of the live model. Students may take four drawing courses (ART 80, 81, 82, 85, 86, 88 or 186) for a maximum of 12 units. *NR*

## **ART 86 ADVANCED LIFE DRAWING**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC credit proviso (see UC Course List)*

This is an advanced course in life drawing. Students apply the principles, elements and practices of representational drawing using black and white, wet and dry media to render the human form emphasizing its musculature. The course is designed to develop students' facility in perceiving the human form and rendering the illusion of three-dimensional reality on a two-dimensional surface. Students may take four drawing courses (ART 80, 81, 82, 85, 86, 88 or 186) for a maximum of 12 units. C-ID: ARTS 200. *NR*

## **ART 88 FIGURE DRAWING FOR ANIMATION**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

*Prerequisite: ART 80*

*Recommended Preparation: ART 85 and/or ART 86*

This is an intermediate course in figure drawing. Students will explore the principles, methods, and concepts relative to drawing the human figure for the purpose of animation and figure invention. Students may take four drawing courses (ART 80, 81, 82, 85, 86, 88, or 186) for a maximum of 12 units. ART 88 was formerly offered as ART 185. *NR*

## **ART 186 DRAWING THE HEAD AND HANDS**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU*

*Recommended Preparation: ART 50 and ART 86*

This drawing course studies the anatomy and form of the human head and hand, and explores how to represent these most complex forms of the human figure in a two-dimensional medium. Students work with a variety of construction models and study how the application of light affects image and perspective. They apply the basic principles of construction to create an illusion of a three-dimensional form. Students may take four drawing courses (ART 80, 81, 82, 85, 86, 88 or 186) for a maximum of 12 units. *NR*

## **ART 191 PORTFOLIO DEVELOPMENT**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU*

This course covers the development and presentation of a professional fine art and graphic design portfolio. Emphasis on the selection of appropriate work, conceptual improvement, and methods of presentation, including digital and traditional formats. Students will complete a professional resume, cover letter, and artist's statement suitable for transfer or the job market. ART 191 is also listed as DMA 191; credit will be given in either area, not both. *NR*

## **ART 195 ILLUSTRATION**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU*

*Prerequisite: ART 80*

*Recommended Preparation: ART 50 and ART 85*

This course introduces students to the fundamental principles and practices of illustration and the process of developing and communicating visual ideas and imagery. Emphasis is on refining the student's personal visual vocabulary and addressing practical issues within the professional world of illustration. ART 195 is also listed as DMA 195; credit will be given in either area, not both. *NR*

## Art History

### ARTH 1 HISTORY OF PHOTOGRAPHY

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course presents an overview of the history, technology, and aesthetics of the science/art of photography from the earliest experiments in the medium to the present. The course analyzes trends that led to the contemporary expression of the medium in the late twentieth century. Students must attend at least one major photography exhibition. This course is required of photography majors. ARTH 1 is also listed as PHOT 1; credit will be given in either area, not both. *NR*

### ARTH 4 INTRODUCTION TO ART THEORY

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Recommended Preparation: WR 1*

This course explores the fundamental elements and principles of art. It introduces the terms, theoretical methodologies and evaluative strategies used in the evaluation of art, various artistic media and artistic devices. The course addresses problems of organization and structure in a work of art as well as the relationship between a work of art and the social and intellectual context from which it emerges. Visits to off-campus galleries/museums may be required. *NR*

### ARTH 5 INTRODUCTION TO ART MEDIA

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This survey course is designed to give students a general introduction to the practices and processes of the major studio arts - drawing, painting, printmaking, crafts, photography, sculpture, and architecture - in an effort to increase their skills of recognition and observation when investigating art historical works. Through critical examination, formal observation, and process analysis, the course develops the student's ability to identify the unique characteristics of an aesthetic work and make the judgments necessary to formulate a critical assessment of a work of art or architecture. ARTH 5 was formerly offered as ARTH 104. *NR*

### ARTH 20 ART APPRECIATION

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Recommended Preparation: Completion of or concurrent enrollment in WR 1 or WR 1H*

This course provides a general introduction to the visual arts that offers a look at works of art and architecture through the study of theory, aesthetics, terminology, themes, design principles, media, techniques across time, global locations, and diverse cultures. The course includes the critical analysis of works of art as well as art historical methodology. Attendance at scheduled field trips may be required. C-ID: ARTH 100. *NR*

### ARTH 22 SURVEY OF ASIAN ART

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: ARTH 27 and WR 1 or WR 1H

This course is a chronological and comparative survey of the artistic traditions of India, Korea, China and Japan from prehistory to the twenty-first century. The course will examine Asian art and architecture within the cultural and historical framework in which they were produced. Attendance at scheduled field trips may be required. *NR*

**ARTH 23 AFRICAN AND OCEANIC ART****3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course is a chronological, thematic and comparative study of the indigenous art of sub-Saharan Africa, the African diaspora, Polynesia, Melanesia, Micronesia, and Australia. The course addresses prehistoric to contemporary forms of artistic expression in these regions within their historical, geographical, religious and sociocultural contexts. In addition, the course will assess the politics of colonialism, the impact of globalization, and the Western world's economic and religious hegemony over once self-reliant kingdoms and the states in the third world. *NR*

**ARTH 24 ANCIENT ART****3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course is a survey of the painting, sculpture, and architecture produced throughout the ancient world of the eastern Mediterranean and Near East. Beginning with the Neolithic peoples of Anatolia, the course examines the first great civilizations of Mesopotamia, the spread of the Bronze Age, and the increasing power of both Persian and Egyptian cultures. The investigation continues with the pre-classical and classical civilizations of the Aegean basin, and culminates with a survey of Roman expansion. Works of art and architecture are discussed in light of their unique cultural and historical context. *NR*

**ARTH 25 ART HISTORY SURVEY I: WESTERN****3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course is a chronological and comparative survey of the painting, sculpture, craft and architecture of the pre-modern, developing Western regions of the world: Prehistoric Europe, Mesopotamia, Egypt, the Greek and Roman worlds, and Medieval Europe. In addition, this course will investigate the Byzantine Empire and its influence on the art and architecture of Western Europe. Surveyed from prehistoric through late Middle Ages, these aesthetic works will be examined within the cultural and historical framework in which they were produced. Attendance at scheduled field trips may be required. C-ID: ARTH 110. *NR*

**ARTH 26 ART HISTORY SURVEY II: WESTERN****3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course is a chronological and comparative survey of the painting, sculpture, craft and architecture of the modern Western regions of the world: Renaissance Europe through the United States of the twentieth century. In addition, this course will investigate the new non-western model as it influences the art and architecture of modern Western Europe. Surveyed from the fourteenth through the twentieth centuries, these aesthetic works will be examined within the cultural and historical framework in which they were produced. Attendance at scheduled field trips may be required. C-ID: ARTH 120. *NR*

**ARTH 27 ART HISTORY SURVEY III: NON-WESTERN****3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course is a chronological and comparative survey of the painting, sculpture, craft and architecture of non-Western regions of the world: Asia, Africa, Oceania, and the Americas. In addition, the course investigates Islamic artistic expansion in the Near

East and its influence on the art and architecture of Spain. Aesthetic works from prehistoric to contemporary times are discussed in light of their unique cultural and historical context. *NR*

## **ARTH 28 CONTEMPORARY ART HISTORY**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Recommended Preparation: ARTH 26*

This course offers a historical perspective of art and architecture from circa 1940 through the twenty-first century. The course begins with an overview of the arts in Europe and America in the first half of the century and continues through the second World War, exploring stylistic changes that occurred with a quickening pace and came to define late modernism and postmodernism. The course concludes with an emphasis on contemporary issues in an ever-shrinking global artistic community. All works of art and architecture will be examined within the cultural and historical framework in which they are produced. Attendance at scheduled field trips may be required. *NR*

## **ARTH 29 19TH AND EARLY 20TH CENTURY ART**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course is a survey of the painting, sculpture, and architecture produced in Europe and America from the French Revolution to World War II. Beginning with the neoclassical movement of the late eighteenth century, the course examines the rise of modernity and its innovative assumptions about art, aesthetics, and criticism. The course concentrates on the evolution of the modern definition of art and how changing criteria modify the value of art to society. Works of art and architecture are discussed in light of their unique cultural and historical context. *NR*

## **ARTH 30 RENAISSANCE AND BAROQUE ART**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course is a survey of the painting, sculpture, and architecture produced throughout Europe between the fourteenth and eighteenth centuries. Beginning with the cultural changes of the late Gothic period, the course examines the reintroduction of the classical aesthetic by Renaissance artists, the rise of humanism, and the subsequent visual response of the Catholic Church to developing Protestant institutions during the Baroque period. The course concludes with a survey of late Baroque (Rococo) art as defined by the French court. Works of art and architecture are discussed in light of their unique cultural and historical context. *NR*

## **ARTH 31 MEDIEVAL ART**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course is a survey of European painting, sculpture, and architecture from the decline and fall of the Roman Empire through the rise of the great Gothic cathedrals. In addition, the course explores the Golden Age of Byzantium and its influences on the Latin West. The course investigates this epoch in history not as a "Dark Age" but rather as a major factor in the establishment and authority of Christianity throughout the world and today's organization of modern Europe. Works of art and architecture are discussed in light of their unique cultural and historical context. *NR*

## **ARTH 32 HISTORY OF WORLD ARCHITECTURE**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course is a chronological and comparative survey of world architecture and urban design from prehistory through the Modern World. Examples of the built environment and civic plans are discussed inside their unique aesthetic, cultural and historical contexts. Field trips may be required. *NR*



## **ARTH 50 HISTORY OF GRAPHIC DESIGN**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This concise history traces the development of graphic design from the invention of writing to the digital revolution. The course explores the origins of printing and book design from early medieval manuscripts to Renaissance, Victorian and Art Nouveau graphics, and the evolution of twentieth century design styles and theories from the modernist era through postmodernism and the digital age. ARTH 50 is also listed as DMA 50; credit will be given in either area, not both. ARTH 50 was formerly offered as ARTH 150. *NR*

## **ARTH 110 INTRODUCTION TO MUSEUMS**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

This course is designed to develop students' understanding of the dynamic and complex world of museums, past and present. It provides a broad introduction to a diverse range of museums and collections, including museums of art, science and history. The course examines the history of museums; how a museum runs, specifically focusing on the duties and responsibilities of museum staff and volunteers; museum management; virtual exhibitions; and museum careers. Attendance at scheduled field trips may be required. *NR*

## **ARTH 115 COLLECTIONS MANAGEMENT**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

This course provides an introduction to the practical applications of collections management, including how collections are developed, catalogued and used. The course examines the roles and responsibilities of those involved in collections management; acquisition and deaccession processes; record-keeping methodologies; and how objects and records are accessed for ongoing research and exhibitions. Field trips may be required. *NR*

## **ARTH 120 CURATORIAL PRACTICE**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

This course examines the roles and responsibilities of a museum curator. Topics include types of museum curators; the curatorial department and team; exhibition development, research, proposals, contracts, publicity, and supervision; and curatorial writing, research, and career preparation. Attendance at field trips may be required. *NR*

## **ARTH 125 VISITOR SERVICES AND MUSEUM EDUCATION**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

This course examines the roles and responsibilities of those involved in museum education and visitor services. Topics such as docent training, grade-based curriculum and methods for evaluating the visitor experience will be reinforced by examining the current trend of working museum professionals. Attendance at scheduled field trips may be required. *NR*

## **ARTH 127 EXHIBITION DEVELOPMENT-TECHNOLOGIES AND OBJECT HANDLING**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

ARTH 127 provides students with the best standards and practices in exhibition development, object handling and technologies. This course examines the complex collaborative team process necessary for exhibition development in a variety of settings such as galleries, science centers and museums. Attendance at field trips may be required. *NR*

## **ARTH 130 MUSEUM TECHNOLOGIES**

### **1 Unit - 1 hour lecture**

*Transfers: CSU*

This course examines the role of technology in museum careers. The course provides an overview of technologies used in museum website development, exhibition technology applications and collection databases. It is designed to develop the skills necessary to work in a variety of museum-related jobs. Attendance at scheduled field trips may be required. *NR*

## **ARTH 133 AMERICAN ART**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

This course surveys the major developments in American painting, sculpture, and architecture from the early settlement of North American to the conclusion of World War II. The course investigates the role visual culture has played in the United States as Americans have attempted to situate themselves culturally, economically, and politically within their own society and the world at large. Works of art and architecture are discussed in light of their unique cultural and historical context. *NR*

## **ARTH 135 ART HANDLING AND PREPARATOR STUDIES**

### **1 Unit - 1 hour lecture**

*Transfers: CSU*

This course is designed to provide students with the knowledge and skills to successfully handle museum collections in a wide range of circumstances such as packing, handling, exhibition installations and moving collections. The course examines the role of a museum preparator as it relates to the installation of collections for exhibitions. *NR*

## **ARTH 140 MUSEUM PUBLICITY AND MARKETING**

### **2 Units - 2 hours lecture**

*Transfers: CSU*

This course examines the components of museum publicity and the role of professional staff members in promotional campaigns. The course is designed to develop knowledge and skills in areas such as press writing and marketing development, and to prepare students to work successfully in a wide range of careers in museum publicity and marketing. Attendance at scheduled field trips may be required. *NR*

## **ARTH 145 MUSEUM FUNDRAISING AND DEVELOPMENT**

### **1 Unit - 1 hour lecture**

*Transfers: CSU*

This course examines the roles and responsibilities of a museum fundraiser and/or development officer. Students will learn how museums develop museum memberships, and other donor relationships. This course is a required course for a certificate of achievement in applied museum studies and for the certificate of proficiency in Museum Marketing and Publicity. Attendance at scheduled field trips may be required. *NR*

## **ARTH 168 COOPERATIVE WORK EXPERIENCE: APPLIED MUSEUM STUDIES**

### **1 Unit - 1 hour lab**

*Transfers: CSU*

*Prerequisite:* Student must have completed 9 units in the Applied Museum Studies Program.

*Limitation:* Students must be concurrently enrolled in 7 units, including *CWE*. Application must be approved by *CWE* coordinator.

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer

will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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. *NR*

## Astronomy

### ASTR 20 GENERAL ASTRONOMY

#### 3 Units - 3 hours lecture

*Transfers: CSU, UC*

This introductory course traces the development of astronomy from ancient times to the present. The course examines the solar system, including the moon, sun, and planets; the composition and evolution of stars and galaxies; and theories of the origin of the universe. Field trips may be required to fulfill the objectives of this course. *NR*

### ASTR 25 OBSERVATIONAL ASTRONOMY

#### 3 Units - 2 hours lecture, 3 hours lab

*Transfers: CSU, UC*

This course is designed primarily to acquaint students with astronomical measurements, instruments and techniques. Students will use telescopes, spectroscopes and other instrumentation to observe and study the moon, planets, stars, binary and multiple stars, star clusters, nebulae, and galaxies. Field trips may be required to fulfill the course objectives. *NR*

## Biology

### BIO 1 THE LIFE SCIENCES

#### 3 Units - 3 hours lecture

*Transfers: CSU, UC*

This course is an integrated survey of the major principles of biology. Students focus on cellular and molecular biology, physiology, reproduction, genetics, evolution, population biology, and ecology. This course is recommended for students seeking to fulfill the general education requirement in life sciences or as an introductory course for students pursuing advanced study in life sciences. Credit may be earned in either BIO 1 or 1H, but not both. *NR*

### BIO 1H THE LIFE SCIENCES HONORS

#### 3 Units - 3 hours lecture

*Transfers: CSU, UC*

This Honors course is an integrated survey of the major principles of biology. Students focus on cellular and molecular biology, biochemistry, reproduction, genetics, evolution, population biology, and ecology. This course is recommended for students seeking to fulfill the general education requirement in life sciences or as an introductory course for students pursuing advanced study in life sciences. In this Honors course, students are expected read and summarize topical articles, perform literature searches and reviews, and complete associated writing assignments. Credit may be earned in either BIO 1 or 1H, but not both. *NR*

### BIO 1L THE LIFE SCIENCES LABORATORY

#### 1 Unit - 3 hours lab

*Transfers: CSU, UC*

*Prerequisite: Prior completion of or concurrent enrollment in BIO 1*

Recommended Preparation: Prior completion of or concurrent enrollment in BIO 1 or BIO 1H, or BIO 3 strongly recommended  
This is a laboratory survey of the major principles of biology. It is the recommended course to accompany BIO 1. Topics include the application of laboratory equipment and procedures to the investigation of biological systems from the biochemical, cellular,

organismal, ecological, and evolutionary perspective. This course does not include animal dissections. Students may take BIO 1L independently or concurrently with the BIO 1 or BIO 1H lecture, but not prior to either. Field trips may be required to fulfill the course objectives. *NR*

## **BIO 2 PLANT BIOLOGY**

**4 Units - 3 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

Prerequisite: BIO 1 and MATH 253

This course presents the structure, function, diversity and phylogeny of plant, fungal, and protistan taxa. Topics include comparative plant structure and function, physiology, development, evolution, phylogeny, and taxonomy. Principles of population, community, and ecosystem ecology are emphasized. The laboratory component of the course emphasizes observation, experimentation, and field techniques. Field trips may be required to fulfill course objectives. C-ID: BIOL 155. *NR*

## **BIO 3 HUMANS AND THE BIOLOGICAL WORLD**

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This general education course examines the basic principles of the biological sciences as it relates to humans. Topics range from cellular biology, physiology, genetics, evolution, ecology and the environment. This course is intended for those non-majors students seeking a comprehensive course in the biological sciences. *NR*

## **BIO 4 RESEARCH METHODS IN THE BIOLOGICAL SCIENCES**

**2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

Prerequisite: BIO 1 and BIO 1L

*Limitation: Permission by the instructor.*

Recommended Preparation: MATH 10

This course instructs students in the fundamentals of biological research methodologies. Students will be introduced to the Scientific Method, scientific literature searches and critiques, the design and implementation of biological experimentation, the analysis of results, and the preparation of a report of findings. Students will conclude their coursework by performing their own biological research project. *NR*

## **BIO 5 ANIMAL BIOLOGY**

**4 Units - 3 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

Prerequisite: MATH 253 and BIO 1 or BIO 1H

This course is a survey of protozoans and animals. Lectures focus on the form and function, physiology, development, classification, evolution, ecology, behavior, and natural history of major animal and protozoan taxa. Field trips may be required to fulfill the course objectives. C-ID: BIOL 150. *NR*

## **BIO 10 BIOCHEMISTRY FOR HEALTH SCIENCES**

**4 Units - 3 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: MATH 350A, MATH 350B, MATH 350C, MATH 350D, MATH 350E, MATH 350F, MATH 350G, MATH 350H*

This course addresses the application of chemical principles to biological systems, especially at the cellular level of structure and function. Essential topics include the nature of biologically important solutions and colloids; structure, functions and interactions of biological macromolecules; interactions of biological molecules in formation and functions of biological membranes;

intracellular metabolism and enzyme functions; and genetic control of biological functions. The course is intended for health science students who have no previous background in sciences. *NR*

## **BIO 11 HUMAN ANATOMY**

**4 Units - 2 hours lecture, 6 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: WR 1

This course presents an analysis of human structure integrating cellular, tissue, organ, and organ system levels of structure and relates structure to function. Laboratory emphasis is on histology and gross anatomy. The course is designed for pre-professional students and biology majors. C-ID: BIOL 110B. *NR*

## **BIO 12 HUMAN PHYSIOLOGY**

**4 Units - 3 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

*Prerequisite: BIO 11 and either BIO 10 or CHEM 4*

*Recommended Preparation: WR 1 and MATH 253*

This course applies an integrated systems approach to the study of function in the human body. Emphasis is on major organ systems, their negative feedback controls, and their significance in maintaining homeostasis of the whole body. Each system is analyzed at the molecular, cellular, tissue and organ levels of function. The lab component of the course emphasizes experimental design, data collection and analysis, and evaluation and interpretation of experimental results. C-ID: BIOL 120B. *NR*

## **BIO 12D HUMAN PHYSIOLOGY - DISCUSSION**

**1 Unit - 1 hour lecture**

*Transfers: CSU, UC*

*Corequisite: BIO 12*

This discussion course affords students enrolled in Biology 12, Human Physiology, the opportunity to discuss, analyze, and exchange ideas concerning human function. Discussions focus on negative feedback control systems and other key topics covered in BIO 12, as well as background information not generally covered in the lecture. BIO 12D is offered on a pass/no-pass basis only. *NR*

## **BIO 14 ADVANCED RESEARCH IN BIOLOGICAL AND HEALTH SCIENCES**

**2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

*Prerequisite: BIO 4*

This course provides more advanced training in the design and implementation of laboratory and field research in the biological and health sciences. Its focus is on more complex protocol, experimental design and instrumentation. Students will be introduced to more advanced statistical tests and prepare a final manuscript of findings. Students will also be required to report their findings at a special student research symposium at the conclusion of the semester. *NR*

## **BIO 15 GENERAL MICROBIOLOGY**

**5 Units - 3 hours lecture, 6 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: BIO 10 and BIO 11*

This course is an examination of the fundamental biological concepts as they apply to viruses, bacteria, fungi, and protozoans. Theoretical as well as practical applications are discussed in such topics as bacterial morphology, metabolism, genetics, chemotherapy, and antibiotics. Also discussed are resistance and immunity, health and disease, and the role of microorganisms in the environment. Laboratory work will reinforce topics covered in lecture. Field trips may be required to fulfill course objectives. *NR*

## **BIO 16 CELLULAR BIOLOGY**

**4 Units - 3 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

*Prerequisite: CHEM 1A*

*Recommended Preparation: WR 1*

This course, intended for majors but open to all students, will cover principles and applications of prokaryotic and eukaryotic cell structure and function, biological molecules, homeostasis, cell reproduction and its controls, molecular genetics, classical /Mendelian genetics, cell metabolism including photosynthesis and respiration, and cellular communication. The philosophy of science, methods of scientific inquiry and experimental design are foundational to the course. C-ID: BIOL 190. *NR*

## **BIO 19 MARINE BIOLOGY**

**4 Units - 3 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

This course presents the biology and natural history of marine organisms within an ecological context. A habitat approach emphasizes the physical features of each marine environment, the community structure of the habitat and adaptations of the constituent organisms. Emphasis is on California marine life. The laboratory component of the course emphasizes observation and experimentation. Experiments address general biological/ecological principles in the context of the marine environment. Students study the classification, anatomy, physiology and behavior of marine organisms. Field trips, an integral part of the course, focus on the structure of marine ecosystems. Credit may be earned in either BIO 19 or BIO 19H, but not both. *NR*

## **BIO 19H MARINE BIOLOGY HONORS**

**4 Units - 3 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

Marine Biology Honors presents the biology and natural history of marine organisms. A habitat approach emphasizes the physical features of each marine environment, the community structure of the habitat and adaptations of organisms. Emphasis is on California marine life. The laboratory component of the course emphasizes observation and experimentation. Experiments address general biological principles in the context of the marine environment. Students study the classification, anatomy, physiology and behavior of marine organisms. Field trips focus on the structure of marine ecosystems. This honors course is enriched through additional reading of primary literature, critical thinking, investigative experimentation, and a research presentation. Credit may be earned in either BIO 19 or BIO 19H, but not both. *NR*

## **BIO 30 CALIFORNIA WILDLIFE AND WILDLANDS**

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This lecture course introduces students to the natural history of California flora and fauna in the context of the many ecosystems that occur in the state. The course presents both ecological and evolutionary perspectives as it examines the role of climate, geology, species interactions, and adaptation in creating California's world famous biodiversity. The course includes both prehistoric and historical changes to California wildlands and the role humans have played in shaping the current landscape. Field trips may be required to fulfill course objectives. *NR*

## **BIO 32 MICROORGANISMS AND YOU: ALLIES OR ENEMIES**

**4 Units - 3 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

This general survey course explores the complex role of microbes in keeping us alive, making us sick, supplying our food, and regulating our biosphere. The course investigates the types and diverse habitats of microbes; their mutations and adaptations; and their impact on medicine, public health, and the environment. The course is intended for non-science majors and is not applicable for allied health majors. *NR*

## **BIO 43 BEING AN ANIMAL: THE SCIENCE OF ANIMAL BEHAVIOR**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course offers an integrated analysis of the physiological, ecological and evolutionary bases of animal behavior. The course considers in detail the psychobiological, ecological, developmental and sociobiological determinants of animal behavior in the context of adaptive evolution. Field trips may be required to fulfill course objectives. *NR*

## **BIO 44 BIOLOGY OF HUMAN SEXUALITY**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course provides a thorough introduction to the development and practice of sexuality in humans. Topics include biochemical function, developmental and sexual differentiation from fertilization through the age of 16 years, and psychosexual and physiological development from birth through adulthood. Field trips may be required to fulfill the objectives of this course. *NR*

## **BIO 55 INTRODUCTION TO ECOLOGY: THEORY AND APPLICATION**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course examines the interactions between organisms and their abiotic and biotic environments from an ecological, physiological, and evolutionary perspective. Topics include evolutionary ecology, behavioral ecology, the physical environment and adaptive responses to environmental challenges, population biology, community interactions and dynamics, species diversity, ecosystem ecology, and human impacts to ecological systems. Field trips may be required. *NR*

## **BIO 71 STEM CELLS AND SOCIETY**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course offers an introduction to stem cell research, including the origins and potential uses of stem cells in medicine, research, reproduction, agriculture, environment preservation, and other applications. Course topics include different sources and forms of stem cells, the technologies used to generate these remarkable cells, their use in a wide variety of fields, and the ethical and social concerns that have been and continue to be raised about the use of stem cells and related biotechnologies. This course is intended for majors and non-majors. *NR*

## **BIO 72 HUMAN GENETICS AND MEDICINE**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: MATH 253

This course offers an introduction to basic genetic concepts as they apply to humans. The course analyzes genetic pedigrees and hereditary relationships, genetic maps, genes, chromosomes, molecular aspects of human diseases and disorders related to genetics, and the role of databases including the Human Genome Project in forensics and medicine. Discussions include future potentials, as well as legal and ethical considerations, of genetic analysis and "genetic engineering." Intended for both majors and non-majors. *NR*

## **BIO 80 INTEGRATED BIOLOGY: ORGANISMS TO ECOSYSTEMS**

### **4 Units - 3 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

This course introduces students to the diversity of life and provides the framework to understand its origins from underlying processes in organic evolution. Topics include natural selection, population genetics, systematics, speciation, history of life of

Earth, morphological, physiological, and behavioral adaptation, and the principles of evolutionary ecology. Field trips may be required to fulfill objectives of this course. BIO 80 was formerly offered as BIO 94. C-ID: BIOL 140. NR

## **BIO 81 INTEGRATED BIOLOGY: FROM DNA TO ORGANISMS**

**4 Units - 3 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

*Prerequisite: CHEM 1A*

*Recommended Preparation: High school biology or chemistry*

This combined lecture and lab course integrates four broadly defined levels of organismal structure and function into a coherent framework. Biochemistry, cell biology, genetics, and organismal structure and function (with emphasis on organ systems and physiology) are woven together using basic themes of structural/functional hierarchy, energetics, and information flow. BIO 81 was formerly offered as BIO 93. NR

## **BIO 93L INTEGRATED BIOLOGY-FROM DNA TO ORGANISMS LABORATORY**

**1 Unit - 3 hours lab**

*Transfers: CSU, UC*

*Prerequisite: BIO 93*

*Recommended Preparation: WR 1 or 1H*

The emphasis of this laboratory course is on experimental design, hypothesis testing, data collection and analysis, and interpretation/ evaluation of data. Laboratory experiments focus on the principles of cellular and molecular biology, biochemistry and genetics, along with integration of these principle areas to effect whole organism function. This course is specifically for students who have previously completed the lecture only BIO 93. NR

## **BIO 97 GENETICS AND EVOLUTIONARY BIOLOGY**

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Prerequisite: CHEM 1B, BIO 80 and BIO 81*

This course is a comprehensive survey of genetics. Through an examination of current and historical experimental evidence, students evaluate the basic tenets of molecular, transmission, and population genetics, and use the science of genetics to appraise the relationship of genetics to the processes and products of microevolution and macroevolution. Topics include molecular aspects of DNA replication and gene expression including RNA and protein biosynthesis; genetic code and organization of genome; regulation of expression of genetic information; cell division; genetic recombination and mutation in prokaryotes and eukaryotes; and biochemical evolution as it relates to microevolution and macroevolution. NR

## **BIO 97L GENETICS AND EVOLUTIONARY BIOLOGY LABORATORY**

**1 Unit - 3 hours lab**

*Transfers: CSU, UC*

*Corequisite: BIO 97*

This course is the laboratory companion to Biology 97. It is designed to introduce students to the techniques of classical and modern genetic analysis. Techniques may include gel electrophoresis; spectrophotometry; gene transfer; polymerase chain reaction; DNA fingerprinting, analysis of mating outcomes, and analysis of simulated systems. The primary emphasis is on analysis of diverse genetic systems and approaches. NR

## **BIO 99 MOLECULAR BIOLOGY AND BIOCHEMISTRY**

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Prerequisite: BIO 97 and CHEM 12A*

This course focuses on the structure and functions of major classes of intracellular macromolecules; the metabolic pathways for



the synthesis, degradation, and interconversion of carbohydrates, lipids, and proteins; and the molecular mechanisms which control and direct intracellular metabolic processes. Concepts and theories of molecular evolution are also considered. The course assumes prior knowledge of the structure and expression of genetic information. *NR*

## **BIO 99L MOLECULAR BIOLOGY LABORATORY**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

*Prerequisite: Prior completion of or concurrent enrollment in BIO 99*

This course is the laboratory companion to the Biology 99 lecture course. It is designed to introduce students to the techniques of modern cell biology as they relate to the study of intracellular structure and function, genetic expression and transmission, and cell-environment interactions. Techniques may include organelle and macro-molecule isolation and purification; chromatography; electrophoresis; spectrophotometry; enzymology; histology; cytochemistry; gene transfer; polymerase chain reaction; DNA fingerprinting; immunology and cell culture and cloning. *NR*

## **BIO 101 FIELD STUDIES: COASTAL MARINE ECOSYSTEMS**

### **1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU*

*Limitation: Students must be able to hike, camp (tents, sleeping bags, limited showers, camp cooking) and traverse rocky intertidal habitats.*

*Recommended Preparation: An introductory college-level biology course and WR 1*

This field course introduces students to interrelationships among plant/animal communities and physical environments that characterize coastal marine ecosystems. Topics will include natural history, ecology and diversity of coastal and island flora and human impacts to coastal and island ecosystems. Introductory lectures complement direct field observations and field experiments, data collection and analysis. The course is taught primarily in the field. It is intended for both science majors and non-majors. Students are limited to taking four field study courses in life sciences (BIO 101, BIO 102, BIO 103, BIO 104, BIO 105, or BIO 109) for a maximum of 5 units. *NR*

## **BIO 102 FIELD STUDIES: ISLAND ECOSYSTEMS**

### **1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU*

*Limitation: Students must be able to travel by boat, hike, camp (tents, sleeping bags, limited facilities, etc.) and traverse steep and/or rocky habitats.*

*Recommended Preparation: An introductory college level biology course or BIO 30 and WR 1*

This field course introduces students to island ecosystem and the interrelationships among plant and animal communities and the physical environments that characterize island ecosystems. Topics will include natural history, ecology and diversity of island flora and fauna, and human impacts to island ecosystems. The course is taught primarily in the field. It is intended for both science majors and non-majors. Students are limited to taking four field study courses in life sciences (BIO 101, BIO 102, BIO 103, BIO 104, BIO 105, or BIO 109) for a maximum of 5 units. *NR*

## **BIO 103 FIELD STUDIES: MOUNTAIN ECOSYSTEMS**

### **1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU*

*Limitation: Students must be able to hike, camp (tents, sleeping bags, limited showers, camp cooking) and traverse steep and/or rocky trails.*

*Recommended Preparation: An introductory college-level biology course or BIO 30 and WR 1*

This field course introduces students to interrelationships among plant/animal communities and physical environments that characterize mountain habitats. Topics will include natural history, ecology and diversity of mountain flora and fauna, and human impacts to mountain ecosystems. Introductory lectures complement direct field observations and experiments, data collection and analysis. The course is taught primarily in the field. It is intended for both science majors and non-majors. Students are limited to

taking four field study courses in life sciences (BIO 101, BIO 102, BIO 103, BIO 104, BIO 105, or BIO 109) for a maximum of 5 units. *NR*

## **BIO 104 FIELD STUDIES: DESERT ECOSYSTEMS**

### **1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU*

*Limitation: Students must be able to hike narrow desert trails and camp (tents, sleeping bags, cooking, limited showers)*

*Recommended Preparation: An introductory college-level biology course and WR 1*

This field course introduces students to interrelationships among plant/animal communities and physical environments that characterize desert habitats. Topics will include natural history, ecology and diversity of desert flora and fauna, and human impacts to desert ecosystems. Introductory lectures complement direct field observations and experiments, data collection and analysis. The course is taught primarily in the field. It is intended for both science majors and non-majors. Students are limited to taking four field study courses in life sciences (BIO 101, BIO 102, BIO 103, BIO 104, BIO 105, or BIO 109) for a maximum of 5 units. *NR*

## **BIO 105 FIELD STUDIES: VALLEY AND GRASSLAND ECOSYSTEMS**

### **1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU*

*Limitation: Students must be able to travel, hike, camp, and traverse rocky and/or steep trails.*

*Recommended Preparation: BIO 1 and/or BIO 30 and WR 1*

This field course introduces students to the valley and grassland ecosystems of California. The course emphasizes interrelationships among plant/animal communities and physical environments that characterize valley and grassland ecosystems. Topics will include natural history, ecology, diversity, and human impacts. Introductory lectures complement direct field observations and field experiments, data collection and analysis. The course is taught primarily in the field. It is intended for both science majors and non-majors. Students are limited to taking four field study courses in life sciences (BIO 101, BIO 102, BIO 103, BIO 104, BIO 105, or BIO 109) for a maximum of 5 units. *NR*

## **BIO 109 FIELD STUDIES: A 21ST CENTURY LOOK AT THE AMERICAN WEST**

### **2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU*

*Limitation: Students must be able to hike cross-country/narrow trails and camp (tents, sleeping bags, cooking, limited showers)*

*Recommended Preparation: Introductory college-level biology courses and WR 1*

This field course introduces students to the flora and fauna of selected natural sites that have been the focus of influential natural history writers over the last 200 years. The course is taught as an expedition, as students plan and implement a trek to these sites, compare the flora and fauna of today to that described in historical books and essays, and prepare their own natural history journals. Introductory lectures in natural history, biology, ecology, and community structure complement direct field experiences. It is intended for both science majors and non-majors. Students are limited to taking four field study courses in life sciences (BIO 101, BIO 102, BIO 103, BIO 104, BIO 105 or BIO 109) for a maximum of 5 units. *NR*

## **BIO 121 HUMAN ANATOMY AND PHYSIOLOGY**

### **4 Units - 3 hours lecture, 3 hours lab**

*Transfers: CSU*

*Recommended Preparation: High school biology and eligibility for college-level writing.*

This basic course shows the interrelationships between the anatomical and physiological systems of humans. The course presents an analysis that integrates cellular, tissue, organ, and organ system levels of structure and relates structure to function. Laboratory emphasis is on the histology, gross anatomy, and physiology of major systems. This course does not meet the requirements of either anatomy or physiology for nursing students or biology majors. *NR*

## **BIO 167 COOPERATIVE WORK EXPERIENCE: BIOLOGY**

### **1 Unit - 1 hour lab**

*Transfers: CSU*

*Prerequisite: Student must have taken or must be currently taking a college-level course in life sciences, biology and/or environmental science.*

*Limitation: Students must be concurrently enrolled in 7 units, including BIO 167. Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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. *NR*

## **BIO 200 HUMAN PROSECTION**

### **2 Units - 1 hour lecture, 3 hours lab**

*Prerequisite: BIO 11*

This course focuses on the gross anatomy of major organs and organ systems of the human body. The course presents detailed regional dissections using human cadaveric specimens. Emphasis is placed on dissection techniques. *NR*

# **Biotechnology**

## **BIOT 70 INTRODUCTION TO BIOTECHNOLOGY**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Biotechnology is the use of microorganisms or biological substances, such as enzymes, to solve problems, develop or make useful products, perform specific industrial or manufacturing processes such as the bio-conversion of organic waste and the use of genetically altered bacteria in the cleanup of oil spills. This course is an introduction to the field of biotechnology including a history of its origin and development, a survey of modern industrial applications and accomplishments, ethical considerations, and career paths. Industry practices and ethics will be emphasized. Field trips may be required. *NR*

## **BIOT 70L INTRODUCTORY BIOTECHNOLOGY LABORATORY**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

*Prerequisite: Prior completion of or concurrent enrollment in BIOT 70*

This laboratory course addresses basic skills and techniques common to the biotechnology industry. Topics include measurement of activity and quantity of proteins, growth and manipulation of bacteria, genetic engineering and antibody methods. This course is intended for students majoring in applied biotechnology and is the recommended course to accompany BIOT 70. *NR*

## **BIOT 273 BIOTECHNOLOGY A: BASIC LAB SKILLS**

### **4 Units - 3 hours lecture, 3 hours lab**

*Recommended Preparation: BIO 10 and BIOT 70*

Biotechnology transforms knowledge that emerges from life science research into products of value to people. This course provides students with a foundation in techniques necessary to work as effective professionals in a biotechnology laboratory or production facility. Emphasis placed on metrology (the study of measurement), solution preparation and sterilization, aseptic technique, performing assays and basic biological separation methods. The course integrates ethical considerations along with product quality systems documentation; trouble-shooting; calibration, accuracy and precision error reduction. Integrating a

"quality-mind-set" into their laboratory work is important for students who plan to work in a biotechnology company or someday aspire to generate meaningful results in a research environment. *NR*

## **BIOT 274 BIOTECHNOLOGY B: PROTEINS**

### **4 Units - 3 hours lecture, 3 hours lab**

Prerequisite: BIOT 273

Students will learn fundamental skills applicable to any biotechnology laboratory with particular focus on downstream manufacturing processes in bio-manufacturing. Skills include maintenance of an industry standard notebook, preparation and sterilization of solutions, reagents and media; utilization of good aseptic technique, proper use and maintenance of laboratory equipment, adherence to quality control protocols, lab safety regulations, in vitro translation, large scale protein expression and purification, modification, western blot analysis, ELISA, antibody tagging and fluorescent microscopy. Compliance with industry standards and regulations will be incorporated into course procedures. *NR*

## **BIOT 275 BIOTECHNOLOGY C-NUCLEIC ACIDS**

### **4 Units - 3 hours lecture, 3 hours lab**

Prerequisite: BIOT 273

Nucleic acids are organic molecules that allow organisms to transfer genetic information from one generation to the next. This course provides students with advanced laboratory skills needed for employment in the biotechnology industry. Students will be re-introduced to the basic concepts of molecular biology including DNA structure and function as well as the process and controls of gene expression. Techniques include DNA isolation, purification and sequencing, gel electrophoresis, fluorescence in situ hybridization and Southern Blot analysis, DNA restriction/fingerprinting, cloning (transformation and screening) and real-time PCR. Maintenance of an industry standard notebook, application of SOP and instrument maintenance and care emphasized. Students will also be introduced to the field of bioinformatics. *NR*

## **BIOT 276 QUALITY AND REGULATORY COMPLIANCE IN BIOSCIENCE**

### **2 Units - 2 hours lecture**

Recommended Preparation: BIOT 70

This course will cover quality assurance and regulatory compliance for the bioscience industries. Topics will span quality control and FDA, USDA, EPA, MSP, OSHA and EPA regulations for the biotechnology, biopharmaceutical, biomedical devices and food industries. Theories and applications of quality assurance and quality control will be presented and several different quality systems will be discussed such as CAPA and cGMP (good manufacturing practices), ISO9000, ISO1435 (International Standards Organization). Six Sigma and Lean, OSHA and Industry safety. *NR*

## **BIOT 277 BIOTECHNOLOGY: CELL CULTURE**

### **2 Units - 1 hour lecture, 3 hours lab**

Prerequisite: BIO 10 and BIO 15

This course provides theoretical and practical knowledge and skills on how to culture Eukaryotic cells. Students acquire practical and theoretical knowledge of the structure, equipment and sterile techniques of the cell culture laboratory, the growth conditions of cells and how scientists attempt to mimic this in cultures. Among the topics covered are: the composition of cell culture media, establishment of primary cultures and cell lines from normal tissue and cancer tissue, routine cultivation of cells, long term storage, contamination, various methods for characterization of cells, transfection, and the use of cells in culture to resolve various issues in basic and applied research. *NR*

## **BIOT 278 QUALITY IMPROVEMENT ASSOCIATE CERTIFICATION PREP.**

### **3 Units - 3 hours lecture**

Recommended Preparation: BIOT 276

This course introduces the basics of quality assurance in industry. This course prepares students to take and pass the Certified Quality Improvement Associate (CQIA) examination given by the American Society of Quality (ASQ). *NR*

## **BIOT 279 QUALITY ASSURANCE OF MEDICAL DEVICES**

**4 Units - 3 hours lecture, 3 hours lab**

Recommended Preparation: BIOT 275

Medical device manufacturers are always working to balance the demands of meeting government regulations and containing production costs, in an effort to produce the most reliable and safest medical devices. This course is designed to introduce the basic elements of medical device quality initiatives and quality-control methodologies to ensure compliance with federal guidelines for individuals working with medical devices in the biomanufacturing industry. *NR*

# **Chemistry**

## **CHEM 1A GENERAL CHEMISTRY I**

**5 Units - 3 hours lecture, 6 hours lab**

*Transfers: CSU, UC*

Prerequisite: MATH 2

*Recommended Preparation: Recent completion of CHEM 3*

This is the first semester of a one-year course in chemistry intended for but not limited to majors in the natural sciences (chemistry, biochemistry, biology, physics, pre-medicine), mathematics, and engineering. Topics include nomenclature, stoichiometry, gas laws, bonding, atomic theory, quantum theory, thermochemistry, liquids, solids, and solutions. CHEM 1A is part of the General Chemistry course sequence. It is recommended that CHEM 1A and CHEM 1B be completed at a single institution before transfer. C-ID: CHEM 110. *NR*

## **CHEM 1B GENERAL CHEMISTRY II**

**5 Units - 3 hours lecture, 6 hours lab**

*Transfers: CSU, UC*

*Prerequisite: CHEM 1A*

This is the second semester of a one-year course in chemistry intended for majors in the natural sciences (chemistry, biochemistry, physics, pre-medicine), allied health, mathematics, and engineering. Topics include chemical kinetics, chemical equilibrium, thermodynamics, electrochemistry, coordination chemistry, and nuclear chemistry. CHEM 1B is part of the one year General Chemistry course sequence. It is recommended that CHEM 1A and CHEM 1B be completed at a single institution before transfer. *NR*

## **CHEM 3 FUNDAMENTAL CHEMISTRY**

**4 Units - 3 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

Prerequisite: MATH 253

This course is a study of the basic principles of chemistry. It is designed especially for the student who intends to take Chemistry 1A but needs more preparation. Topics include problem-solving and calculation methods, nomenclature, chemical formulas, chemical equations, stoichiometry, thermochemistry, atomic and molecular structure, bonding, gases, solutions, acids, and bases. Laboratory activities will familiarize students with the use of basic equipment. *NR*

## **CHEM 4 INTRODUCTION TO GENERAL & ORGANIC CHEMISTRY & BIOCHEMISTRY**

**5 Units - 4 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

This course introduces major topics of general and organic chemistry, and biochemistry. The course is designed primarily for students planning to enter a nursing program, an allied health or paramedical field, the liberal arts, or environmental technology. The following topics are included: measurements, atomic structure, bonding, nomenclature, solutions, kinetics, thermochemistry,

nuclear chemistry, equilibrium, acids and bases, carbohydrates, lipids, proteins, enzymes, nucleic acids, and organic chemistry, including common functional groups, nomenclature, and reactions. *NR*

## **CHEM 12A ORGANIC CHEMISTRY**

**5 Units - 3 hours lecture, 6 hours lab**

*Transfers: CSU, UC*

*Prerequisite: CHEM 1B*

This is a study of the principles, theories, and reactions of organic chemistry with an emphasis on the relations of structure and reactivity. The course is recommended for students whose major is chemistry or a related field such as medicine, dentistry, pharmacy, biology, biochemistry, or chemical engineering. The following topics are included: stereochemistry, aliphatic and aromatic compounds, preparations and reactions of certain organic compound families, and spectroscopic methods. C-ID: CHEM 150. *NR*

## **CHEM 12B ORGANIC CHEMISTRY**

**5 Units - 3 hours lecture, 6 hours lab**

*Transfers: CSU, UC*

*Prerequisite: CHEM 12A*

CHEM 12B is a continuation of CHEM 12A and meets the organic chemistry lecture/lab requirement for UC transfer; it is equivalent in units and content to CHEM 13 and 13L. Students planning to transfer to a CSU may take CHEM 13 with or without CHEM 13L. The course covers preparations and reactions of certain organic compound families, including aromatic, polynuclear, heterocyclic, carbonyl-containing compounds, polymers, carbohydrates, amino acids, and proteins. C-ID: CHEM 160. *NR*

# **Chinese**

## **CHI 1 BEGINNING CHINESE I**

**5 Units - 5 hours lecture**

*Transfers: CSU, UC*

This course is designed to develop the fundamental communication skills in Mandarin Chinese, including listening, comprehension, reading and basic conversation. The emphasis is on the comprehension of native spoken and written Chinese. The course introduces Chinese characters and the pronunciation system. It also presents general aspects of Chinese daily life and culture. Throughout the course, the role of grammar is secondary to that of acquiring basic competency in reading, writing, and speaking Chinese and inferring its meaning. CHI 1 is equivalent to two years of high school Chinese. *NR*

## **CHI 2 BEGINNING CHINESE II**

**5 Units - 5 hours lecture**

*Transfers: CSU, UC*

*Prerequisite: CHI 1 or two years of high school Chinese*

This course is designed to continue the development of fundamental communication skills in CHI 1, including further mastery of the pronunciation system and additional Chinese characters. Students engage in communicative tasks by increasing their listening, speaking, reading, and writing proficiency. The course presents more complex language structures and further explores aspects of Chinese daily life, culture and customs. Classes are conducted in Chinese. *NR*

## **CHI 3 INTERMEDIATE CHINESE I**

**5 Units - 5 hours lecture**

*Transfers: CSU, UC*

*Prerequisite: CHI 2 or CHI 2B or three years of high school Chinese*

Recommended Preparation: Be able to recognize 800 Chinese characters, compose a written paragraph of 250 Chinese characters, and interpret spoken Chinese and respond to questions

Chinese 3 builds on language skills developed in Chinese 1 and 2. It is designed to further the student's ability to comprehend and converse in Mandarin Chinese, build vocabulary, and extend reading and writing skills. There is an increased emphasis on complex sentence structures and idiomatic expressions. The course also elaborates on Chinese customs and culture. CHI 3 is conducted in Chinese. *NR*

## **CHI 180 CHINESE LANGUAGE CONFERENCE**

### **0.5 Unit - 1.5 hours learning center**

*Transfers: CSU*

*Corequisite: CHI 1, CHI 2 or CHI 3*

This open-entry/open-exit, pass/no-pass course offers conference instruction with Chinese language instructors for students enrolled in specified corequisite courses. The course focus is on exercises and assignments to improve students' speaking, listening, reading, writing, and grammar skills in native Chinese. Students must complete at least 24 hours in the Languages Center during the semester and participate in no less than four conferences in order to receive credit. *R-E-3*

## **Communication Studies**

### **COMM 1 COMMUNICATION FUNDAMENTALS**

#### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course offers students an opportunity to understand and use the components and processes of oral communication. The course is designed to develop fundamental skills in effective listening; selecting and researching topics; organizing and supporting ideas; preparing and presenting informative and persuasive speeches; and evaluating speech content and delivery. Student presentations are required. Credit may be earned in either COMM 1 or COMM 1H, but not both. C-ID: COMM 110. *NR*

### **COMM 1H COMMUNICATION FUNDAMENTALS HONORS**

#### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course offers students an opportunity to understand and use the components and processes of oral communication. The course is designed to develop fundamental skills in effective listening; selecting and researching topics; organizing and supporting ideas; preparing and presenting informative and persuasive speeches; and evaluating speech content and delivery. Student presentations are required. This honors course is enriched through extensive collaboration and a required off-campus forensics speaking event. Credit may be earned in either COMM 1 or COMM 1H, but not both. C-ID: COMM 110. *NR*

### **COMM 2 PERSUASION**

#### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Prerequisite: COMM 1*

This course examines the components of persuasive messages. The course focuses 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. C-ID: COMM 190. *NR*

### **COMM 3 ARGUMENTATION AND DEBATE**

#### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Prerequisite: COMM 1*

This course focuses on the application of argumentative methods, analysis, sound reasoning, and critical thinking. Students participate in various types of debates on current topics, conducting research, formulating propositions, and discovering issues as they apply to social and personal decision making. C-ID: COMM 120. *NR*

## **COMM 5 INTERPERSONAL COMMUNICATION**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course focuses on relational situations and communication theories, strategies, and behaviors. The course examines the foundations and contexts of interpersonal relations, and verbal and nonverbal skills that may be applied to overcome barriers and improve communications. C-ID: COMM 130. *NR*

## **COMM 9 INTERCULTURAL COMMUNICATION**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course is designed to give students a better understanding of the relationship between culture and communication and how the markings of culture and perception impact patterns of interaction. The course will familiarize students with the theory and process of communicating with people whose culture, ethnicity, or race differs from their own. C-ID: COMM 150. *NR*

## **COMM 30 INTRODUCTION TO ORAL INTERPRETATION**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This is a course in the presentation of literature. Students apply basic physical and vocal performance techniques to prose, poetry, and drama. The course includes the study of literary craft, a vital part of oral presentation. COMM 30 is also listed as TA 30; credit will be given either area, not both. C-ID: COMM 170. *NR*

## **COMM 35 VOICE AND DICTION**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

In this course students study the principles and practices of vocal and articulatory development and control. The course provides drills in phonation and drills for clarity, ease in articulation, resonance, and vocal variety. This course is also listed as TA 35; credit will be given in either area, not both. *NR*

## **COMM 100 GROUP DYNAMICS AND LEADERSHIP**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

This course studies the principles of group discussion in learning and problem-solving situations, including small groups, committees, and meetings. The course examines leadership functions, styles, and approaches, as well as ethical considerations and responsibilities. C-ID: COMM 140. *NR*

## **COMM 106A FORENSIC ACTIVITY A**

### **1 Unit - 1 hour lecture, 1 hour lab**

*Transfers: CSU*

In COMM 106A students prepare and present 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. Participation in at least one forensic event is required for credit. Students spend two hours in class and at least two hours outside of class per week to earn one unit of credit. This course is offered on an open-entry/open-exit basis. A combination of COMM 106A, COMM 106B, and COMM 106C may be taken a maximum of four times. C-ID: COMM 160. *R-E-3*



## **COMM 106B FORENSIC ACTIVITY B**

### **2.5 Units - 2 hours lecture, 2 hours lab**

*Transfers: CSU*

In COMM 106B students prepare and present 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. Participation in at least two forensic events is required for credit. Students spend four hours in class and at least four hours outside of class per week to earn two-and-a-half units of credit. This course is offered on an open-entry/open-exit basis. A combination of COMM 106A, COMM 106B, and COMM 106C may be taken a maximum of four times. C-ID: COMM 160. *R-E-3*

## **COMM 106C FORENSIC ACTIVITY C**

### **4 Units - 3 hours lecture, 3 hours lab**

*Transfers: CSU*

In COMM 106C students prepare and present 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. Participation in at least three forensic events is required for credit. Students spend six hours in class and at least six hours outside of class per week to earn four units of credit. This course is offered on an open-entry/open-exit basis. A combination of COMM 106A, 106B, and 106C may be taken a maximum of four times. C-ID: COMM 160. *R-E-3*

## **COMM 167 COOPERATIVE WORK EXPERIENCE: PROJECTS IN COMMUNICATION**

### **2 Units - 2 hours lab**

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator.*

Recommended Preparation: COMM 1

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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. *NR*

# **Computer Information Management**

## **CIM 103 INTRODUCTION TO WINDOWS**

### **1.5 Units - 1.5 hours lecture**

*Transfers: CSU*

This course provides an overview of the operating system used with personal computers, including the fundamentals of the Windows user interface. Topics include working with Windows programs; managing files and folders; securing the computer; exchanging mail, news and appointments; creating and managing movies, CDs, DVDs, and other digital media; organizing photos/pictures; sharing files; computing wirelessly; maintaining and securing the system; enhancing system performance; backing up and restoring files; and installing and managing hardware and devices. *NR*

## **CIM 107 INTRODUCTION TO PERSONAL COMPUTER APPLICATIONS**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

This course introduces Microsoft Office Professional applications. Topics covered include word processing (Word), spreadsheet

(Excel), database (Access), presentation (PowerPoint), email management (Outlook), and World Wide Web navigation software. *NR*

## **CIM 110 INFORMATION AND COMMUNICATION TECHNOLOGY ESSENTIALS**

### **4 Units - 4 hours lecture**

*Transfers: CSU*

This beginning course provides an introduction to the computer hardware and software skills needed to help meet the growing demand for Information and Communication Technology (ICT) professionals. The fundamentals of computer hardware and software as well as advanced concepts such as security, networking, and the responsibilities of an ICT professional will be introduced. This course is designed to prepare students for the CompTIA A+ certification exams. CIM 110 was formerly offered as CIM 106 and 108. *NR*

## **CIM 112.1 SPREADSHEETS I**

### **1.5 Units - 1.5 hours lecture**

*Transfers: CSU*

This course is designed for individuals seeking to develop introductory skills in using spreadsheet software. Students will use a spreadsheet program to organize and manage financial data. Topics include formulas and functions, charts and graphs, and developing well-formatted worksheets. CIM 112.1 is also listed as ACCT 112.1; credit will be given in either area, not both. *NR*

## **CIM 112.2 SPREADSHEETS II**

### **1.5 Units - 1.5 hours lecture**

*Transfers: CSU*

*Recommended Preparation: CIM 112.1*

This course provides instruction and training in the use of spreadsheet software at the intermediate level. Students will produce sophisticated spreadsheet documents for a variety of business applications. Topics include working with lists and pivot tables, consolidating multiple worksheets and workbooks, integrating the spreadsheet software with other software programs and the web, and creating macros. CIM 112.2 is also listed as ACCT 112.2; credit will be given in either area, not both. *NR*

## **CIM 115 DATABASES**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

This course covers a relational database management system for building and maintaining business databases. Topics include the design of relational databases; tables, queries, forms and reports; enter/ edit/search data; field properties; import/ export; joins; Structured Query Language (SQL); macros; and user interfaces. *NR*

## **CIM 117 SOCIAL MEDIA MARKETING**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

This course introduces social media tools used for marketing in business. Topics include uses, ethics, and guidelines for social networking, and online marketing channels. Students create a social media marketing campaign through the use of Web applications such as Facebook, LinkedIn, and Twitter. CIM 117 is also listed as ENTR 117; credit will be given in either area, not both. *NR*

## **CIM 140 INTRODUCTION TO SYSTEMS ANALYSIS AND DESIGN**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

Prerequisite: CIM 107

The course presents a systematic methodology for analyzing a business problem or opportunity, determining what role, if any, computer-based technologies can play in addressing the business need, articulating business requirements for the technology solution, specifying alternative approaches to acquiring the technology capabilities needed to address the business requirements, and specifying the requirements for the information systems solution in particular, in-house development, development from third-party providers, or purchased commercial off-the-shelf packages. *NR*

## **CIM 141 CREATING A WEB PAGE USING HTML**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

This course covers HyperText Markup Language (HTML) for building a business website for viewing on desktop and mobile devices using a browser. Topics include Cascading Style Sheets (CSS), lists, links, graphics, tables, multimedia, web forms, and Responsive Web Design for mobile devices. *NR*

## **CIM 143 WEB DEVELOPMENT - DREAMWEAVER**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

This course covers Dreamweaver for building business web pages for viewing on desktop and mobile devices using a browser. Topics include linking; typography; Cascading Style Sheets (CSS); lists; tables; graphics; movie/video files; and jQuery; and responsive web design for mobile devices. This course helps prepare students to take the Adobe Certified Experts (ACE) Dreamweaver Exam. *NR*

## **CIM 144 WEB DEVELOPMENT - WORDPRESS**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

This course covers WordPress for building a business website for viewing on desktop and mobile devices. Topics include WordPress installation; blogs; business pages using menus, themes, plugins, widgets, photos, and videos; maintenance; security; and publish a responsive web design business site. *NR*

## **CIM 145 MOBILE WEB APPLICATIONS USING HTML AND JAVASCRIPT**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

This course examines business web applications (apps) for smartphones and mobile devices with intermediate HTML (Hypertext Markup Language) and JavaScript. Topics include jQuery, media queries, client-side data storage, and intermediate CSS (Cascading Style Sheets) for mobile web applications. *NR*

## **CIM 148 WEB DEVELOPMENT - EDGE ANIMATE**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

*Recommended Preparation: CIM 141*

This course introduces Edge Animate, an Adobe web development tool, that uses web standards for creating and animating web projects for desktop and mobile devices. Topics include the Edge Animate interface, creating and importing artwork, creating motion, scripting, creating responsive web design layouts, and publishing Edge Animate projects. *NR*

## **CIM 160 COMPUTER NETWORK FUNDAMENTALS (NETWORK+)**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

This course examines the concepts of networking protocols, hardware, and security. It covers Local Area Networks (LANs),

Wide Area Networks (WANs), networking hardware, network security, and the Open Systems Interconnection (OSI) and Transmission Control Protocol (TCP) suites of layered network protocols. This course is designed to prepare students for the industry-standard CompTIA Network+ Certification Exam. *NR*

## **CIM 161 SYSTEMS AND NETWORK ADMINISTRATOR (LINUX+)**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

This course is designed to prepare students for the CompTIA Linux+ Certification Exam and acquire the skills to become a Linux system administrator. The course will provide the skills and knowledge to build, troubleshoot, and maintain server hardware and the Linux operating system (OS). It covers system architecture, installation, commands, file systems, devices, user interfaces, administrative tasks, system services, networking, security, disaster recovery, server roles/specializations, and boot loaders. *NR*

## **CIM 168 COOPERATIVE WORK EXPERIENCE: COMPUTER INFORMATION MANAGEMENT**

### **1 Unit - 1 hour lab**

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 a certificate. *NR*

## **CIM 168 COOPERATIVE WORK EXPERIENCE: COMPUTER INFORMATION MANAGEMENT**

### **2 Units - 2 hours lab**

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 a certificate. *NR*

## **CIM 168 COOPERATIVE WORK EXPERIENCE: COMPUTER INFORMATION MANAGEMENT**

### **3 Units - 3 hours lab**

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 a certificate. *NR*

## **CIM 168 COOPERATIVE WORK EXPERIENCE: COMPUTER INFORMATION MANAGEMENT**

**4 Units - 4 hours lab**

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 a certificate. *NR*

**CIM 170 INTRODUCTION TO INFORMATION SYSTEMS SECURITY (SECURITY+)****3 Units - 3 hours lecture**

*Transfers: CSU*

Prerequisite: CIM 160 or CIM 181

This course provides a comprehensive overview of network security. Topics include information security, malware and social engineering attacks, application and network attacks, vulnerability assessment and risk mitigation, host and data security, network security, wireless security, access control, authentication, account management, cryptography, and business continuity and disaster recovery plans. This course helps prepare students the CompTIA Security+ Certification Exam. *NR*

**CIM 172 DIGITAL FORENSICS FUNDAMENTALS****3 Units - 3 hours lecture**

*Transfers: CSU*

Prerequisite: CIM 170

*Recommended Preparation: AJ 103, CIM 106, CIM 108*

This course is an introduction to the methods used to properly conduct a digital forensics investigation and aligns with objectives of the International Association of Computer Investigative Specialists (IACIS) Certification. Topics covered include computer forensics as a profession and the investigator's lab; computer investigation and crime scene processes; understanding operating systems boot processes and disk structures; data (email, graphics) acquisition and analysis; report writing for high-tech investigations; and a review of familiar computer forensics tools. *NR*

**CIM 181 CCNA - INTRODUCTION TO NETWORKS****3 Units - 3 hours lecture**

*Transfers: CSU*

This is the first of four courses which prepares students for the CCNA (Cisco Certified Network Associate) Certification Exam. Topics in this course include the OSI (Open Systems Interconnection) Reference Model; layered communications; the TCP/IP (Transmission Control Protocol/Internet Protocol) network protocol; network design and documentation; and structured cabling. CIM 181 was previously offered as CIM 263.1. *NR*

**CIM 182 CCNA 2 - ROUTING AND SWITCHING ESSENTIALS****3 Units - 3 hours lecture**

*Transfers: CSU*

Prerequisite: CIM 181

This is the second of four courses which prepares students for the CCNA (Cisco Certified Network Associate) Certification Exam. Topics in this course include Wide Area Networks (WANs); router and switch setup and configuration; IOS (Internetworking Operating Systems) images; and routing protocols. CIM 182 was previously offered as CIM 263.2. *NR*

**CIM 201A INTRODUCTION TO COMPUTERS, KEYBOARDING AND WORD I****1 Unit - 1 hour lecture**

This course is designed for individuals seeking basic computer, keyboarding and document processing skills for personal and

business applications. The course introduces the Windows environment, word processing software, touch control of the keyboard, email, and the formatting of simple academic reports. Students concentrate on improving keyboarding speed and accuracy. No prior computer experience is required. *NR*

## **CIM 201B INTRODUCTION TO COMPUTERS, KEYBOARDING AND WORD II**

### **1 Unit - 1 hour lecture**

*Recommended Preparation: CIM 201A*

This course is designed for individuals seeking to further develop computer, keyboarding and document processing skills for personal and business applications. The course introduces personal and business correspondence and multiple-page reports and the word processing software that supports the creation of these documents. Students concentrate on improving keyboarding speed and accuracy. *NR*

## **CIM 201C INTRODUCTION TO COMPUTERS, KEYBOARDING, AND WORD PROCESSING III**

### **1 Unit - 1 hour lecture**

*Recommended Preparation: CIM 201B*

This course is designed for individuals seeking to develop skills in formatting various kinds of business documents, correspondence, reports, tables, and desktop publishing projects from unarranged and rough-draft sources. The course covers composition and language skills for business writing and strategies for developing keyboarding speed and accuracy on production assignments. *NR*

## **CIM 209 INTRODUCTION TO OUTLOOK**

### **0.5 Units - 0.5 hours lecture**

This course introduces the skills needed to manage and work with Outlook. Topics include managing email messages, contacts and tasks; working with calendars and appointments; customizing Outlook; using instant messaging; and collaborating with SharePoint and SkyDrive. The course is designed to prepare students to pursue the Microsoft Office Specialist (MOS) Certification for Outlook. *NR*

## **CIM 210.1 WORD PROCESSING I**

### **1 Unit - 1 hour lecture**

*Recommended Preparation: Ability to keyboard by touch*

This course is designed for those seeking to master introductory skills in using word processing software. Students will use a word processing program to create, edit, design, format, and manipulate documents of varying sophistication, including personal and business letters, reports, newsletters, and tables - for school, work, or home. *NR*

## **CIM 210.2 WORD PROCESSING II**

### **1.5 Units - 1.5 hours lecture**

*Recommended Preparation: CIM 210.1*

This course is designed for those seeking to master advanced skills in using word processing software in preparation for Microsoft certification. Topics covered include merging, sorting and selecting data; planning, creating, and running macros; applying styles and themes; navigating with bookmarks; creating and manipulating outlines; creating web pages; integrating objects from other software programs; creating and using on-screen forms; working with master documents and subdocuments; and sharing documents. *NR*

## **CIM 212.3 SPREADSHEETS III - CERTIFICATION**

**3 Units - 3 hours lecture**

*Recommended Preparation: ACCT 112.2/ CIM 112.2*

This course provides students with advanced study and training required to qualify for Microsoft Office Specialist (MOS) certification in spreadsheet software. Students will review and learn to integrate all of the features of the spreadsheet program and incorporate data from other software programs and the World Wide Web. The course is designed to prepare students for the MOS Certification exam for spreadsheets. CIM 212.3 is also listed as ACCT 212.3; credit will be given in either area, not both. *NR*

**CIM 249 CASCADING STYLE SHEETS (CSS) WEBSITE****3 Units - 3 hours lecture**

*Recommended Preparation: CIM 243.2*

This course presents an introduction to Cascading Style Sheets (CSS) and their application to presentation in the creation of websites. Topics include CSS syntax, selectors, positioning, and internal and external style sheets. *NR*

**CIM 251 DYNAMIC WEB DATABASE MANAGEMENT****3 Units - 3 hours lecture**

*Recommended Preparation: CIM 141 and CIM 143*

This course provides an overview of how to create and administer interactive, database-driven web sites using PHP (PHP Hypertext Preprocessor) and MySQL databases. Students create interactive, dynamic database-driven web sites with logins, database updates, validation, and security. *NR*

**CIM 283 CCNA 3 - SCALING NETWORKS****3 Units - 3 hours lecture**

*Recommended Preparation: CIM 182*

This is the third of four courses which prepares students for the CCNA (Cisco Certified Network Associate) Certification Exam. Topics in this course include Local Area Network (LAN) scaling, redundancy and aggregation, wireless networking, advanced configuration of routing protocols, and managing Cisco operating system files. CIM 283 was previously offered as CIM 263.3. *NR*

**CIM 284 CCNA 4 - CONNECTING NETWORKS****3 Units - 3 hours lecture**

*Recommended Preparation: CIM 283*

This is the final of four courses which prepares students to take the CCNA (Cisco Certified Network Associate) Certification Exam. Topics include network design, connecting Wide Area Networks (WANs), Frame Relay, Network Address Translation, site-to-site connectivity security, and monitoring and troubleshooting a network. CIM 284 was previously offered as CIM 263.4. *NR*

## **Computer Information: Special Services**

**CISS 320 ADAPTIVE COMPUTER ASSESSMENT****1.5 Units - 1.5 hours lecture**

This course is designed to provide physically limited students an overview of adaptive computer devices and to assess each student's individual needs. Appropriate modifications will be made to accommodate disabled students in computer courses. *NR*

## **Computer Science**

## **CS 1 INTRODUCTION TO COMPUTER SYSTEMS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course provides an overview of computer information systems and introduces hardware, software, networking, and Internet terminology. The course introduces Windows and Microsoft Office software, focusing particularly on spreadsheet and database applications. It also introduces program development and programming languages. Students write and execute elementary programs in Visual Basic. Credit may be earned in CS 1 or CS 1H, but not both. C-ID: BUS 140. *NR*

## **CS 1H INTRODUCTION TO COMPUTER SYSTEMS HONORS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course provides an overview of computer information systems and introduces hardware, software, networking, and Internet terminology. The course introduces Windows and Microsoft Office software, focusing particularly on spreadsheet and database applications. It also introduces program development and programming languages. This honors course features an emphasis on research and writing and presentation of a programming project. Credit may be earned in either CS 1 or CS 1H, but not both. C-ID: IT IS 120. *NR*

## **CS 6A COMPUTER DISCRETE MATHEMATICS I**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Placement by current assessment process or successful completion of MATH 2 with a 'C' or better*

This course is designed primarily for computer science majors. Areas of study include logic, proofs, basic structures, algorithms, integers, matrices, induction, recursion, counting principles, discrete probability, inclusion-exclusion, and graphs and trees. This course is also listed as MATH 30; credit will be given in either area, not both. C-ID: COMP 152. *NR*

## **CS 6B COMPUTER DISCRETE MATHEMATICS II**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Placement by current assessment process or successful completion of MATH 2 with a 'C' or better*

This course is designed primarily for computer science majors. Major topics include propositional logic, proofs, relations, graphs, trees, Boolean algebra, and modeling computation. This course is also listed as MATH 31 ; credit will be given in either area, not both. *NR*

## **CS 10 INTRODUCTION TO PROGRAMMING USING PYTHON**

### **3 Units - 3 hours lecture, 1 hour lab**

*Transfers: CSU, UC*

This course provides an introduction to computers and programming using Python. The course focuses on planning, creating and debugging programs using the grammar and syntax of the Python language. Topics include types and variables, input and output statements, control statements, functions and parameter passing, looping structures, text files, classes, lists, algorithms, and graphics. *NR*

## **CS 30 VISUAL BASIC PROGRAMMING**

### **3 Units - 3 hours lecture, 1 hour lab**

*Transfers: CSU, UC*

This course focuses on the development of programming applications using Visual Basic. The course covers Visual Basic structure, syntax and operating procedures, as well as design and programming techniques for event-driven and object-oriented programs in Visual Basic. *NR*



## **CS 36 C PROGRAMMING**

**3 Units - 3 hours lecture, 1 hour lab**

*Transfers: CSU, UC*

This course introduces the C programming language, focusing on how to create, execute, and debug C programs. Topics include input and output statements; control statements; random numbers; functions and parameter passing; recursion; loops; arrays; structures; text, binary, and header files; recursion; pointers; and linked lists. *NR*

## **CS 37 C++ PROGRAMMING**

**3 Units - 3 hours lecture, 1 hour lab**

*Transfers: CSU, UC*

*Prerequisite: CS 36*

This course covers the C++ programming language, focusing on how to create, execute, and debug C++ programs. Topics include input and output statements; file handling; functions and parameter passing including function pointers and function overloading; templates; object-oriented programming principles using classes, constructors, and destructors; friends; pointers including the "this" pointer; operator overloading; inheritance; polymorphism; and exception handling. The course also introduces the Standard Template Library (STL). *NR*

## **CS 38 JAVA PROGRAMMING**

**3 Units - 3 hours lecture, 1 hour lab**

*Transfers: CSU, UC*

*Recommended Preparation: Previous programming experience. Students should be familiar with basic programming principles.*

This course focuses on application development using both stand-alone Java programs and Java applets. The course covers Java syntax and operating procedures, as well as design and programming techniques for object-oriented programs. Additional topics include arrays, text files, graphical user interface (GUI) components, exception handling, and multithreading. C-ID: COMP 122. *NR*

## **CS 39 C# PROGRAMMING USING MICROSOFT.NET**

**3 Units - 3 hours lecture, 1 hour lab**

*Transfers: CSU, UC*

*Recommended Preparation: CS 37 and CS 38*

This course covers the C# programming language. Topics include C# syntax; input and output statements; operators; decision statements; arrays; loops; methods; Windows Forms; classes; inheritance and polymorphism; exception handling; structs; operator overloading; text and binary files; generics; and collections and data structures including stacks, queues, and hash tables. *NR*

## **CS 40A COMPUTER ORGANIZATION AND ASSEMBLY LANGUAGE I**

**3 Units - 3 hours lecture, 1 hour lab**

*Transfers: CSU, UC*

*Prerequisite: CS 36*

This course introduces computer organization focusing especially on assembly language programming. Topics include finite-precision whole number arithmetic and non-integer numbers, including number conversions. The course also discusses programming in pseudo-code and its corresponding assembly language. C-ID: COMP 142. *NR*

## **CS 40B COMPUTER ORGANIZATION AND ASSEMBLY LANGUAGE II**

**3 Units - 3 hours lecture, 1 hour lab**

*Transfers: CSU, UC*

*Prerequisite: CS 40A*

This course is a continuation of Computer Science 40A. Students will further study computer organization and advanced assembly language programming. The course will also examine arrays, strings and input/output. C-ID: COMP 142. *NR*

## **CS 41 DATA STRUCTURES**

**3 Units - 3 hours lecture, 1 hour lab**

*Transfers: CSU, UC*

*Prerequisite: CS 37 or CS 38*

This course examines the basic concepts of data structures and related algorithms. Students use arrays, structures, stacks, queues, linked lists, trees, graphs, and tables to design algorithms and then write complete programs to implement these algorithms. Recursion, searching, sorting, timing and space analysis for algorithms, and memory management are also discussed. C-ID: COMP 132. *NR*

## **CS 50 HTML/XHTML PROGRAMMING**

**3 Units - 3 hours lecture, 1 hour lab**

*Transfers: CSU, UC*

This course covers the fundamentals of designing basic web pages and web sites for the internet utilizing HTML (Hypertext Markup Language), XHTML (Extensible Hypertext Markup Language), XML (Extensible Markup Language) and JavaScript. Topics include creating, editing, displaying and debugging web pages and web sites while controlling the structure, function and appearance of web pages and web sites utilizing markup and JavaScript language features and syntax. Other topics include uploading and downloading web site files and resources to and from a website remote hosting server and local computer utilizing FTP methods and procedures. *NR*

## **CS 131 DATABASE MANAGEMENT PROGRAMMING**

**3 Units - 3 hours lecture, 1 hour lab**

*Transfers: CSU*

This course introduces Database Concepts and programming. Topics include the principles of relational database design, modeling, and Standard Query Language (SQL) programming; normalization; implementation; database management; client/server systems; data warehousing; and the use of databases in the Internet. *NR*

# **Counseling**

## **COUN 1 ACADEMIC PLANNING**

**1.5 Units - 1.5 hours lecture**

*Transfers: CSU, UC*

This course is designed to introduce students to a successful college and transfer experience. The course examines the opportunities and requirements for vocational certificates, associate degrees, and baccalaureate and higher degrees. A major focus is helping students identify and overcome obstacles to academic success. The course introduces college survival skills and issues, including college expectations, student motivations, study skills, time management, college resources, and academic policies. Students develop an academic plan based on their individual educational goals and discuss strategies for choosing a major. Credit may be earned in either COUN 1 or COUN 1H, but not both.

*To view more information on the counseling program, visit Counseling.*

*NR*

## **COUN 1H ACADEMIC PLANNING HONORS**

### **1.5 Units - 1.5 hours lecture**

*Transfers: CSU, UC*

The course examines the opportunities and requirements for undergraduate and graduate degrees. The course introduces college advancement, research and community opportunities, including college expectations, student motivations, educational goal development, and time management. This honors course will be enriched through limited class size, seminar format, extensive reading on transfer related research and graduate school studies, a student educational portfolio focusing on graduate degrees/schools related to intended career choices and research/evaluation of graduate level degree options. Credit may be earned in either COUN 1 or COUN 1H, but not both.

*To view more information on the counseling program, visit Counseling. NR*

## **COUN 2 UC STUDENT EDUCATION PLAN**

### **0.5 Unit - 0.5 hour lecture**

*Transfers: CSU, UC*

This course covers important information for students who plan to transfer to one of the nine University of California campuses. Topics include admission requirements, general education options, transfer admission guarantee programs, the application process, and helpful online resources. Each student will develop a comprehensive student education plan that includes needed courses for each semester.

*To view more information on the counseling program, visit Counseling. NR*

## **COUN 4 STRESS MANAGEMENT**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC credit proviso (see UC Course List)*

This course introduces the basic principles of holistic stress management. The course explores the mind-body relationship (the psychophysiology) of stress; stressors typically experienced during an individual's college, family and working life; coping skills; and interventions. Students learn cognitive strategies and relaxation techniques that may be applied to help manage daily life stressors in a healthful and productive manner.

*To view more information on the counseling program, visit Counseling. NR*

## **COUN 6 ACADEMIC, CAREER AND LIFE SUCCESS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

A comprehensive course that integrates personal, professional, career and academic growth through the development and application of effective communication skills, positive self-image and self-esteem, self-advocacy and strategies for problem solving and decision making. Students examine individual morals, values, and motivation from psychological, social and physiological perspectives. Course covers goal setting, financial literacy, basic communication skills, diversity and balancing the challenges faced in today's society. Emphasis is on holistic student development. Credit may be earned for either COUN 6 or 6H, but not both.

*To view more information on the counseling program, visit Counseling. NR*

## **COUN 6H ACADEMIC, CAREER AND LIFE SUCCESS HONORS**

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

A comprehensive course that integrates personal, professional, career and academic growth through the development and application of effective communication skills, positive self-image and self-esteem, self-advocacy and strategies for problem solving and decision making. Students examine individual morals, values, and motivation from psychological, social and physiological perspectives. Course covers goal setting, financial literacy, basic communication skills, diversity and balancing the challenges faced in today's society. Emphasis is on holistic student development. Honors course is enriched through limited class size, seminar format, and extensive reading. Credit may be earned in either COUN 6 or COUN 6H but not both.

*To view more information on the counseling program, visit Counseling. NR*

**COUN 10 INTRODUCTION TO COLLEGE STUDY SKILLS****3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This comprehensive course is designed to assist students in developing effective academic study skills and critical thinking strategies necessary to reach future educational goals. Topics surveyed include various educational learning theories; career information; successful interpersonal communication techniques; sensitivity to diverse populations, examination of individual morals and values; and academic survival strategies such as principles of memory and learning, motivation and concentration, effective note-taking, textbook study methods, efficient time management and test-taking/test anxiety reduction. Emphasis is given to career and personal growth and development with the long-range goal of interpersonal, academic and professional success.

*To view more information on the counseling program, visit Counseling. NR*

**COUN 100A EDUCATION PLANNING FOR CERTIFICATES AND ASSOCIATE DEGREES****0.5 Unit - 0.5 hour lecture**

*Transfers: CSU*

This course covers important information for students who plan to pursue a certificate, AA/AS, AS-T and/or AA-T degree from Irvine Valley College. The course discusses degree and certificate options at IVC and explains requirements for graduation, such as units, general education, major and grade point average. Students will develop a comprehensive student education plan that includes courses needed for each semester.

*To view more information on the counseling program, visit Counseling. NR*

**COUN 100B CSU STUDENT EDUCATION PLAN****0.5 Unit - 0.5 hour lecture**

*Transfers: CSU*

This course covers important information for students who plan to transfer to one of the 23 California State University campuses. Topics include admissions requirements, general education options, Associate in Arts for Transfer (AA-T) and Associate in Science for Transfer (AS-T) degrees, the application process, and helpful online resources. Each student will develop a comprehensive student education plan that includes needed courses for each semester.

*To view more information on the counseling program, visit Counseling. NR*

**COUN 102 CAREER EXPLORATION AND LIFE PLANNING**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

This course provides students with the opportunity to conduct self-assessments and to apply the results to the process of making career and life decisions, including selecting an academic major. The course includes assessments of values, interests, personality characteristics, skills and learning styles. Students use a variety of resources to research and evaluate career and life options. The course presents decision-making models, goal-setting techniques and job-search strategies related to each student's short- and long-term goals.

*To view more information on the counseling program, visit Counseling. NR*

## **COUN 103 INTRODUCTION TO ASSERTION**

### **1.5 Units - 1.5 hours lecture**

*Transfers: CSU*

This course introduces students to the theoretical principles underlying assertive behavior and the practical application of these principles in their communication with others, including in the workplace. The course covers the distinctions among assertive, aggressive and non-assertive behaviors and the causes and consequences of these behavioral styles. Included will be discussions of the relationship between assertion and self-esteem, success, problem resolution, positive relationships, and health. In addition, strategies for establishing and maintaining your professional image in the workplace using work place rules and etiquette will be covered.

*To view more information on the counseling program, visit Counseling. NR*

## **COUN 120 WOMEN AND WORK**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

Do you choose your work or does it choose you? This course briefly explores the history of work. It will focus on gender issues as they influence work choices students may make. It explores workplace social elements of work such as sexual harassment and leadership. Women balancing work and family will also be explored.

*To view more information on the counseling program, visit Counseling. NR*

## **COUN 150 HELPING RELATIONSHIPS**

### **1.5 Units - 1.5 hours lecture**

*Transfers: CSU*

Students planning to enter a helping profession will acquire basic listening, communication and intervention skills that will be central to their helping professional roles. Helping occupations include ,but are not limited to working as teachers, counselors, psychologists, nurses, doctors, medical personnel, caregivers, firefighters, and law enforcement personnel. Students examine their role as a helper and applying the skills that they acquire to their own lives and relationships.

*To view more information on the counseling program, visit Counseling. NR*

## **Dance**

### **DNCE 1 INTRODUCTION TO DANCE**

**2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

This course introduces the basic techniques, styles, and backgrounds of ballet, modern, and jazz dance, as well as other dance forms, such as hip hop, tap, international (e.g., African and Middle Eastern), liturgical, and social dance. It is designed for dancers of any experience level. The course focuses on developing coordination, flexibility, strength, and postural alignment. Movement studies and improvisations encourage student individuality. DNCE 1 (or DNCE 1A and DNCE 1B) may be taken once for a maximum of 2 units. *NR*

**DNCE 1A INTRODUCTION TO DANCE A****1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU, UC*

This course, equivalent to the first half of Dance 1, focuses on the basic techniques, styles, and backgrounds of ballet and modern dance. It is designed for dancers of any experience level. The course focuses on developing coordination, flexibility, strength, and postural alignment. Movement studies and improvisations encourage student individuality. DNCE 1 (or DNCE 1A and DNCE 1B) may be taken once for a maximum of 2 units. *NR*

**DNCE 1B INTRODUCTION TO DANCE B****1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: DNCE 1A*

This course, equivalent to the second half of Dance 1, focuses on the basic techniques, styles, and backgrounds of jazz dance and other dance forms, such as hip hop, break dance, tap, liturgical and international dance (e.g., African and Middle Eastern). It is designed for dancers of any experience level. The course focuses on developing coordination, flexibility, strength, and postural alignment. Movement studies and improvisations encourage student individuality. DNCE 1 (or DNCE 1A and DNCE 1B) may be taken once for a maximum of 2 units. *NR*

**DNCE 2 INTRODUCTION TO WORLD DANCE****1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU, UC credit pending*

This course introduces multiple ethnic dance genres in the field of World Dance to determine possible further studies and career goals. It focuses on developing movement technique and recognizing the direct connection to the rhythms and music associated with each style as well as the cultural, geographical, occupational and historical influences that led to the development of the specific movements. *NR*

**DNCE 3 MIDDLE EASTERN DANCE FUNDAMENTALS****1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU, UC*

An introductory course emphasizing the basic concepts of musicality and body placement of Middle Eastern dance. *NR*

**DNCE 5 INTRO TO DANCE: DANCE TECHNIQUES AND TRAINING METHODS****1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU, UC*

This course is designed for non-dancers and dancers. It will focus on learning the movements of various dance genres as well as the dance technique exercises and training methods that were inspired by various body therapies. Conversely, students will also learn body therapies or dance science exercises that were inspired by dance or sports movements or exercises. Emphasis in how each inspired, or has been inspired by advances in the other fields historically and currently. *NR*

## **DNCE 6 BALLET I**

**2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

This course introduces the basic ballet positions, movements, and combinations, as well French ballet terms and their meanings. The course also discusses the history and origins of ballet and its various styles. Students are required to attend at least one dance concert, on or off campus. No prior dance experience is required. A combination of DNCE 6 and DNCE 7 may be taken a maximum of four times. *R-A-3*

## **DNCE 7 BALLET II**

**2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: DNCE 6*

This course further explores the technical and expressive elements of ballet, as well as historically significant ballet schools and styles. It is designed to advance the performance level of students who have mastered the basic skills and vocabulary of ballet. Students practice and perform advanced barre exercises, demi-pointe work, and increasingly complex connecting movements. Attendance at a minimum of one dance concert, on or off campus, is required. A combination of DNCE 6 and DNCE 7 may be taken a maximum of four times. *R-A-3*

## **DNCE 12 MODERN DANCE I**

**2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

This course introduces the fundamentals of modern dance and its history. It is designed for students with no dance experience as well as returning dance students. Students participate in movement studies and improvisations that deal with shape, space, time and energy - four main dance principles - to encourage their creativity and individuality. Emphasis is on developing axial and locomotor skills, performing movement combinations, conditioning the body, and solving creative problems. A combination of DNCE 12 and DNCE 13 may be taken a maximum of four times. *R-A-3*

## **DNCE 13 MODERN DANCE II**

**2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: DNCE 12*

This course further explores the technical and expressive elements of modern dance, including historically significant eras, companies, dancers, and choreographers. It is designed for students who have mastered basic modern dance techniques and vocabulary. Students practice intermediate-level skills, exercises with rhythmic variations, turns, jumps with turns and beats, and increasingly complex connecting movements. A combination of DNCE 12 and DNCE 13 may be taken a maximum of four times. *R-A-3*

## **DNCE 16 JAZZ DANCE BROADWAY STYLES**

**2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: DNCE 1, DNCE 17 or equivalent dance skills*

This course introduces an overview of Broadway styles of the 20th and 21st Century. It is designed for students with basic dance experience and for intermediate dancers wishing to increase their jazz dance knowledge to include musical theatre dance, history and techniques. Class participation is intended to develop an appreciation for the Broadway musical dance. Students are required to attend a live dance concert. Students are limited to taking four jazz courses (DNCE 16, 17, 18, 19, or 20) for a maximum of 8 units. *NR*

## **DNCE 17 JAZZ DANCE I - OVERVIEW**

**2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

This survey course introduces the fundamentals of jazz dance, including its history and styles. It is designed for students with no dance experience and for experienced dancers wishing to perfect basic jazz dance skills. It also provides training for a professional career in Jazz dance. Jazz dance techniques are presented and practiced in class, with an emphasis on combinations using a variety of rhythms and styles. Class participation is intended to develop an appreciation for the physical demands of jazz dancing. Students are required to attend a live dance concert. Students are limited to taking four jazz courses (DNCE 16, 17, 18, 19, or 20) for a maximum of 8 units. *NR*

**DNCE 18 JAZZ DANCE II****2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: DNCE 17*

This course further explores the technical and expressive elements of jazz dance, including the historical origins, music, rhythms, and styles of this dance form. It is designed for students who have mastered basic jazz dance techniques and vocabulary. It also provides training for a professional career in jazz dance. Students practice intermediate-level jazz skills, turns, jumps, and center and locomotor combinations. They also develop original routines set to jazz music. Students are limited to taking four jazz courses (DNCE 16, 17, 18, 19 or 20) for a maximum of 8 units. *NR*

**DNCE 19 JAZZ DANCE: COMMERCIAL AND CONTEMPORARY****2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

Preparation and development of techniques necessary for becoming a commercial dancer, including the blending of commercial jazz dance with contemporary dance. Focus is on proper alignment that draws from ballet and contemporary dance, turns and jump combinations, as well as development of retention and manipulation of jazz dance phrases, and adapting to camera restrictions. It also provides training for a professional career in Jazz dance. Students are limited to taking four jazz courses (DNCE 16, 17, 18, 19, or 20) for a maximum of 8 units. *NR*

**DNCE 20 JAZZ: LATIN STYLES****2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

This course is designed to introduce elements of Latin dance and jazz dance. It is formulated for dancers wishing to increase their dance skills with an emphasis on developing rhythms and movements as they pertain to jazz dance technique. The merging of various styles is a new focus in contemporary forms of jazz dance. Students are limited to taking four jazz courses (DNCE 16, 17, 18, 19, or 20) for a maximum of 8 units. *NR*

**DNCE 22 TAP DANCE I****1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU, UC*

This course introduces tap dance technique at the beginning level. Instruction focuses primarily on the rhythm tap style however, other tap styles are explored. Students practice fundamental tap dance skills; rhythms, including swing and Latin; syncopation; time steps; short combinations; and stylings. The course includes an introduction to the history and performance of tap dance. Students are limited to taking four tap courses (DNCE 22, DNCE 23, DNCE 24, DNCE 25, or DNCE 26) for a maximum of 4 units. *NR*

**DNCE 23 TAP DANCE II****1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU, UC*



*Recommended Preparation: DNCE 22*

This intermediate-level course is designed for students who have mastered basic tap dance skills. Students practice new and more complicated rhythms, movement coordinations, and skills. Focus is on developing the speed at which students master tap routines. The course presents a variety of musical forms related to tap dance. Students are limited to taking four tap courses (DNCE 22, DNCE 23, DNCE 24, DNCE 25, or DNCE 26) for a maximum of 4 units. *NR*

## **DNCE 24 TAP: TRADITIONAL BROADWAY BASICS**

**1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: DNCE 22*

This beginning level course is designed for students who want to acquire basic tap dance skills. Students practice basic tap rhythms, movement coordinations, and skills. Focus is on acquiring tap dance vocabulary specific to the Broadway genre. The course presents a variety of musical forms related to Broadway tap dance styles. Students are limited to taking four tap courses (DNCE 22, DNCE 23, DNCE 24, DNCE 25, or DNCE 26) for a maximum of 4 units. *NR*

## **DNCE 25 TAP: BEGINNING RHYTHM TECHNIQUE AND INTERMEDIATE BROADWAY STEPS**

**1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: Some basic tap knowledge is helpful*

This course presents a variety of musical forms related to tap dance designed to develop tap rhythms, movement coordination, and tonal variations. Broadway steps will be used to further develop the student's stylistic range as well as his/her understanding of Tap dance's place in the history of Musical Theatre. Students are limited to taking four tap courses (DNCE 22, DNCE 23, DNCE 24, DNCE 25, or DNCE 26) for a maximum of 4 units. *NR*

## **DNCE 26 INTERMEDIATE TAP TECHNIQUES AND IMPROVISATION**

**1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: DNCE 22*

This course is designed for students who want to further their mastery of Tap dance. Focus will be on increasing the speed and accuracy of execution of master tap routines and developing improvisation techniques. Students are limited to taking four tap courses (DNCE 22, DNCE 23, DNCE 24, DNCE 25, or DNCE 26) for a maximum of 4 units. *NR*

## **DNCE 27 HIP HOP/COMMERCIAL DANCE**

**1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU, UC*

This beginning-level course presents a blend of hip hop and commercial dance styles. The course introduces traditional hip hop; breaking, including b-boying and b-girling; popping; video-style hip hop; and freestyling. Students practice and perform combinations and dances to contemporary hip hop, rhythm and blues, and pop music. Focus is on developing individual skill, musicality, and artistic expression, and on using accents and musical phrasing to demonstrate originality, unity, and clarity of intent in choreography. No previous experience is required. *NR*

## **DNCE 30 AFRICAN DANCE-OVERVIEW**

**1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU, UC*

This is an overview course that introduces dances from African cultures. Students will examine the role of dance in the African society through the practice of dance traditions and rituals. Discussions on African history, empires, and instruments will help to

shape the the study of African dance performance. African dance movements , steps and styles will be taught with emphasis on body alignment, coordination, rhythm and body positions. All classes are aerobic in nature. Field trips may be required. *NR*

## **DNCE 33 MIDDLE EASTERN DANCE I**

**1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU, UC*

An introductory course emphasizing the social, stage and artistic dances from the region known as the Near and Middle East. *NR*

## **DNCE 34 MIDDLE EASTERN DANCE II**

**1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: DNCE 33*

This intermediate/advanced-level course further explores social, stage and regional dances from the Near and Middle East. The course focuses primarily on classical dance forms but also presents folkloric and popular dance styles. Students concentrate on refining movements and gestures; developing solo and group performing skills; and using finger cymbals, veils, and props while dancing. The course expands upon Middle Eastern music, rhythms, and culture as they relate to dance. *NR*

## **DNCE 35 FOLK DANCES OF EGYPT AND LEBANON**

**1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: DNCE 3 and DNCE 33*

An intermediate/advanced level course on folk dance from Egypt and Lebanon. Dances will be learned focusing on technique, musical analysis, cultural characteristics, costuming, use of props, historical overview, and geographical relevance. Students will learn, practice and perform combinations and choreography in a classroom setting. *NR*

## **DNCE 36 BALLROOM STYLES OF THE 19TH AND 20TH CENTURY**

**1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU, UC*

This course gives students the opportunity to learn various social dance forms. It is designed for students with no dance experience as well as dance students who want to be introduced to dance forms new to them. Examples of dance forms that may be included are swing, salsa, mambo, cha cha, tango, waltz, country and fox trot. The course will focus on exploring the differences and similarities among styles and techniques while also developing coordination skills. *NR*

## **DNCE 37 INTERMEDIATE BALLROOM**

**1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: DNCE 36 or instructor's approval*

This course gives students the opportunity to learn intermediate ballroom dance skills. It is designed for students with basic ballroom dance experience. Examples of dance forms that may be included are swing, salsa, cha cha, rumba, tango, waltz, and fox trot. This course also explores the differences and similarities within the styles and techniques of intermediate ballroom dance while addressing development of coordination skills. This course will encourage individual choreography which will enhance the students knowledge of each dance form as well as develop creativity. DNCE 37 may be taken once for a maximum of 2 units. *NR*

## **DNCE 37 INTERMEDIATE BALLROOM**

**2 Units - 1.5 hours lecture, 1.5 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: DNCE 36 or instructor's approval*

This course gives students the opportunity to learn intermediate ballroom dance skills. It is designed for students with basic ballroom dance experience. Examples of dance forms that may be included are swing, salsa, cha cha, rumba, tango, waltz, and fox trot. This course also explores the differences and similarities within the styles and techniques of intermediate ballroom dance while addressing development of coordination skills. This course will encourage individual choreography which will enhance the students knowledge of each dance form as well as develop creativity. DNCE 37 may be taken once for a maximum of 2 units. *NR*

## **DNCE 38 BALLROOM: LATIN DANCES**

**1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: DNCE 36 or DNCE 37*

An introductory course in Latin dance styles designed to teach cha-cha, merengue, tango, salsa and other Latin dance styles. This course will emphasize, styling, partnering and rhythm. The beginning level is appropriate for students of all ages and level of training. Attendance at a live dance performance is required. *NR*

## **DNCE 39 BALLROOM: AMERICAN SMOOTH**

**1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: DNCE 36 or DNCE 37*

This course gives students the opportunity to learn various smooth ballroom styles dances. Examples of the smooth dance forms that may be included are Waltz, Fox Trot, American Tango. This course will focus on learning both the International and American smooth styles of dance. The students will develop coordination skills and knowledge of each dance form. Attendance at a live dance performance is required. *NR*

## **DNCE 40 HIP HOP I: HISTORY OVERVIEW**

**1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU, UC*

This beginning-level course presents a comprehensive survey of Hip-Hop dance history. The course introduces traditional hip-hop music and movement including; breaking, b-boying, popping and locking. The focus of this course is on developing individual skill, musicality and artistic expression as a dancer and choreographer. Students will study the contributions and participant from various ethnic groups that practice and perform street dance style know as Hip-hop from the 20th and 21st centuries. No previous experience is required. *NR*

## **DNCE 41 HIP HOP-FUNK STYLES**

**1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU, UC*

This is a beginning course that surveys Hip Hop Dance Funk Styles that were created during the development of the American street dance culture. The focus will be on techniques of hip hop and the elements of dance including time, shape, energy/effort and space as they relate to funk styles. It will also emphasize postural alignment, flexibility, strength, coordination, and musicality. Students will distinguish between the different styles while demonstrating and rearranging the styles into new choreography. *NR*

## **DNCE 42 HIP HOP-HIP HOP LEVEL 2**

**1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU, UC*

*Limitation: Requires the ability to do knee work and be able to develop or already have upper body strength for floor work.*

*Recommended Preparation: DNCE 27, DNCE 40 and DNCE 41*

This intermediate/advanced course emphasizes proper Hip Hop dance technique as it applies to more complex warm up exercises, dance steps and movement sequences. It is designed to focus on developing individual and group performance abilities

within small and large choreographic formations. This course will also cover the historical evolution of Hip Hop dance including its music and culture as they relate to dance. *NR*

## **DNCE 45 YOGA AND STRESS MANAGEMENT**

**2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

This course explores the relationship between yoga and its connection as one of several holistic methods to manage the mind, body, and spiritual effects of stress. It is designed to promote enhanced performance and function. It's focus is the practice of breathing, relaxation, asanas, meditation, positive thinking and other related techniques as related to taking and/or instructing others in yoga. *NR*

## **DNCE 46 INTRODUCTION TO YOGA**

**2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

This survey course investigates the principles and practices of various types of yoga to unify body, mind and spirit. Emphasis is on yoga postures (asanas), breathing, meditation, and relaxation techniques intended to reduce stress and to improve concentration, circulation, flexibility, and muscle strength. It is designed for dancers and non-dancers. *NR*

## **DNCE 47 RAJA YOGA-HATHA YOGA**

**2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

This course involves the investigation and practice of Hatha Yoga principles as it pertains to Raja Yoga, which involves the science behind mind, body, spirit. It is designed to improve proper technique within postures (asanas) and associated breathing techniques; body balance, awareness, alignment and relaxation; joint flexibility, coordination; muscle tone; and stress management. It is for dancers and non-dancers and provides training on how to adjust the difficulty based upon individual needs, a tool needed as a participant or future teacher. *NR*

## **DNCE 48 YOGA: CONTEMPORARY AND TRADITIONAL EASTERN FORMS**

**2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

This course incorporates traditional mind, body spirit exercises and paths and compares these with current styles of yoga and other holistic methods. It focuses on the evolution, differences, and similarities between various paths and styles of yoga and other eastern-based body therapies. Use of restorative breathing and relaxation exercises are also included. *NR*

## **DNCE 50 CONDITION AND CORRECT: OVERVIEW**

**3 Units - 2.5 hours lecture, 1.5 hours lab**

*Transfers: CSU, UC*

This course introduces various types of stretch, strengthen, and body alignment exercises for dancers and non-dancers. It combines techniques and skills from dance, exercise, and various body therapy programs (e.g. yoga, Pilates, Alexander Technique) to enhance flexibility, strength, postural alignment, balance, coordination, endurance, and movement memory, and promote greater technical ability in dance, sports, exercise, and other movement-based programs. The course includes introductory information on anatomy, nutrition, and the care and prevention of injuries. Students are limited to taking four conditioning courses (DNCE 50, 86, 87, 88, 90, 91, or 92) for a maximum of 12 units. *NR*

## **DNCE 51 PILATES**

**2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

This course introduces the fundamentals of non-impact exercise based on the principles of Joseph Pilates. Classes provide the dancer and non-dancer with exercises to improve abdominal and back strength, flexibility, and postural alignment, coordination, and body awareness. Proper breathing techniques are emphasized, the focus being on exercising the mind as well as the body. DNCE 51 (or DNCE 51A and DNCE 51B) may be taken once for a maximum of 2 units. *NR*

## **DNCE 51A PILATES A**

**1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU, UC*

This course is the first half of an introduction to a non-impact exercise program based on the principles of Joseph Pilates. Classes provide the dancer and non-dancer with exercises to improve abdominal and back strength, flexibility, postural alignment, coordination, and body awareness. Proper breathing techniques are emphasized, the focus being on exercising the mind as well as the body. DNCE 51 (or DNCE 51A and DNCE 51B) may be taken once for a maximum of 2 units. *NR*

## **DNCE 51B PILATES B**

**1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: DNCE 51A*

This course is the second half of an introduction to a non-impact exercise program based on the principles of Joseph Pilates. Classes provide the dancer and non-dancer with exercises to improve abdominal and back strength, flexibility, postural alignment, coordination and body awareness. Proper breathing techniques are emphasized, the focus being on exercising the mind as well as the body. DNCE 51 (or DNCE 51A and DNCE 51B) may be taken once for a maximum of 2 units. *NR*

## **DNCE 52 PILATES - MAT**

**2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

This course is a non-impact body therapy and training method based on the principles of Joseph Pilates. Classes provide the dancer and non-dancer with detailed exercises for the entire body that focus on core strengthening while also re-training postural alignment and muscular imbalances. Proper breathing techniques are emphasized to exercise the mind as well as the body. *NR*

## **DNCE 53 PILATES-REFORMER WITH MAT**

**2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: DNCE 51 or DNCE 52*

This course connects Pilates mat-work with reformer work and associated props that aid in personalized adjustments based on individual needs. It is a non-impact body therapy and training program for the entire body focusing on re-training alignment and imbalances in the body; promoting enhanced core strength, movement abilities, care and prevention of injuries; and reduction of pain. Breath use is emphasized to initiate and maintain the core for each exercise as well as being able to recognize internal changes in muscle efficiency in all areas. *NR*

## **DNCE 54 PILATES: DESIGNED FOR YOU**

**2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

This course focuses on traditional and new forms of Pilates exercises as well as the use of modification aids to aid the student in receiving the benefits intended in each exercise. Emphasis will be on technique enhancement, how to select and adjust exercises for individual needs and goals, and injury care and prevention. This course is designed for all experience levels. Students are limited to taking four Pilates courses (DNCE 51, 51A, 51B, 52, 53, or 54) for a maximum of 8 units. *NR*

## **DNCE 55 CHOREOGRAPHY I**

**3 Units - 2.5 hours lecture, 1.5 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: Two two-unit courses from DNCE 1, DNCE 6, DNCE 7, DNCE 12, DNCE 13, DNCE 17, DNCE 18, DNCE 22, DNCE 23, DNCE 30 or DNCE 36*

This beginning-level course provides a theoretical and practical foundation in dance composition. It emphasizes the development of basic skills in problem solving and in the craft and creation of dances. Students will explore and develop movement studies and full-length dances for both individuals and groups. The focus is on creating compositions with thematic and artistic clarity, incorporating shapes, times, space, energy, phrasing, abstraction, stylization, and various choreographic devices and structures. *NR*

## **DNCE 57 CHOREOGRAPHY PROJECTS**

**2 Units - 1.5 hours lecture, 1.5 hours lab**

*Transfers: CSU, UC*

*Prerequisite: DNCE 55 or equivalent*

*Limitation: Approval of a choreographic proposal submitted on the first day of class*

*Recommended Preparation: Two semesters of dance technique courses (ballet, modern, jazz, tap, Middle Eastern, African or ballroom)*

This course focuses on the preparation and execution of a dance production, emphasizing the choreographic process. It investigates the various creative, artistic and practical aspects involved in defining and developing a project. The course is designed to build each student's proficiency in the skills necessary to choreograph a dance piece from the planning stages through post-production work. *NR*

## **DNCE 58 CHOREOGRAPHY FOR COMPETITIONS**

**1 Unit - 3 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: DNCE 55 and DNCE 57. A choreography class taken at another college/university may be accepted subject to faculty evaluation.*

For students whose choreographic work has been chosen to represent IVC at a national/regional Dance competition. Competition guidelines will determine the scope of the project. Choreographers will remount and rehearse the chosen dance work and oversee its production at the competition. *R-A-3*

## **DNCE 60 AFRICAN: DANCE AND DRUMMING**

**1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU, UC credit pending*

This movement course is an introduction to the history and performance of African dance and drumming. Students will be introduced to African folk and cultural dance movements and song forms including poly rhythms, vocalizations and integration of movement to live drumming. This course examines the way that African dance functions as a social and cultural expression, focusing on universal elements such as drumming, singing, storytelling, community, and environment. Field trips may be required. *NR*

## **DNCE 61 PAN-AFRICAN DANCE/THE DIASPORA**

**1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU, UC*

This course introduces the influence of African dance and music on the world through the African Diaspora. Students will study how the doctrine of Pan-Africanism is helping to shape the identity of contemporary African through the dancing, drumming, singing and story-telling. The course explores the research and practices of performing African dances from the diaspora and it

specific historical reference to representing the African community at large. All classes are aerobic in nature. Attendance at field trips may be required. *NR*

## **DNCE 62 WEST AFRICAN DANCE: EMPIRE OF MALI**

### **1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU, UC*

This course is an introduction to the history and performance of West African dance of the Empire of Mali. Students will study, practice and perform traditional West African dances and drum rhythms from the Empire of Mali. The course explores the components of West African dance as it relates to community, movement, music, theme, season, and organization of the dance. All classes are aerobic in nature. Field trips may be required. *NR*

## **DNCE 65A DANCE REHEARSAL AND PERFORMANCE-PRODUCTION OVERVIEW A**

### **1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU, UC*

*Limitation: By audition only*

*Recommended Preparation: Prior dance technique and science courses*

This course focuses on the various aspects involved in the preparation of dance productions. It is designed to emphasize the rehearsal and performance process. A performance and/or informal showing at the end of the semester is included. Various showings will determine final performance format and additional performance opportunities. Students will also participate in technical production aspects of a dance concert. Enrollment limited to a total of four rehearsal and performance courses (DNCE 65A/B/C, 66A/B/C, and 67A/B/C) for a maximum of 7.5 units. DNCE 65A was formerly offered as DNCE 65. *NR*

## **DNCE 65B DANCE REHEARSAL AND PERFORMANCE-PRODUCTION OVERVIEW B**

### **1.5 Units - 0.5 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

*Limitation: By audition only*

*Recommended Preparation: Prior dance technique and science courses*

This course focuses on the preparation of dance productions with an emphasis on the rehearsal and performance process including aspects of technical theater, publicity, and administrative tasks necessary for an overall dance production. Students will participate in informal showing/s during the creation of two dances that focus on comparing production aspects of each and adapting each production to different locations. These showings will determine additional performance opportunities. Enrollment limited to a total of four rehearsal and performance courses (DNCE 65A/B/C, 66A/B/C, and 67A/B/C) for a maximum of 7.5 units. DNCE 65B was formerly offered as DNCE 65. *NR*

## **DNCE 65C DANCE REHEARSAL AND PERFORMANCE-PRODUCTION OVERVIEW C**

### **2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

*Limitation: By audition only*

*Recommended Preparation: Prior dance technique and science courses*

This course provides an overview of the many aspects in the preparation of a dance production. It emphasizes rehearsal and performance experiences as well as connecting the technical theater tasks and dance management needed to put on a dance concert. Students will be involved with the creation of three dances exploring the evolution of movement material, artistic expression and production elements in relationship to each choreographer's vision. A performance and/or informal showing is included. Various in-progress showings will determine performance format and additional performance opportunities. Enrollment is limited to a total of four rehearsal and performance courses (DNCE 65A/B/C, 66A/B/C, and 67A/B/C) for a maximum of 7.5 units. *NR*

## **DNCE 66A DANCE REHEARSAL AND PERFORMANCE-ANALYSIS OF CREATIVE PROCESSES A**

**1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU, UC*

*Limitation: By audition only*

Recommended Preparation: Prior dance technique courses equivalent to beginning/intermediate levels and science courses

This course is designed to prepare dance students to work with various choreographers and familiarize themselves with contrasting creative methodologies. Through the rehearsal and performance processes of working in one dance and observing other/s, students will learn to adapt to creative processes and analyze contrasting approaches. A performance and informal showings are included. Various in-progress showings will determine final performance format and additional performance opportunities. Students will also participate in technical production aspects of a dance concert. Enrollment limited to a total of four rehearsal and performance courses (DNCE 65A/B/C, 66A/B/C, and 67A/B/C) for a maximum of 7.5 units. DNCE 66A was formerly offered as DNCE 66. *NR*

## **DNCE 66B DANCE REHEARSAL AND PERFORMANCE-ANALYSIS OF CREATIVE PROCESSES B**

**1.5 Units - 0.5 hour lecture, 3 hours lab**

*Transfers: CSU, UC credit proviso (see UC Course List)*

*Limitation: By audition only*

Recommended Preparation: Prior dance technique courses equivalent to beginning/intermediate levels.

This course is designed to prepare students to work with various choreographers and familiarize them with contrasting creative methodologies. Students will learn to adapt to the creative processes of choreographers and analyze contrasting approaches by rehearsing, performing, and observing different choreographers within two dances. A performance and/or informal showing at the end of the semester is included. Various showings will determine final performance format and additional performance opportunities. Students will also participate in technical production aspects of a dance concert. Enrollment limited to a total of four rehearsal and performance courses (DNCE 65A/B/C, 66A/B/C, and 67A/B/C) for a maximum of 7.5 units. *NR*

## **DNCE 66C DANCE REHEARSAL AND PERFORMANCE-ANALYSIS OF CREATIVE PROCESSES C**

**2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC credit proviso (see UC Course List)*

*Limitation: By audition only*

Recommended Preparation: Prior dance technique courses equivalent to beginning/intermediate level and dance science courses

This course is designed to prepare the students to work with different choreographers contrasting creative methodologies. Students will learn to adapt to the creative processes and analyze contrasting approaches by rehearsing, performing and observing choreographers within three dances. A performance and/or informal showing is included. Various in-progress showings will determine final performance format and additional performance opportunities. Students will also participate in technical production aspects of a dance concert. Enrollment limited to a total of four rehearsal and performance courses (DNCE 65A/B/C, 66A/B/C, and 67A/B/C) for a maximum of 7.5 units. *NR*

## **DNCE 67A DANCE REHEARSAL AND PERFORMANCE-SOLOS TO VARIOUS GROUPS A**

**1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU, UC*

*Limitation: By audition only*

*Recommended Preparation: Prior dance technique courses equivalent to beginning/intermediate levels and dance science courses*

This course is designed to emphasize the rehearsal process and performance experience for choreographic works. It focuses on the ensemble and small group techniques and interpretive skills necessary to perform in one dance piece while observing aspects of another. A performance and/or informal showings be will included. Various in progress assessments will determine the final



performance format and any additional performance opportunities. This course also includes completion of production tasks inherent in a dance concert. Enrollment limited to a total of four rehearsal and performance courses (DNCE 65A/B/C, 66A/B/C, and 67A/B/C) for a maximum of 7.5 units. *NR*

## **DNCE 67B DANCE REHEARSAL AND PERFORMANCE-SOLOS TO VARIOUS GROUPS B**

### **1.5 Units - 0.5 hour lecture, 3 hours lab**

*Transfers: CSU, UC credit proviso (see UC Course List)*

*Limitation: By audition only*

*Recommended Preparation: Prior dance technique courses equivalent to beginning/intermediate levels and dance science courses*

This course is designed to emphasize the rehearsal process and performance experience for solos and/or duet techniques within choreographic works. It focuses on the technical and interpretive skills necessary to perform in this format within two dances. A performance and informal showings will be included. Various in-progress showings will determine the final performance format and any additional performance opportunities. This course will include completion of production tasks inherent to dance concerts. Enrollment is limited to a total of four rehearsal and performance courses (DNCE 65A/B/C, 66A/B/C and 67A/B/C) for a maximum of 7.5 units. DNCE 67B was formerly offered as DNCE 67. *NR*

## **DNCE 67C DANCE REHEARSAL AND PERFORMANCE-SOLOS TO VARIOUS GROUPS C**

### **2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC credit proviso (see UC Course List)*

*Limitation: By audition only*

*Recommended Preparation: Prior dance technique courses equivalent to beginning/intermediate levels and dance science courses*

This course is designed to emphasize the creative process of solos, duets, and other small groupings as well as ensemble work within the choreographic works. It focuses on the technical and interpretive skills necessary to perform in these formats within three dance pieces. A performance and informal showing/s are included. Various in-progress showings will determine the final performance format and any additional performance opportunities. This course also includes completion of production tasks inherent in a dance concert. Performance limited to a total of four rehearsal and performance courses (DNCE 65A/B/C, 66A/B/C, and 67A/B/C) for a maximum of 7.5 units. *NR*

## **DNCE 68 TOURING DANCE ENSEMBLE-DANCE COMPETITION**

### **2 Units - 0.5 hour lecture, 4.5 hours lab**

*Transfers: CSU, UC*

*Limitation: By audition only*

*Recommended Preparation: Prior dance technique courses at the intermediate level in various genres and dance science courses.*

This course prepares students for participation in regional and/or national dance competitions. Students study traditional and contemporary choreography through rehearsal and competitive performance. The focus is on bringing one or more dance works to a high level of performance so as to best represent Irvine Valley College at intercollegiate and dance industry concerts and competitions, including the American College Dance Association. Students experience different repertoire each semester it is offered. Field trips to the competitions are mandatory. *R-E-3*

## **DNCE 69 INTRODUCTION TO DANCE ENSEMBLE PRACTICES**

### **2 Units - 6 hours lab**

*Transfers: CSU, UC*

*Limitation: Audition is held on the first day of class to determine technical level and artistic maturity*

*Recommended Preparation: DNCE 7, DNCE 13, or DNCE 17 or technique level equivalent*

This course prepares students for participation in our Certificate/AA capstone advanced course: Performing Dance Ensemble.

Students will understudy assigned roles, learn company protocols and help in the production aspects of the performance. Field trips may be required. DNCE 69 was formerly offered as DNCE 169. *NR*

## **DNCE 70 IVC PERFORMING DANCE ENSEMBLE**

**2 Units - 0.5 hour lecture, 4.5 hours lab**

*Transfers: CSU, UC*

*Limitation: By audition only*

*Recommended Preparation: Prior dance training in ballet, modern dance, or jazz at the intermediate level or DNCE 65, 66, 67 or equivalent*

This course is designed to prepare students interested in a performing career in Dance. It will cover auditioning techniques, career investigation and goals, nutrition for dance as well as rehearsal and performance proficiency with faculty and guest choreographers. Students participate in multiple performances and production aspects of a dance concert. Field trips may be required. DNCE 70 was formerly offered as DNCE 170. *NR*

## **DNCE 71 DANCE ASSISTANT**

**2 Units - 6 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: Previous member of the IVC Performing Dance Ensemble DNCE 70 or equivalent experience as determined by the instructor*

The course will prepare students to support and assist a choreographer. Training will cover all aspects of preparation and running of rehearsals, production duties, and communications with the dancers. *NR*

## **DNCE 72 AERIAL, ACROBATIC, PARTNERING TECHNIQUES**

**1 Unit - 3 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: DNCE 7, DNCE 13, or DNCE 18 or equivalent technical ability as determined by the instructor*

Students will study advanced commercial dance skills such as basic aerial, acrobatic and partnering. Classes will be held at a location off campus. *NR*

## **DNCE 73 PERFORMING DANCE ENSEMBLE-COMMUNITY OUTREACH**

**2 Units - 0.5 hour lecture, 4.5 hours lab**

*Transfers: CSU, UC*

*Limitation: By audition only*

*Recommended Preparation: Proficiency in Ballet, Modern Dance, Jazz, and Improvisation at the intermediate level and DNCE 65A/DNCE 65B/DNCE 65C, DNCE 66A/DNCE 66B/DNCE 66C, or DNCE 67A/DNCE 67B/DNCE 67C*

The Performing Dance Ensemble is designed to prepare the intermediate/advanced dancer with a dance company experience. This course focuses on the creation and presentation of repertory for community-based educational outreach programs and/or choreography shown in multiple venues. Emphasis is also on determining how to adjust dances and programs according to various stages, spaces, and types of audiences. Another aspect is on discovering how to complete administrative tasks including establishing contacts in the local community, gathering information, and the preparation and distribution of marketing materials. *NR*

## **DNCE 75 IMPROVISATION I**

**2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

This course is designed to develop improvisational techniques as related to structural form. The focus is on individual and group work to learn tools that aid in the creation of unplanned movement and improve one's ability to edit movement choices to craft

phrases, studies, and dances "in the moment". Emphasis is on how to adapt to changing situations, come up with spontaneous solutions, and create 'on the spot' choreography which is important in the professional world. For the dancer and non-dancer. *NR*

## **DNCE 77 DANCE HISTORY: TWENTIETH CENTURY**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course studies the history of dance in the twentieth century focusing on major themes, ideas, values, people, and institutions within a global context. It traces the continued development of various dance forms with primary emphasis on ballet, modern dance, and jazz dance (including tap dance and musical theater). The course will include some reference to other art forms and the humanities. Videotapes, movies, and attendance at live performances will augment lectures. *NR*

## **DNCE 78 DANCE APPRECIATION**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Recommended Preparation: RD 370*

Overview of religious, social and theatrical dance forms, focusing on their purposes and themes within their historical context. Dance genres will be examined in terms of practices, movement, and music. Videos, live performances, discussions and readings will illuminate the social and cultural relevance of each genre studied. *NR*

## **DNCE 81 PEDAGOGY-TEACHING METHODS FOR MOVEMENT TRAINING**

### **3 Units - 2.5 hours lecture, 1.5 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: Prior dance technique training and/or movement science training.*

This course introduces the theory and practical applications of teaching movement, dance, body therapies and/or movement/dance science exercise techniques. Focus is on the development of a personal philosophy and on modes of delivery and learning appropriate to the various community and educational settings. Topics include the development of lesson plans, syllabi, student learning objectives and outcomes, modifications for special needs, and musical accompaniment. *NR*

## **DNCE 85 MUSIC FOR DANCE**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course assists the dancer and/or choreographer by providing practical training in basic music theory and musicianship. It focuses on systematically breaking down and investigating the terminology of and concepts behind "dancer musicality," rhythm and meter, melodic design, basic musical form, notation, and historical style. The course is designed to present the development of music and dance in a historical perspective; to develop through listening an awareness of available musical literature; and to train the dancer/choreographer and musician to work together by developing a common vocabulary and working knowledge of each other's craft. *NR*

## **DNCE 86 CONDITION AND CORRECT: BODY ALIGNMENT**

### **3 Units - 2.5 hours lecture, 1.5 hours lab**

*Transfers: CSU, UC*

Applies movement science concepts to various exercises from dance, conditioning, and body therapy programs (e.g. yoga, Pilates, massage, Alexander Technique) for dancers and non-dancers. It focuses on the awareness of posture and movement habits as related to anatomy, wellness and the reduction of the potential of pain and injury. Students start to retrain the body by learning proper warm-up and exercise set-up. Emphasis is on selecting effective and safe joint motions while maintaining alignment to gain the most benefit from each exercise. Flexibility, strength, posture, balance, coordination, endurance, relaxation and movement memory are enhanced as a result. Students are limited to taking four conditioning courses (DNCE 50, 86, 87, 88, 90, 91, or 92) for a maximum of 12 units. *NR*

## **DNCE 87 CONDITION AND CORRECT: ANALYSIS AND BODY THERAPIES**

**3 Units - 2.5 hours lecture, 1.5 hours lab**

*Transfers: CSU, UC*

This course builds upon the concepts from the overview course. It introduces and compares techniques from dance and various body therapy programs (e.g. Hatha Yoga, Reflexology, GYROKINESIS (R), Resistance training, Pilates) for dancers and non-dancers. It combines various types of stretch, strengthening, endurance, relaxation and body alignment exercises. Emphasis is on correct form and technique to promote greater technical ability in dance, sports, exercise, and other movement-based programs. The course includes information on anatomy and the care and prevention of injuries. Students are limited to taking four conditioning courses (DNCE 50, 86, 87, 88, 90, 91, or 92) for a maximum of 12 units. *NR*

## **DNCE 88 CONDITION AND CORRECT: MIND-BODY TECHNIQUES**

**3 Units - 2.5 hours lecture, 1.5 hours lab**

*Transfers: CSU, UC*

This course utilizes the Eastern Medicine mind-body techniques and methods from dance, exercise, and various therapy programs (e.g. Raja Yoga, Pilates, Myofascial release, Sweigard, Feldenkrais, GYROKINESIS(R)Techniques) to promote greater technical ability in dance, sports, exercise, and other movement-based programs. Emphasis is on efficiency of movement, agility, balance, flexibility, and the long-term care and prevention of injuries for oneself and others to be more marketable in any profession. It also includes information on kinesiology, nutrition, and the connections between eastern and western medicine. Students are limited to taking four conditioning courses (DNCE 50, 86, 87, 88, 90, 91, or 92) for a maximum of 12 units. *NR*

## **DNCE 90 DANCE TRAINING: THERABAND RESISTANCE WORKOUT**

**2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

This course is designed to provide students with intermediate-level dance conditioning using theraband resistance. Students will learn to apply correct placement, increase stretch and lines, and challenge core in intermediate-level movement patterns. Students are limited to taking four conditioning courses (DNCE 50, 86, 87, 88, 90, 91, or 92) for a maximum of 8 units. *NR*

## **DNCE 91 DANCE TRAINING: ROLLERS AND ROTATING DISCS WORKOUT**

**2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: Students should know basic dance terminology and be able to execute basic movement with the correct alignment*

This course is designed to provide students with dance training using rollers and rotating discs to further challenge placement, core, turn out capabilities, plumb line, and stretches in dance movement patterns. Students are limited to taking four conditioning courses (DNCE 50, 86, 87, 88, 90, 91, or 92) for a maximum of 8 units. *NR*

## **DNCE 92 DANCE TRAINING: FLOOR BARRE**

**2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: Any of the following courses: DNCE 6, DNCE 7, DNCE 11, DNCE 12, DNCE 16, DNCE 17, DNCE 18, DNCE 51, DNCE 52, DNCE 53, DNCE 54 or DNCE 86, DNCE 87, DNCE 88*

This course focuses on the components of correct placement and the biomechanics of dance movement. Floor Barre methodology as well as other dance conditioning methods will be used to develop and challenge core stabilization, elongation in stretches and movements, and efficient alignment in key movement patterns. Students will perform intermediate/advanced dance placement exercises and analyze their form and effectiveness. Students are limited to taking four conditioning courses (DNCE 50, 86, 87, 88, 90, 91, or 92) for a maximum of 8 units. *NR*

## **DNCE 93 GYROKINESIS (R): ART OF EXERCISING AND BEYOND, OVERVIEW**

**2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

An overview course introducing background information and a variety of formats within the holistic GYROKINESIS(R) methodology. It embraces some of the key principles and philosophies also found in yoga, dance, swimming, gymnastics, massage, and tai chi. The entire body is worked using three dimensional movement sequences designed to stretch and strengthen the muscles; articulate, decompress, and increase range of motion; and develop coordination and endurance. The objective is to improve overall health of mind, body, and spirit by teaching the body to move with fluidity, ease, and power. Students are limited to taking four Gyrokinesis courses (DNCE 93, DNCE 94, DNCE 95, DNCE 96, and DNCE 253) for a maximum of 8 units. *NR*

## **DNCE 94 GYROKINESIS (R): 90 MINUTE FORMAT**

**2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

A holistic method that embraces some of the key principles also found in yoga, dance, swimming, gymnastics, massage, and tai chi. The objective is to improve overall health of mind, body and spirit by teaching the body to move with fluidity, ease and power. The entire body is worked using three-dimensional movement sequences designed to stretch and strengthen the muscles; articulate, decompress, and increase the range of joint motion; and develop coordination and endurance. This is a beginning-level course for all students with emphasis on the 90 minute format and principles. Students are limited to taking four of the Gyrokinesis courses (DNCE 93, DNCE 94, DNCE 95, DNCE 96, or DNCE 253) for a maximum of 8 units. *NR*

## **DNCE 95 GYROKINESIS (R): 60 MINUTE FORMAT AND OTHER SEQUENCES**

**2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: DNCE 94 GYROKINESIS (R): 60 minute Format, and the other sequences taught in this course, merge eastern and western influences in a Holistic way.*

GYROKINESIS (R): 60 minute Format, and the other sequences taught in this course, merge eastern and western influences in a Holistic way. This format focuses on working the energetic pathways of the entire body integrating changing rhythms and breath patterns in fluid three-dimensional movement sequences. It is designed to deeply stretch and strengthen the muscles; articulate, decompress, and increase the range and quality of joint motions; and develop more complex rhythmic coordination and endurance. Emphasis is on also on spinal elongation, balanced motions and energy/chi stimulation. Students are limited to taking four of the Gyrokinesis courses (DNCE 93, 94, 95, 96, OR 253) for a maximum of 8 units. *NR*

## **DNCE 96 GYROKINESIS (R): ALTERNATIVE FORMATS AND MUSIC**

**2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: DNCE 94 or DNCE 95*

This course is a holistic system of exercise that works the entire body using three-dimensional movement sequences and coordinated breath patterns. The objective is health of mind, body and spirit achieved by merging of eastern and western approaches to training. This course will focus on new and alternative formats and methods in the system. It will also explore additional breathing techniques and patterns, self-massage, use of music, and restorative stress management methods intended to keep energy pathways open and especially improve the nervous, muscular and cardio-respiratory systems. This is a beginning/intermediate level course. Students are limited to taking four Gyrokinesis courses (DNCE 93, DNCE 94, DNCE 95, DNCE 96, or DNCE 253) for a maximum of 8 units. *NR*

## **DNCE 168 COOPERATIVE WORK EXPERIENCE: DANCE**

**1 Unit - 1 hour lab**

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 or a certificate. *NR*

## **DNCE 168 COOPERATIVE WORK EXPERIENCE: DANCE**

### **2 Units - 2 hours lab**

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 or a certificate. *NR*

## **DNCE 168 COOPERATIVE WORK EXPERIENCE: DANCE**

### **3 Units - 3 hours lab**

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 or a certificate. *NR*

## **DNCE 253 GYROKINESIS (R) THE ART OF EXERCISING AND BEYOND**

### **0.5 Unit - 2 hours lab**

GYROKINESIS(R) is a holistic system of exercise that embraces some of the key principles found in yoga, dance, swimming, gymnastics, massage, and tai chi. The entire body is worked using three-dimensional movement sequences designed to stretch and strengthen the muscles; articulate, decompress, and increase the range of joint motion; and develop coordination and endurance. Focus is on the natural directions of spinal movement and coordinated breath patterns intended to open energy pathways and enhance the nervous and circulatory systems. The objective is to improve overall health of mind, body and spirit by teaching the body to move with fluidity, ease and power. DNCE 253 may be taken once for a maximum of 1 unit. Students are limited to taking four Gyrokinesis courses (DNCE 93, DNCE 94, DNCE 95, DNCE 96, or DNCE 253) for a maximum of 8 units. *NR*

## **DNCE 253 GYROKINESIS (R) THE ART OF EXERCISING AND BEYOND**

### **1 Unit - 4 hours lab**

GYROKINESIS(R) is a holistic system of exercise that embraces some of the key principles found in yoga, dance, swimming, gymnastics, massage, and tai chi. The entire body is worked using three-dimensional movement sequences designed to stretch and strengthen the muscles; articulate, decompress, and increase the range of joint motion; and develop coordination and endurance. Focus is on the natural directions of spinal movement and coordinated breath patterns intended to open energy pathways and enhance the nervous and circulatory systems. The objective is to improve overall health of mind, body and spirit by teaching the body to move with fluidity, ease and power. DNCE 253 may be taken once for a maximum of 1 unit. Students are limited to taking four Gyrokinesis courses (DNCE 93, DNCE 94, DNCE 95, DNCE 96, or DNCE 253) for a maximum of 8 units. *NR*

# Design Model Making

## DMP 168 COOPERATIVE WORK EXPERIENCE: DESIGN MODEL MAKING

### 1 Unit - 1 hour lab

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 or a certificate. *NR*

## DMP 168 COOPERATIVE WORK EXPERIENCE: DESIGN MODEL MAKING

### 2 Units - 2 hours lab

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 or a certificate. *NR*

## DMP 168 COOPERATIVE WORK EXPERIENCE: DESIGN MODEL MAKING

### 3 Units - 3 hours lab

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 or a certificate. *NR*

## DMP 168 COOPERATIVE WORK EXPERIENCE: DESIGN MODEL MAKING

### 4 Units - 4 hours lab

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 or a certificate. *NR*

## DMP 200 INTRODUCTION TO MODEL MAKING AND DESIGN

### 1.5 Units - 1.5 hours lecture

This course introduces students to career options within the model-making industry. Onsite studio visits, guest speakers and career guides will give students an overview of the job skills and technologies required in the various disciplines of model

making. Areas of interest will include entertainment, product design, packaging, transportation, aerospace, medical design and architecture. The goal of the course is to facilitate each student's career path selection. Field trips may be required. *NR*

## **DMP 210 RAPID VISUALIZATION**

### **3 Units - 2 hours lecture, 3 hours lab**

This course introduces the principles of three-dimensional design as they relate to model making. Students work with a variety of materials and techniques, exploring three-dimensional description elements: value, texture, lighting, shade, shadow, composition, and perspective. Emphasis is placed on manual skill and dexterity. The course also introduces the fundamentals and techniques of ideational sketching. *NR*

## **DMP 220 BASIC MODEL MAKING**

### **3 Units - 2 hours lecture, 3 hours lab**

This course focuses on developing forms and shapes using a variety of basic model-making materials and hand fabrication techniques, with an emphasis on wood, plastic and metal processes. In addition to modeling with basic materials, students begin to develop skills using quick, visual model-development materials, including foam core, cardboard and clay. *NR*

## **DMP 221 ADVANCED MODEL MAKING I**

### **3 Units - 2 hours lecture, 3 hours lab**

*Prerequisite: DMP 220*

This course focuses on more advanced and complex methods used throughout the model-making industry. The course covers thermoforming, reinforced plastics, two-dimensional routing and engraving, and a variety of flexible tooling techniques used to make complex molds and parts. Students learn techniques for working with advanced casting materials, and surface preparation with textures, plating and painting. *NR*

## **DMP 222 ADVANCED MODEL MAKING II**

### **3 Units - 2 hours lecture, 3 hours lab**

*Prerequisite: DMP 221*

This course develops skills in using computer-aided design and manufacturing equipment and software to fabricate models. Designs will be created on three-dimensional solid modeling software and transferred to a three-dimensional computer aided manufacturing software for coding and post processing. Students will fabricate parts on a variety of equipment including CNC mills and lathes, laser cutters, and two and three-dimensional rapid modeling equipment. *NR*

## **DMP 230 3D COMPUTER DESIGN**

### **3 Units - 2 hours lecture, 3 hours lab**

A beginning level Computer-Aided Design course that provides basic techniques and applications utilized in the model-making industry. Students will learn to create basic 2D drawings and 3D solid models incorporating state-of-the-art PC-based software. Graphic creation and control will be learned using a variety of common softwares. *NR*

## **DMP 240 3D RAPID MODEL MAKING AND PROTOTYPE DEVELOPMENT I**

### **3 Units - 2 hours lecture, 3 hours lab**

*Prerequisite: DMP 222*

In this project development course students fabricate a variety of complex models within their selected discipline using advanced model-making equipment. Students use CNC milling, laser cutting, water jet cutting and 3D machining equipment to fabricate models. Field trips may be required. *NR*

## **DMP 241 3D RAPID MODEL MAKING AND PROTOTYPE DEVELOPMENT II**



**3 Units - 2 hours lecture, 3 hours lab**

*Prerequisite: DMP 240*

This is an advanced project development course in rapid prototyping. Students program, set up and operate a variety of 3-D modeling machines, including CNC machining and turning centers, water jet cutters, conventional lasers and metal lasers. Students will fabricate a variety of complex high tolerance parts within their selected discipline. Field trips may be required. *NR*

**DMP 260 MODELING AND PROTOTYPING METHODS AND MATERIALS****2 Units - 1 hour lecture, 3 hours lab**

This course introduces the many universal plastic materials and fabrication processes currently used in design and modeling. Emphasis is on the applications, fabrication techniques, and properties of many common plastic materials used today as well as emerging materials and their processes. *NR*

## Digital Media Art

**DMA 10 INTRODUCTION TO DIGITAL MEDIA****3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

This course provides an overview of digital media fundamentals. Students will explore historical and contemporary approaches to digital media art using industry-standard software. Emphasis is on extensive hands-on projects to develop skills and techniques for digital imaging, illustration, and animation. Students will develop a portfolio and gain insight into current trends and career options for digital media art. Prior computer software experience is not required. *NR*

**DMA 40 DIGITAL 2D DESIGN AND COLOR THEORY****3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: DMA 10*

This foundation course introduces the fundamentals of art and design within a digital environment. Students will use digital media software to create various artistic projects while exploring the elements and principles of design and color theory. DMA 40 was formerly offered as DMA 140. *NR*

**DMA 50 HISTORY OF GRAPHIC DESIGN****3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This concise history traces the development of graphic design from the invention of writing to the digital revolution. The course explores the origins of printing and book design from early medieval manuscripts to Renaissance, Victorian and Art Nouveau graphics, and the evolution of twentieth century design styles and theories from the modernist era through postmodernism and the digital age. DMA 50 is also listed as ARTH 50; credit will be given in either area, not both. DMA 50 was formerly offered as DMA 150. *NR*

**DMA 51 BEGINNING DIGITAL PHOTOGRAPHY****3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

This beginning course focuses on digital photography as a creative medium. Emphasis will be placed on conceptual, technical, and creative photography skills. The course covers the use of digital cameras and digital imaging software to capture, import, edit, and distribute digital photographs. DMA 51 is also listed as PHOT 51; credit will be given in either area, not both. *NR*

## **DMA 52 INTERMEDIATE DIGITAL PHOTOGRAPHY**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: DMA 51/PHOT 51*

This course addresses the theoretical, aesthetic, and technical application of photography at an intermediate level. Fine art and commercial photography subjects will be explored. Emphasis will be placed on producing a portfolio of original photographs using creative lighting, color, and digital effects. DMA 52 is also listed as PHOT 52; credit will be given in either area, not both. *NR*

## **DMA 55 GRAPHIC DESIGN I**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: DMA 10*

This course is an introduction to the concepts, processes, and practices of graphic design. Emphasis will be placed on developing problem-solving skills; applying the principles and elements of design; and integrating digital imagery, illustration, typography, and color theory in design projects. *NR*

## **DMA 60 PRINT MEDIA DESIGN AND PRODUCTION**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: DMA 55*

This intermediate course focuses on the design and production process for print media. The course will cover the print media workflow from planning and design to file preparation and output. Projects will include designing with type, photographs, and illustrations for print media. DMA 60 was formerly offered as DMA 170. *NR*

## **DMA 65 TYPOGRAPHY**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: DMA 55*

This course is designed to develop a greater understanding of typographic form and function within graphic design. Students explore typography as a visual form through a series of fundamental design projects. The course provides a historical basis for the development of letterforms, tracing the progression from Gutenberg to the digital revolution. *NR*

## **DMA 70 DIGITAL VIDEO PRODUCTION**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

This course is an introduction to the theory, practice, and aesthetics of digital video production. The course explores the preproduction, production, and postproduction workflows including the basics of camera operation, lighting, editing, and output. Emphasis is on producing video projects that demonstrate conceptual and technical proficiency. *NR*

## **DMA 75 EXPERIMENTAL VIDEO**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: DMA 70*

This course focuses on video as a creative medium. Students will explore historical, conceptual, and technical aspects of film and video art to produce a variety of experimental projects including abstract films, non-narrative shorts, and music videos. *NR*

## **DMA 80 VISUAL DESIGN FOR THE WEB**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: DMA 10*

This intermediate course explores the fundamentals of design and aesthetics for the Web. Emphasis is placed on layout, color, texture, typography, interactive elements, and user experience design using industry-standard design software. DMA 80 was formerly offered as DMA 180. *NR*

## **DMA 85 VISUAL STORYTELLING**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: DMA 10 and DMA 70*

This course focuses on visual storytelling techniques using photography, illustration, graphic design, and video. Students will use various digital media software to produce visual storytelling projects for content marketing, entertainment, and fine art. DMA 85 was formerly offered as DMA 165. *NR*

## **DMA 120 MOTION GRAPHICS**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU*

*Recommended Preparation: DMA 10*

This course introduces the principles of motion graphics design, including conceptual, aesthetic, and production considerations. It explores fundamental and experimental approaches to creating two-dimensional motion graphics with artistic integrity for video and the Web. *NR*

## **DMA 160 GRAPHIC DESIGN II**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU*

*Recommended Preparation: DMA 55*

This intermediate course covers the graphic design process and its application to professional studio assignments, including corporate, editorial, packaging, and advertising design projects. Emphasis is on integrating the principles and techniques of commercial graphic design practice. *NR*

## **DMA 175 CORPORATE IDENTITY- TRADEMARKS AND LOGOS**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU*

*Recommended Preparation: DMA 55 and DMA 65*

This intermediate graphic design course covers the process of developing and creating corporate and brand identities. The course explores logos, typography, and identity systems. Students use industry-standard software applications to develop a professional portfolio of designs. *NR*

## **DMA 191 PORTFOLIO DEVELOPMENT**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU*

This course covers the development and presentation of a professional fine art and graphic design portfolio. Emphasis is on the selection of appropriate work, conceptual improvement, and methods of presentation, including digital and traditional formats. Students will complete a professional resume, cover letter, and artist's statement suitable for transfer or the job market. DMA 191 is also listed as ART 191; credit will be given in either area, not both. *NR*

## **DMA 195 ILLUSTRATION**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU*

*Prerequisite: ART 80*

*Recommended Preparation: ART 50 and ART 85*

This course introduces students to the fundamental principles and practices of illustration and the process of developing and communicating visual ideas and imagery. Emphasis is on refining the student's personal visual vocabulary and addressing practical issues within the professional world of illustration. DMA 195 is also listed as ART 195; credit will be given in either area, not both. *NR*

## **Drafting**

### **DR 50 INTRODUCTION TO COMPUTER-AIDED DRAFTING**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: MATH 124*

This is an introductory course in the operation and application of a computer-aided drafting (CAD) system that is used to create, modify, store, and plot mechanical and architectural drawings. Students create and analyze 2D projections and 3D models of conventional parts that conform to industry practices and standards. *NR*

### **DR 52 ENGINEERING DRAWING AND DESIGN**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

This course is designed to develop the basic skills needed for industrial-level engineering drawing and conceptual design, including assembly drawings and detail drawings. The course introduces the fundamentals of mechanical design and strategies for creative design. It includes the basic design process used for machine drawings, castings, cams, weldments, and power transmissions, with integrated problems and solutions. DR 52 was formerly offered as DR 101. *NR*

### **DR 203 INTRODUCTION TO ARCHITECTURAL DRAFTING**

**3 Units - 2 hours lecture, 4 hours lab**

This course introduces students to the terminology, construction methods, and computer-aided drafting methods associated with modern architectural design. Students gain practical experience integrating residential modeling techniques into industry-standard 2D projected drawings used to illustrate the majority of conventional buildings. The course also covers basic 3D modeling structures, as well as the materials of construction and physical assembly methods that are required for proper manufacture. *NR*

### **DR 204 3D ARCHITECTURAL DESIGN WITH BUILDING INFORMATION MODELING**

**3 Units - 2 hours lecture, 4 hours lab**

This is an advanced 3D architectural modeling course with elements of building information modeling (BIM). The course is primarily intended to develop student skills in modern 3D architectural CAD modeling and its use in generating standard 2D projected working sets of drawings. It is also designed to give students the ability to work cooperatively with professionals in the construction field, by teaching software driven planning structure, design processes, and standard architectural and civil engineering terminology. *NR*

## **Earth Science**

## **ERTH 20 INTRODUCTION TO EARTH SCIENCE**

**4 Units - 3 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

This course introduces and unifies the central theories of geology, oceanography, meteorology, and astronomy. Students study the universe and solar system, the planet Earth and its constituents, rocks and minerals, drifting crustal plates, and processes such as mountain building and earthquakes. Students also study oceans and shorelines, the atmosphere, and climate. The effect of these disparate realms on life, past and present, is considered along with the effects of pollution of the natural environment. Field trips may be required. C-ID: GEOL 121. *NR*

## **Economics**

### **ECON 1 PRINCIPLES OF ECONOMICS - MICRO**

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Prerequisite: MATH 353*

*Recommended Preparation: ECON 20*

This course introduces the concepts and tools of microeconomic analysis. It investigates the problems that result from scarcity and how individuals and groups make decisions, given scarcity. The primary areas of focus are: markets and prices, marginal analysis, the decision-making processes of individuals and firms, industrial organization and resource markets. These principles can be used to analyze such things as government economic policies, environmental issues, the distribution of income, anti-trust policy, and international trade. Credit may be earned in either ECON 1 or ECON 1H, but not both. C-ID: ECON 201. *NR*

### **ECON 1H PRINCIPLES OF ECONOMICS - MICRO HONORS**

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Prerequisite: MATH 353*

*Recommended Preparation: ECON 20*

ECON 1H is an intensive introductory course that employs higher order thinking skills which include analysis, interpretation, and evaluation of texts and outside readings. It also uses applied mathematical and graphical analysis techniques to evaluate economic decisions and policies. The primary areas of focus include scarcity, resource allocation, decision-making of individuals and firms, markets prices, industrial organization, marginal analysis and maximization, resource markets, and evaluation of government economic policies. The course is enriched by smaller class size, additional analytical techniques, and an expanded range of topics. Credit may be earned in either ECON 1 or ECON 1H, but not both. C-ID: ECON 201. *NR*

### **ECON 2 PRINCIPLES OF ECONOMICS - MACRO**

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Prerequisite: MATH 353*

*Recommended Preparation: ECON 20*

This course examines and analyzes the economic problems of scarcity, recession, unemployment, and inflation. Investigation centers on business cycles, economic growth, determination and the measurement of output and income in the economy, money creation and the banking system, monetary and fiscal policy options, effects of the public debt, and international trade and finance. Credit may be earned in either ECON 2 or ECON 2H, but not both. C-ID: ECON 202. *NR*

### **ECON 2H PRINCIPLES OF ECONOMICS - MACRO HONORS**

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Prerequisite: MATH 353*

*Recommended Preparation: ECON 20*

ECON 2H is an enriched principles of macroeconomics course that emphasizes the use of higher order skills including mathematical and graphical analysis, interpretation and evaluation of the text material and outside readings. It employs these techniques to evaluate economic decisions, policies, and macroeconomic institutions. The primary areas of focus include scarcity and individual choice, determination of national income, inflation, unemployment, money creation and banking, examination of fiscal and monetary policies and options, economic growth, the level and affects of public debt, and international trade and finance. The course is enriched by smaller class size, additional analytical techniques, and an expanded range of topics. Credit may be earned in either ECON 2 or ECON 2H, but not both. C-ID: ECON 202. *NR*

## **ECON 6 ENVIRONMENTAL AND RESOURCE ECONOMICS**

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Recommended Preparation: WR 1 and MATH 253*

This introductory environmental and resource economics course focuses on resource, agricultural, and environmental issues and related policy analysis. The course applies microeconomic principles, models and analytical tools to problems of natural resource use and environmental quality caused by human populations. Students examine and evaluate policies to remedy the market failure of inefficient resource use and environmental degradation, both nationally and internationally. ECON 6 is also listed as ENV 6; credit will be given in either area, not both. *NR*

## **ECON 10 STATISTICS FOR BUSINESS AND ECONOMICS**

**3 Units - 2.5 hours lecture, 1.5 hours lab**

*Transfers: CSU, UC*

*Prerequisite: MATH 253*

*Recommended Preparation: ECON 1, ECON 1H, ECON 2 or ECON 2H*

This introductory course presents statistical concepts and methods used extensively in economics, business, social sciences, psychology, life and health sciences, and education including computer-based statistical analysis. Students study descriptive and inferential statistics and perform statistical analysis. Emphasis is on problem solving and interpretation. Credit may be earned in ECON 10 or 10H, but not both. Also listed as MGT 10 or 10H; credit may be earned in one course, not all. C-ID: MATH 110. *NR*

## **ECON 10H STATISTICS FOR BUSINESS AND ECONOMICS HONORS**

**3 Units - 2.5 hours lecture, 1.5 hours lab**

*Transfers: CSU, UC*

*Prerequisite: MATH 253*

*Recommended Preparation: ECON 1, ECON 1H, ECON 2 or ECON 2H*

This introductory honors course presents statistical concepts and methods used extensively in economics, business, social sciences, psychology, life and health sciences, and education including computer-based statistical analysis. Students study descriptive and inferential statistics and perform statistical analysis. Emphasis is on problem solving and interpretation. This honors course is enriched through a course project that applies statistical analysis to a case study and is shared through a class presentation. Credit may be earned in ECON 10 or 10H, but not both. Also listed as MGT 10 or 10H; credit may be earned in one course, not all. *NR*

## **ECON 13 GLOBAL ECONOMICS**

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Recommended Preparation: WR 1, MATH 253 and one economics course*

This survey course presents a wide range of issues concerning the contemporary global economy from historical, political, and economic perspectives. It is suitable for students from all majors and backgrounds and anyone interested in learning about issues

confronting the global economy. The course examines international economic choices using basic economic theories and principles to address such topics as the effects of globalization, international trade and trade restrictions, international finance, foreign exchange markets and exchange rate systems, international capital flows, and the role of governments in the global economy. *NR*

## **ECON 20 INTRODUCTORY ECONOMICS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course, designed for non-economics and non-business majors, provides a survey of both micro and macroeconomic principles and provides a foundation for ECON 1 and 2. Microeconomic areas of emphasis include scarcity, markets, supply and demand, industrial organization, and marginal analysis used for decision making by individuals and firms. Macroeconomic areas of emphasis include national income accounts, money and monetary policy, economic stabilization policies, economic growth, and international trade and finance. Credit may be earned in ECON 20 or 20H, but not both. *NR*

## **ECON 20H INTRODUCTORY ECONOMICS HONORS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Designed for non-economics and non-business majors, this course provides a survey of both micro and macroeconomic principles and provides a foundation for ECON 1 and 2. Microeconomic areas of emphasis include scarcity, markets, supply and demand, industrial organization, and marginal analysis used for decision making by individuals and firms. Macroeconomic areas of emphasis include national income accounts, money and monetary policy, economic stabilization policies, economic growth, and international trade and finance. ECON 20H stresses higher order skills including analysis, interpretations, evaluation of texts and outside reading. Credit may be earned in ECON 20 or 20H, but not both. *NR*

## **ECON 105 PERSONAL FINANCIAL PLANNING**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

*Recommended Preparation: WR 1 and MATH 253*

This course covers the proper management of personal incomes and expenditures using criteria, methodology and resources for effective financial planning. Topics include the study of inflation and business cycles; career planning; money/credit management; insurance analysis; investment and retirement planning; and tax strategies. The course uses an integrative approach that focuses on practical financial decision making as well as the social, psychological and physiological contexts in which those decisions are made. Students will examine their relationship with money, set personal goals and develop a plan to meet those goals. ECON 105 is also listed as MGT 105; credit will be given in either area, not both. *NR*

## **ECON 167 COOPERATIVE WORK EXPERIENCE: ECONOMICS**

### **1 Unit - 1 hour lab**

*Transfers: CSU*

*Limitation: Student must have taken or must be currently taking a course in college-level economics. Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 or a certificate. *NR*

## **ECON 167 COOPERATIVE WORK EXPERIENCE: ECONOMICS**

**2 Units - 2 hours lab**

*Transfers: CSU*

*Limitation: Student must have taken or must be currently taking a course in college-level economics. Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 or a certificate. *NR*

**ECON 167 COOPERATIVE WORK EXPERIENCE: ECONOMICS****3 Units - 3 hours lab**

*Transfers: CSU*

*Limitation: Student must have taken or must be currently taking a course in college-level economics. Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 or a certificate. *NR*

**ECON 167 COOPERATIVE WORK EXPERIENCE: ECONOMICS****4 Units - 4 hours lab**

*Transfers: CSU*

*Limitation: Student must have taken or must be currently taking a course in college-level economics. Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 or a certificate. *NR*

## **Electrical Technology**

**ELEC 200 OSHA STANDARDS FOR CONSTRUCTION SAFETY****3 Units - 3 hours lecture**

This course covers OSHA policies, procedures, and standards, as well as construction safety and health principles. Topics include scope and applications of the OSHA construction standards. Special emphasis is placed on those areas that are the most hazardous, using OSHA standards as a guide. Upon successful course completion and final examination with 75% or more correct answers the student will receive an OSHA 30-hour Construction Outreach Training Completion Card. *NR*

**ELEC 200A OSHA 10****1 Unit - 1 hour lecture**

This course covers OSHA policies, procedures, and standards, as well as construction safety and health principles. Topics include scope and applications of the OSHA construction standards. Special emphasis is placed on those areas that are the most hazardous, using OSHA standards as a guide. Upon successful course completion and final examination with 75% or more correct answers the student will receive an OSHA 10-hour Construction Outreach Training Completion Card. *NR*



## **ELEC 201 RESIDENTIAL WIRING**

### **4 Units - 3 hours lecture, 3 hours lab**

This course provides practical instruction for wiring homes according to National Electrical Code (NEC) rules, covering all code requirements and construction practices for installing electrical systems in one- and two-family dwellings. Through classroom and laboratory instruction, the course covers planning, service equipment, wiring methods, lighting, and the special requirements for kitchens, bathrooms, and other residential living spaces. Outdoor installations are also covered, as well as swimming pools, spas, heating, ventilation, and air conditioning (HVAC) equipment, and remodeling (old work). Safety requirements and procedures are emphasized throughout. *NR*

## **ELEC 202 NATIONAL ELECTRICAL CODE - RESIDENTIAL**

### **3 Units - 3 hours lecture**

This course is an introduction to the National Electrical Code (NEC) requirements for residential wiring. The course covers electrical wiring diagrams, material use, installation methods and calculations of electrical loads used to size feeders and conductors. This course is designed for job seekers in the construction, electrical and air conditioning trades; contractors; and lighting specialists. *NR*

## **ELEC 203 COMMERCIAL AND INDUSTRIAL WIRING**

### **4 Units - 3 hours lecture, 3 hours lab**

*Prerequisite: ELEC 201*

This course provides practical instruction for wiring commercial buildings according to National Electrical Code (NEC) rules, covering all code requirements and construction practices for installing electrical systems in commercial facilities. Through classroom and laboratory instruction, the course covers planning, working drawings, service equipment, wiring methods, branch and feeder circuits, overcurrent protection, motor and appliance circuits, and lighting, as well as heating, ventilation, and air conditioning (HVAC) equipment. Safety requirements and procedures are emphasized throughout. *NR*

## **ELEC 210 INTRODUCTION TO RENEWABLE ENERGY**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course will introduce students to renewable energy sources (wind, solar, micro-hydro, geothermal et. al.) along with the advantages and disadvantages of each. Suitable use for each energy source will be discussed, as well as emerging technology, products, and programs available that allows builders and owners to take advantage of renewable energy. *NR*

## **ELEC 211 GRID-TIED SOLAR PHOTOVOLTAIC SYSTEMS**

### **4 Units - 3 hours lecture, 3 hours lab**

*Prerequisite: ELEC 210*

This first level lecture/laboratory electrical course will introduce students to the components that make up a photovoltaic (PV) system and the function of each. Students will also learn how to install, troubleshoot, and maintain a residential solar electric system. The student will perform calculations and measure efficiencies of the three major types of PV modules and analyze components and their functions. *NR*

## **ELEC 212 ADVANCED SOLAR PHOTOVOLTAICS**

### **3 Units - 3 hours lecture**

*Prerequisite: ELEC 210 and ELEC 211*

In this second level lecture/laboratory course students build upon skills learned in Solar 1-Grid-Tied to design and implement a cost-effective stand-alone photovoltaic (PV) system with battery backup. Students will also learn how to analyze data from system monitoring hardware and software, and use data to adjust a PV system to optimal performance. Student will work in groups to complete simulated tasks and objectives related to PV system. *NR*

# Electronic Technology

## ET 92 BASIC ELECTRIC CIRCUITS I

**4 Units - 3 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: MATH 351*

This introductory course studies the basic concepts of electricity and their practical applications. The course focuses on basic two-terminal passive devices, direct current and transient circuits, plus standard laboratory test equipment and procedures. Students analyze, test, design and troubleshoot specific devices and circuits, including batteries, resistors, capacitors and inductors connected in series, parallel, and series-parallel circuits. ET 92 was formerly offered as ET 102. *NR*

## ET 99 DIGITAL ELECTRONIC CIRCUITS

**4 Units - 3 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

*Prerequisite: ET 92*

*Corequisite: Prior completion of or concurrent enrollment in ET 105*

This course introduces the fundamental concepts of digital electronics, including binary numbers, truth tables, logic families, and Boolean algebra. Students test, troubleshoot, analyze, and design digital circuits including gate networks, flip-flops, astables; monostables, registers, counters, memories, digital-to-analog (D/A) and analog-to-digital (A/D) converters, programmable logic devices, tri-state logic, and data communication circuits. *NR*

## ET 101 ELECTRONICS IN EVERYDAY LIFE

**3 Units - 2.5 hours lecture, 1.5 hours lab**

*Transfers: CSU*

This course provides an introduction to the field of electronics. The course studies basic electronic principles, components and terminology and their practical application in such areas as radio, television, digital devices, household and automotive electronics. *NR*

## ET 104 BASIC ELECTRIC CIRCUITS II

**4 Units - 3 hours lecture, 3 hours lab**

*Transfers: CSU*

*Prerequisite: ET 92*

This course covers the principles and applications of AC circuits, including reactance, impedance, resonance, residential wiring and lighting, filters, spectrum analysis, audio, telephone, and radio. Students analyze, test, design and troubleshoot the devices and circuits studied. *NR*

## ET 105 ELECTRONIC DEVICES AND CIRCUITS I

**4 Units - 3 hours lecture, 3 hours lab**

*Transfers: CSU*

*Prerequisite: ET 92*

This course studies basic solid-state devices and their application circuits. Students test devices such as diodes, LEDs, transistors and thyristors and measure their characteristics. The course covers the analysis, troubleshooting, and design of solid-state application circuits, including rectifiers, switching circuits, and amplifiers. *NR*

## ET 107 ELECTRONIC DEVICES AND CIRCUITS II

**4 Units - 3 hours lecture, 3 hours lab**

*Transfers: CSU*

*Prerequisite: ET 105*

This course continues the study of solid-state devices and their application circuits begun in ET 105. Students test and measure the characteristics of such devices as field effect transistors (FETs), operational amplifiers (op amps), linear integrated circuits, active filters, analog switches, opto-electronics, and fiber optics. They also analyze, design, and troubleshoot application circuits, including amplifiers, power supplies, voltage regulators, and oscillators. *NR*

**ET 116 INDUSTRIAL ELECTRONICS****4 Units - 3 hours lecture, 3 hours lab**

*Transfers: CSU*

*Recommended Preparation: ET 99*

This course deals with the application of electronics to industrial monitoring and control. It introduces the basic functional blocks used in industrial systems, including sensors, actuators, controllers, and signal processors. The course covers how to monitor and control industrial processes using a microcomputer or a programmable logic controller (PLC), and how to test, troubleshoot, analyze, and design commonly used industrial circuits and systems. Topics include digital and relay logic, time delay, motors, triacs, robotics, closed-loop control, and remote control. *NR*

**ET 119 INDUSTRIAL AUTOMATION USING PLCS****2 Units - 1.5 hours lecture, 1.5 hours lab**

*Transfers: CSU*

This course introduces the PLC, or programmable logic controller, a small, specialized computer used to control and monitor industrial processes. Students gain hands-on experience in both connecting the PLC to external equipment and programming it using ladder diagrams. Topics covered include relay ladder logic, latching, timing, counting, sequential control, sensors, and actuators. *NR*

**ET 120 INTRODUCTION TO MICROPROCESSORS AND MICROCONTROLLERS****4 Units - 3 hours lecture, 3 hours lab**

*Transfers: CSU*

*Recommended Preparation: ET 99*

This course introduces the microprocessor and microcontroller. Topics include tri-state buses, memory, input/output (I/O) ports, address decoding, assembly and machine language programming, addressing modes, logical and mathematical operations, branching, loops, subroutines, interfacing, interrupts, and troubleshooting techniques. Students design the hardware, software, and interfacing circuitry to provide a microprocessor-or microcontroller-based function, or a complete system. *NR*

**ET 122A EMBEDDED CONTROL SYSTEMS I****2 Units - 1.5 hours lecture, 1.5 hours lab**

*Transfers: CSU*

*Recommended Preparation: ET 99*

This course covers embedded control systems based on the popular Microchip or Atmel series of controllers. Topics include microcontroller architecture and instruction set, software development tools, timers, subroutines, interrupts, and input/ output interfacing. Students design and construct the hardware, software, and interfacing circuitry to provide a complete embedded control system. *NR*

**ET 122B EMBEDDED CONTROL SYSTEMS II****2 Units - 1.5 hours lecture, 1.5 hours lab**

*Transfers: CSU*

*Prerequisite: ET 122A*

This course continues the study of embedded controls systems begun in ET 122A using the popular Microchip or Atmel series of controllers. Students design and construct an individual microcontroller project, including the hardware, software, and interfacing circuitry. *NR*

## **ET 168 COOPERATIVE WORK EXPERIENCE: ELECTRONIC TECHNOLOGY**

### **1 Unit - 1 hour lab**

*Transfers: CSU*

*Prerequisite: Student must have taken or must be currently taking a course in college-level electronic technology*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 a certificate. *NR*

## **ET 168 COOPERATIVE WORK EXPERIENCE: ELECTRONIC TECHNOLOGY**

### **2 Units - 2 hours lab**

*Transfers: CSU*

*Prerequisite: Student must have taken or must be currently taking a course in college-level electronic technology*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 a certificate. *NR*

## **ET 168 COOPERATIVE WORK EXPERIENCE: ELECTRONIC TECHNOLOGY**

### **3 Units - 3 hours lab**

*Transfers: CSU*

*Prerequisite: Student must have taken or must be currently taking a course in college-level electronic technology*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 a certificate. *NR*

## **Emeritus Institute - Accounting**

### **ACCT 405 PERSONAL FINANCE**

#### **0 Units - 3 hours lecture**

This course for older adults covers the management of personal finances using the criteria, methodology and resources for effective financial planning. Topics include money management, insurance analysis, investment and retirement planning, and tax strategies. Students will set personal goals and develop a financial plan to meet those goals. This is a non-credit open-entry/open-exit course. *R-E-999*

## **Emeritus Institute - Art**

## **ART 400 ART HISTORY**

### **0 Units - 1 hour lecture**

This course provides older adults an overview of the history of Western art. The course focuses on major works of art from the prehistoric to postmodern period. This is an open-entry/open-exit course. *R-E-99*

## **ART 403 ART MEDIA**

### **0 Units - 3 hours lab**

This noncredit course introduces older adults to various art media, which may include drawing, painting, printmaking, beading, stained glass, or ceramics. It is designed to develop student's appreciation of art and foster their creative expression. The course also includes the improving of fine motor skills and maintaining cognitive abilities. A list of instructional materials will be provided at the first class session. This is an open-entry/open-exit course. *R-E-999*

## **ART 405 BEGINNING OIL PAINTING**

### **0 Units - 0.5 hour lecture, 1 hour lab**

This course is an introduction to the materials and techniques used in oil painting for the older adult. Students will have an opportunity to paint still life, floral, landscape, portrait, and abstract compositions. A list of instructional materials will be provided at the first class session. This is an open-entry/open-exit course. *R-E-99*

## **ART 408 FLORAL DESIGN-BEGINNING**

### **0 Units - 1.5 hours lecture, 1.5 hours lab**

This open-entry/open-exit course for older adults is an introduction to care and handling of fresh flowers, greens and plants in floral design. Detailed instruction and demonstrations of arrangements, corsages, and holiday designs will be given along with individual design time for the execution of take-home projects. *R-E-999*

## **ART 410 INTERMEDIATE PAINTING**

### **0 Units - 0.5 hour lecture, 1 hour lab**

This intermediate painting course for the older adult emphasizes color theory, composition, and perspective in the application of oil, acrylic, and mixed media. Students will participate in exhibit, framing and installation activities. A list of instructional materials will be provided at the first class session. Students may meet with the instructor at alternate locations. This is an open-entry/open-exit course. *R-E-99*

## **ART 420 PAINTING IN SUBJECT AREAS**

### **0 Units - 0.5 hour lecture, 1 hour lab**

This course is an introduction to the theory, history and practice of landscape, seascape, life, and still life painting for the older adult. The materials, applications, and techniques relevant to each subject area will be emphasized. A list of instructional material will be provided at the first class session. This is an open-entry/open-exit course. *R-E-999*

## **ART 424 BEGINNING SKETCHING**

### **0 Units - 0.5 hour lecture, 1 hour lab**

This course presents beginning sketching techniques and media for the older adult. Students will create still lifes, gesture/figure drawings and outdoor sketches in the classic media of pencil, pen and ink, charcoal and pastel. A list of instructional materials will be provided at the first class session. This is an open-entry/open-exit course. *R-E-99*

## **ART 425 INTERMEDIATE SKETCHING**

**0 Units - 0.5 hour lecture, 1 hour lab**

This course presents intermediate sketching techniques and media for older adults. Students will create life drawings, landscapes, and still life compositions in the classic media of pencil, pen and ink, charcoal, and pastel. A list of instructional materials will be provided at the first class session. This is an open-entry/open-exit course. *R-E-99*

**ART 426 ADVANCED SKETCHING****0 Units - 0.5 hour lecture, 1 hour lab**

*Recommended Preparation: ART 425*

This course presents advanced-level sketching techniques and media for older adults. Students will create life drawings, landscapes, and still life compositions in the classic media of pencil, pen and ink, charcoal and pastel, as well as new and mixed media. Abstract and experimental techniques will be emphasized. A list of instructional materials will be provided at the first class session. This is an open-entry/open-exit course. *R-E-99*

**ART 430 BEGINNING WATERCOLOR****0 Units - 0.5 hour lecture, 1 hour lab**

This course for older adults introduces the materials and techniques used in watercolor painting. The course presents the basic methods of applying watercolor in washes, color mixing, and brush techniques, emphasizing the spontaneity of transparent watercolor. A list of instructional materials will be provided at the first class session. This is an open-entry/open-exit course. *R-E-99*

**ART 435 INTERMEDIATE/ADVANCED WATERCOLOR****0 Units - 0.5 hour lecture, 1 hour lab**

*Recommended Preparation: ART 430*

This is a course in intermediate and advanced watercolor applications and brush techniques for older adults. Emphasis will be placed on color mixing in a broader palette for washes, glazing, and spontaneous interpretation of the subject matter. A list of instructional materials will be provided at the first class session. This is an open-entry/open-exit course. *R-E-99*

## **Emritus Institute - Food and Nutrition**

**FN 400 NUTRITION/COOKING FOR ONE OR TWO****0 Units - 1.5 hours lecture, 1.5 hours lab**

This course offers practical information about nutrition, food preparation, menu planning, and food shopping for one or two people, focusing on the dietary needs of older adults. Simplified meal preparation will be demonstrated in the cooking lab. This is an open-entry/open-exit course. *R-E-99*

## **Emeritus Institute - Health**

**HLTH 400 HEALTH AND FITNESS FOR THE MATURE ADULT****0 Units - 0.5 hour lab**

This course assesses the physical and mental health processes of aging and stresses the importance of exercise in maintaining independence in daily activities. Topics include cognitive and physical exercise, diet, nutrition, and disease and injury prevention as it relates to the older adult. This is an open-entry/open-exit course. *R-E-99*

# Emeritus Institute - Literature

## ENG 435 FILM GENRES

### 0 Units - 1.5 hours lab

A formal analysis of film as an art form for older adults. Films of various styles and periods will address issues of plot, character, setting, dialogue, imagery and symbolism. This is an open-entry/open-exit course. *R-E-99*

# Emeritus Institute - Music

## MUS 400 MUSIC APPRECIATION

### 0 Units - 1 hour lecture, 0.5 hour lab

This course is an introduction to music appreciation for older adults. The course provides an overview of important periods and styles of music, the form of compositions, practical music theory, the concert program, and the role and contribution of various instruments and voices in the orchestra. This is an open-entry/open-exit course. *R-E-99*

## MUS 450 BEGINNING PIANO

### 0 Units - 0.5 hour lecture, 1 hour lab

This is a beginning course in popular and classical piano technique for older adults. The course focuses on music theory, note reading, scales, fingering, chording, sight reading, and performance techniques. This is an open-entry/open-exit course. *R-E-99*

## MUS 451 INTERMEDIATE PIANO

### 0 Units - 0.5 hour lecture, 1 hour lab

This is an intermediate-level course in classical and popular piano technique and performance for older adults. The course focuses on theory, fingering, interpretation techniques, sight reading, and repertoire development. This is an open-entry/open-exit course. *R-E-99*

## MUS 452 EARLY ADVANCED PIANO

### 0 Units - 1.5 hours lecture, 1.5 hours lab

Recommended Preparation: MUS 451, MUS 46, or two years of piano.

This course provides group piano instruction at the advanced level for older adults. The course focuses on the historical background and theoretical structure of works from the Baroque, Classical, Romantic, and Modern periods; and on the analysis and criticism of each performance through teacher and group discussion. Preparation for performances includes research and listening in addition to much practice. Students strengthen and refine skills in style, interpretation, and technique, participating in both individual and group assignments. This is an open-entry/open-exit course. *R-E-99*

## MUS 454 PIANO MASTER CLASS-SOLO AND COLLABORATIVE PIANO

### 0 Units - 3 hours lab

This course provides advanced piano master classes and performance opportunities for older adults. The emphasis is on the development of individual musicianship and the skills needed to perform within an ensemble. Participation in formal concerts is encouraged. This is an open-entry/open-exit course. *R-E-99*

## **MUS 460 REHEARSAL AND PERFORMANCE: INSTRUMENTAL**

### **0 Units - 1 hour lecture, 1 hour lab**

Recommended Preparation: Previous instrumental training and demonstrated proficiency

This course for older adults focuses on the study, preparation, and performance of an orchestral concert repertoire. Students may participate in concerts and recitals at alternate locations. This is an open-entry/open-exit course. *R-E-99*

## **MUS 461 MAKE MUSIC FOR LIFE**

### **0 Units - 1.5 hours lecture, 1.5 hours lab**

This open-entry/open-exit course, for older adults, focuses on improving technical skills, musical interpretation, and the joy of playing music in a group setting. Emphasis includes deep breathing, poised relaxation, and a scientific approach to tone production. The class is open to woodwind, brass, string and percussion instrumentalists. *R-E-99*

## **MUS 480 CHORAL ENSEMBLE**

### **0 Units - 0.75 hours lecture, 0.75 hours lab**

This is a course in choral singing and choral literature for older adults. The course focuses on developing correct singing techniques, vocal production, and sight-reading skills. Students may participate in concerts and recitals at alternate locations. This is an open-entry/open-exit course. *R-E-99*

# **Emeritus Institute - Theatre Arts**

## **TA 415 THEATRE REHEARSAL AND PERFORMANCE**

### **0 Units - 1.5 hours lab**

This course for older adults focuses on the preparation, rehearsal, and performance of public theatre productions. Students participate in selecting a production, analyzing the script, auditioning, acting, technical preparation, and production management. This is an open-entry/open-exit course. *R-E-99*

## **TA 416 VOICE AND DICTION FOR THE MATURE ADULT**

### **0 Units - 3 hours lecture**

In this course adult students study and assess the physical and mental health processes of an aging voice through the study of principles and practices of vocal and articulatory development and control for the adult. The course provides drills in phonation and drills for clarity, ease in articulation, resonance, vocal variety and injury prevention as it relates to the older adult. This is an open-entry/open-exit course. *R-E-99*

## **TA 445 THEATRICAL SCENE PAINTING AND FAUX FINISHING FOR THE HOME**

### **0 Units - 3 hours lab**

In this course adult students learn skills in faux finishing techniques and mural painting. Students will create sample boards of techniques demonstrated by the instructor. Students will learn how to simulate wood, marble, stone, brick and fabric using a variety of paint techniques. Skills learned in this class are applicable to both theatrical and interior design practice. This is an open-entry/open-exit course. *R-E-99*

# **Engineering**



## **ENGR 7 INTRODUCTION TO ENGINEERING METHODS**

**4 Units - 3 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: DMP 220*

This course provides practical experience for students majoring in engineering and applied sciences. It focuses on modeling and designing with a physical element such as a robot or quad-copter. Students will develop skills such as analyzing physical structures, manufacturing small components, testing, team building, planning, scheduling, management, and implementation of a final design. Projects may include data collection, design reviews, analysis, report writing, group construction projects, and participation in competitions based on related criteria. *NR*

## **ENGR 20 INTRODUCTION TO PROGRAMMING AND PROBLEM SOLVING WITH MATLAB**

**3 Units - 3 hours lecture, 1 hour lab**

*Transfers: CSU, UC*

*Prerequisite: MATH 2*

*Recommended Preparation: CS 1*

This course provides an introduction to computer programming within the numerical computing environment of MATLAB/Simulink. It provides students with a working knowledge of computer-based problem-solving methods relevant to science and engineering. It introduces the fundamentals of procedural and object-oriented programming with MATLAB/Simulink program to formulate, solve, and verify solutions to engineering, math and physics problems. *NR*

## **ENGR 21 INTRODUCTION TO ENGINEERING AND TECHNOLOGY**

**1 Unit - 1 hour lecture**

*Transfers: CSU, UC*

This course provides an overview of occupations in engineering and related technologies. It is designed to familiarize students with the educational requirements for and opportunities for employment as a scientist, engineer, or technologist, as well as the nature and responsibilities of such work. *NR*

## **ENGR 23 ENGINEERING GRAPHICS AND DESCRIPTIVE GEOMETRY**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

This course introduces the principles of graphic modeling and problem solving with the support of 3D computer-aided design. Students solve common math and engineering problems with the assistance of 3D CAD models. Typical assignments involve generating standard orthographic views, building 2D and 3D civil engineering models, finding intersections and angles created by multiple lines and surfaces, constructing developments, and performing vector computations. *NR*

## **ENGR 30 STATICS OF RIGID BODIES AND STRUCTURES**

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Prerequisite: PHYS 4A*

*Recommended Preparation: MATH 4A, MATH 26*

This course covers major topics in statics such as addition and resolution of forces, and developing equivalent systems of forces. It includes analysis and calculations related to concentrated and distributed forces, centroids, and rigid-body equilibrium analysis under forces. The course also includes calculations related to one-dimensional cables and bars under axial loads. It covers topics of statical determinacy, stress, strain, and elastic behavior, and numerical analysis of statically determinate and indeterminate trusses. *NR*

## **ENGR 54 PRINCIPLES OF MATERIALS SCIENCE AND ENGINEERING**

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Prerequisite: CHEM 1A, PHYS 4A*

This course covers major topics related to engineering design, manufacturing, and the properties of materials used in modern component construction. Students will learn to implement design methods required to efficiently use manufacturing methods such as machining, forming, and molding. In addition, case studies of parts and assemblies which incorporate various metals, ceramics, polymers, semiconductors, composites, and superconductors, will be used for comparing product lines which may or may not minimize costs, optimize functionality, and reduce manufacturing time. Atomic structure, bonding, defects, phase equilibria, mechanical properties, electrical properties, and optical properties are key elements which are studied in detail to provide a firm support for student assumptions during analysis. *NR*

**ENGR 70 INTRODUCTION TO NETWORK ANALYSIS****3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Prerequisite: MATH 3B, PHYS 4B*

This course provides instruction in the modeling and analysis of electrical networks. Introduction to basic network theorems, sinusoidal steady state, transient analysis of RLC (Resistor, Inductor, Capacitor) networks, impedance concept, and solving network circuit problems. *NR*

**ENGR 80 ENGINEERING DYNAMICS****3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Prerequisite: PHYS 4A*

*Recommended Preparation: MATH 4A*

This course is an introduction to the kinetics and dynamics of particles and rigid bodies. The topics covered include the Newton-Euler principles, work and energy relationships, and impulse and momentum methods to ascertain the dynamics of particles and rigid bodies. *NR*

**ENGR 83 COMPUTER-AIDED DESIGN TECHNIQUES****3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: DR 50*

This intermediate-level course presents the latest techniques in parametric 3D computer-aided design and analysis. Students integrate design criteria such as materials of construction, manufacturing processes, cost constraints, aesthetics, and failure assessment to generate and refine industry-standard mechanical components. *NR*

**ENGR 91 INTRODUCTION TO THERMODYNAMICS****3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Prerequisite: PHYS 4C*

This course covers major topics related to thermodynamic systems. Students will learn to identify the control mass and control volume in thermodynamic problems, calculate properties of pure substances, map and analyze processes on Temperature-Volume, Pressure-Volume, and Temperature-Entropy diagrams, apply the first and second laws of thermodynamics to control mass and control volume processes, and use the Carnot thermodynamic cycle to calculate the limits of the thermal efficiency. *NR*

**ENGR 100 RESEARCH TOPICS IN ENGINEERING AND APPLIED SCIENCES****2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU*

This course provides practical experience for students majoring in engineering and applied sciences. It focuses on management of all types of engineering projects from visualization, planning, scheduling, management, and implementation. Projects may include data collection, analysis, report writing, and construction management. *R-I-3*

## **ENGR 125 3D CIVIL COMPUTER-AIDED DESIGN**

**3 Units - 2 hours lecture, 3 hours lab**

*Transfers: CSU*

*Recommended Preparation: ENGR 23, GEOG 1, and GEOG 1L are strongly recommended*

This is an advanced computer aided design course which demonstrates modern three dimensional terrain modeling techniques as well as digital civil design concepts. In addition to learning how to collect, refine, and model topographical data points in modern parametric CAD systems, students will generate detailed drawing sets, cost and feasibility studies of detailed projects, and industry standard presentations. Recent advances in base mapping, GPS, GIS, earthwork management, and watershed analysis are central to laboratory assignments. Student require a solid knowledge of two and three dimensional CAD modeling and civil engineering standards related to site planning, codes, and topography. *NR*

## **English as a Second Language**

### **ESL 201 ACADEMIC WRITING III FOR MULTILINGUAL WRITERS**

**5 Units - 5 hours lecture**

*Prerequisite: ESL 301*

*Corequisite: ESL 201L*

This is the third and final semester of the academic writing sequence designed for non-native English writers who need to gain proficiency in Academic English. Students write essays in response to assigned readings from a range of college-level texts. The course covers how to state and develop a central idea of an essay, organize paragraphs into logical sequence, and integrate the ideas of others into a paper that expresses the writer's own analysis as developed through multiple drafts. The course also introduces students to critical reading and writing to promote the study of language conventions used to construct academic writing. ESL 201 is equivalent to WR 201 and WR 399; credit will be given in one area, but not all. Successful completion allows students to enroll in WR 1. *NR*

### **ESL 201L ACADEMIC WRITING III LEARNING CENTER**

**0.5 Unit - 1.5 hours learning center 1.5 hours learning center**

*Corequisite: ESL 201*

This pass/no-pass course offers supplemental language learning assistance for students concurrently enrolled in ESL 201. Students must complete 24 hours in the learning center during the semester in order to receive credit. *R-E-3*

### **ESL 301 ACADEMIC WRITING II FOR MULTILINGUAL WRITERS**

**5 Units - 5 hours lecture**

*Prerequisite: ESL 370*

*Corequisite: ESL 301L*

This is the second semester of the academic writing sequence designed for non-native English writers who need to gain a greater understanding of Academic English. Students write essays in response to assigned readings of college-level texts. The course covers how to develop a thesis statement, how to control the structure of an academic essay, and how to develop details of support through multiple drafts. It focuses on refining academic reading, writing, language, and critical thinking skills with an emphasis on the academic essay. Successful completion allows students to enroll in ESL 201. *NR*

### **ESL 301L ACADEMIC WRITING II LEARNING CENTER**

**0.5 Unit - 1.5 hours learning center 1.5 hours learning center**

*Corequisite: ESL 301*

This pass/no-pass course offers supplemental language learning assistance for students concurrently enrolled in ESL 301.

Students must complete 24 hours in the learning center during the semester in order to receive credit. *R-E-3*

**ESL 340A BEGINNING SKILLS IA****5 Units - 5 hours lecture**

Beginning Skills IA is the first semester of an introduction to the English sequence of core courses for non-native speakers. This initial core course includes basic skill development in listening, speaking, reading and writing. Emphasis is on acquiring basic grammatical structures, reading and vocabulary. *NR*

**ESL 340B BEGINNING SKILLS IB****5 Units - 5 hours lecture**

*Prerequisite: ESL 340A*

Beginning Skills IB is the second semester of an introduction to English sequence for non-native speakers. The core course includes basic skill development in listening, speaking, reading and writing. Emphasis is on further developing introductory survival skills. *NR*

**ESL 340X BEGINNING SKILLS I X****0 Units - 5 hours lecture**

*Prerequisite: ESL 340B*

This zero-unit, open-entry/open-exit course allows the student who has successfully completed ESL 340B to continue developing fundamental skills in listening, speaking, reading, and writing before advancing to ESL 341A. *R-E-99*

**ESL 341A BEGINNING SKILLS II A****5 Units - 5 hours lecture**

*Prerequisite: ESL 340B or AESL 502*

Beginning Skills II A is the first semester in a two course sequence of core courses at the high beginning level for non-native speakers of English. This integrated course continues to develop fundamental skills in listening, speaking, reading and writing, with an emphasis on acquiring basic grammatical structures, reading and vocabulary. *NR*

**ESL 341B BEGINNING SKILLS II B****5 Units - 5 hours lecture**

*Prerequisite: ESL 341A*

Beginning Skills II B is the second semester in a two course sequence of core courses at the high beginning level for non-native speakers of English. This integrated course further develops basic skills in listening, speaking, reading and writing, with an emphasis on acquiring basic grammatical structures, reading and vocabulary. *NR*

**ESL 341X BEGINNING SKILLS II X****0 Units - 5 hours lecture**

*Prerequisite: ESL 341B*

This zero-unit, open-entry/open-exit course allows the student who has successfully completed ESL 341B to continue acquiring basic grammatical structures and vocabulary. *R-E-99*

**ESL 342 BEGINNING CONVERSATION**

**3 Units - 3 hours lecture**

*Recommended Preparation: ESL assessment*

The course is designed to increase the student's basic ability to understand spoken English and use English in conversation. Students practice dialogues for a variety of common situations-e.g., phone calling, shopping, asking directions-in order to build active listening and speaking skills. Fall semester only. *NR*

**ESL 343 BEGINNING PRONUNCIATION****3 Units - 3 hours lecture**

*Recommended Preparation: ESL assessment*

The course is designed to help beginning students improve their pronunciation skills. Students gain self-confidence in speaking through intensive pronunciation drills, short readings, dramatizations, and role-playing, and in free conversation designed to elicit pronunciation objectives. Fall semester only. *NR*

**ESL 352 BEGINNING CONVERSATION****3 Units - 3 hours lecture**

The course is designed to increase the student's basic ability to understand spoken English and use English in conversation. Emphasis is on communicating orally in a variety of situations and on recognizing and integrating grammatical structures in dialogues and conversations. Spring semester only. *NR*

**ESL 353 BEGINNING PRONUNCIATION****3 Units - 3 hours lecture**

The course is designed to help beginning ESL students improve their pronunciation skills. The course will help students recognize and use the sounds, rhythms, stresses, and intonation patterns of American English. Spring semester only. *NR*

**ESL 360A INTERMEDIATE SKILLS I A****5 Units - 5 hours lecture**

*Prerequisite: ESL 341B or AESL 503*

This is the first semester in a two course sequence at the low intermediate level for non-native speakers of English. This integrated course is designed to further develop language skills including reading, writing, listening and speaking. Topics include grammatical structures, vocabulary, oral production and aural comprehension within the context of readings and discussions about social, cultural and academic topics. *NR*

**ESL 360B INTERMEDIATE SKILLS I B****5 Units - 5 hours lecture**

*Prerequisite: ESL 360A or ESL assessment*

This is the second semester in a two course sequence at the low intermediate level for non-native speakers of English. The course is designed to further develop language skills including reading, writing, listening and speaking. Topics include grammatical structures, vocabulary, oral production and aural comprehension within the context of readings and discussions about social, cultural and academic topics. *NR*

**ESL 360X INTERMEDIATE SKILLS I X****0 Units - 5 hours lecture**

*Prerequisite: ESL 360B*

This zero-unit, open-entry/open-exit course allows the student who has successfully completed ESL 360B to continue to refine reading, writing, speaking, and listening skills, particularly in the context of reflections on social, cultural, and current events. *R-E-99*

## **ESL 361A INTERMEDIATE SKILLS II A**

### **5 Units - 5 hours lecture**

*Prerequisite: ESL 360B or AESL 504*

This is the first semester in a two course sequence at the high intermediate level for non-native speakers of English. The course is designed to refine language skills including reading, writing, listening and speaking. Topics include grammatical structures, vocabulary, oral production and aural comprehension, along with an introduction to academic reading and writing skills, preparing students for advanced level classes. *NR*

## **ESL 361B INTERMEDIATE SKILLS II B**

### **5 Units - 5 hours lecture**

*Prerequisite: ESL 361A or ESL assessment*

This is the second semester in a two course sequence at the high-intermediate level for non-native speakers of English. The course is designed to further refine language skills including reading, writing, listening and speaking. Topics include grammatical structures, vocabulary, oral production and aural comprehension, along with an introduction to academic reading and writing skills, preparing students for advanced level classes. *NR*

## **ESL 361X INTERMEDIATE SKILLS II X**

### **0 Units - 5 hours lecture**

*Prerequisite: ESL 361B*

This zero-unit, open-entry/open-exit course allows the student who has successfully completed ESL 361B to further refine reading, writing, speaking, and listening skills, including grammatical structures and vocabulary appropriate to social, cultural, and current events. *R-E-99*

## **ESL 362 INTERMEDIATE CONVERSATION**

### **3 Units - 3 hours lecture**

*Recommended Preparation: ESL assessment*

The course is designed to develop the student's ability to comprehend spoken English and improve fluency in conversation at the intermediate level. Emphasis is on oral communication through the practice of situational dialogues, role-playing, and skits. Fall semester only. *NR*

## **ESL 363 INTERMEDIATE PRONUNCIATION**

### **3 Units - 3 hours lecture**

*Recommended Preparation: ESL assessment*

The course is designed to help intermediate level students recognize and produce the sounds, rhythms, stresses, and intonation patterns of American English. Students develop ability in all speaking situations through intensive training in oral readings in English, more advanced pronunciation practice, in-class conversations, dialogues, dramatizations, and other listening and speaking situations. Fall semester only. *NR*

## **ESL 364 IDIOMS IN AMERICAN ENGLISH**

### **3 Units - 3 hours lecture**

*Recommended Preparation: ESL assessment*

This course is designed to help non-native speakers understand and use - in both speech and writing - the most common and helpful English idioms. The course will introduce two-word verbs, phrasal verbs, prepositional verbs, and idiomatic expressions focused on the topics of achieving success, argument and problem solving. Fall semester only. *NR*

## **ESL 370 ACADEMIC WRITING I FOR MULTILINGUAL WRITERS**

**5 Units - 5 hours lecture**

*Prerequisite: ESL 361B*

This is the first semester of the academic writing sequence designed for non-native English writers who need to be introduced to the demands of Academic English. Students will write paragraphs and essays as they respond to text based prompts. The course covers refining the academic paragraph, and structuring the academic essay. The course focuses on developing academic reading, writing, language, and critical thinking skills. ESL 370 was formerly offered as ESL 380A and 380B; credit will be given for one but not all. Successful completion allows students to enroll in ESL 301. *NR*

**ESL 372 INTERMEDIATE CONVERSATION****3 Units - 3 hours lecture**

The course is designed to increase the student's ability to comprehend native spoken English and increase fluency in conversation. Emphasis is on oral communication through the practice of situational dialogues, role-playing, and skits. Reading and writing are used to enhance opportunities for a student to acquire and use new structures and vocabulary. Spring semester only. *NR*

**ESL 373 INTERMEDIATE PRONUNCIATION****3 Units - 3 hours lecture**

The course is designed to help intermediate level students recognize and produce the sounds, rhythms, stresses, and intonation patterns of American English. Students gain self-confidence in speaking through intensive pronunciation drills, short readings, dramatizations, and role-playing, and in free conversation designed to elicit pronunciation objectives. Spring semester only. *NR*

**ESL 374 IDIOMS IN AMERICAN ENGLISH****3 Units - 3 hours lecture**

*Recommended Preparation: ESL assessment*

This course is designed to help non-native speakers understand and use - in both speech and writing - the most common and helpful English idioms. The course will introduce two-word verbs, phrasal verbs, prepositional verbs, and idiomatic expressions focused on the topics of negotiation, academics, money, and leisure. Spring semester only. *NR*

**ESL 382 ADVANCED CONVERSATION****3 Units - 3 hours lecture**

*Recommended Preparation: ESL assessment*

This course is designed to develop oral academic skills and improve a student's ability to communicate in expected and unexpected situations. Emphasis is on self-expression in problem-solving tasks and oral presentations. Upon successful completion of the course, students should demonstrate an increased accuracy in fluency, expression, and aural comprehension. Fall semester only. *NR*

**ESL 383 ADVANCED PRONUNCIATION****3 Units - 3 hours lecture**

*Recommended Preparation: ESL assessment*

This course is designed to help advanced ESL students improve their listening and self-monitoring skills in daily speech and build their pronunciation awareness. The course provides extensive practice with all aspects of pronunciation. Fall semester only. *NR*

**ESL 384 ADVANCED VOCABULARY SKILLS****3 Units - 3 hours lecture**

*Recommended Preparation: ESL assessment*

This course is designed to develop college-level vocabulary. Topics include etymology, academic terminology, idiomatic expressions, and language appropriate to social, cultural and current events. Fall semester only. *NR*

## **ESL 385 ACADEMIC READING**

### **3 Units - 3 hours lecture**

*Recommended Preparation: ESL assessment*

The course introduces non-native English students to reading strategies that students may apply to textbooks and other academic prose. Students focus on building background information in content areas in a variety of disciplines. Fall semester only. *NR*

## **ESL 386 LISTENING SKILLS AND NOTE-TAKING**

### **3 Units - 3 hours lecture**

*Recommended Preparation: ESL assessment*

This is an advanced listening skills and note-taking course for the English as a Second Language student concurrently enrolled in or preparing for college-level courses. The course focuses on the techniques necessary for class participation, note taking of lectures and written material, outlining, comprehending spoken information, questioning and paraphrasing. *NR*

## **ESL 387 ADVANCED GRAMMAR REVIEW**

### **3 Units - 3 hours lecture**

*Recommended Preparation: ESL assessment*

The course is designed for those who are at least at the upper intermediate level of the English as a Second Language program or the equivalent, or who are entering college-level courses. The course focuses on a review of grammatical structures, particularly the construction of complex clauses and sentences. Fall semester only. *NR*

## **ESL 388 ADVANCED GRAMMAR AND WRITING**

### **3 Units - 3 hours lecture**

*Recommended Preparation: ESL 361B*

This course focuses on grammatical structures particularly difficult for advanced non-native speakers of English, and on writing grammatically correct academic prose. Fall semester only. *NR*

## **ESL 389 ESL LANGUAGE CONFERENCE**

### **0.5 Unit - 1.5 hours learning center**

*Corequisite: ESL 340A, ESL 340B, ESL 341A, ESL 341B, ESL 342, ESL 352, ESL 360A, ESL 360B, ESL 361A, ESL 361B, ESL 362, ESL 363, ESL 370, ESL 372, ESL 373, ESL 382, ESL 383, ESL 388, ESL 392, ESL 393, ESL 398*

This open-entry/open-exit, pass/no-pass course offers conference instruction with ESL language instructors for students enrolled in specified corequisite courses. The course focus is on exercises and assignments to improve students' speaking, listening, reading, writing, and grammar skills in English. Students must complete at least 24 hours in the Languages Center to receive credit. *R-E-3*

## **ESL 390 LANGUAGE THROUGH LITERATURE**

### **4 Units - 4 hours lecture**

*Recommended Preparation: ESL assessment*

This course focuses on developing literary and cultural understanding of fiction, drama, and poetry, and on increasing knowledge of the English language in all areas: reading, writing, vocabulary, and oral/aural skills. Fall semester only. *NR*

## **ESL 392 ADVANCED CONVERSATION**



**3 Units - 3 hours lecture**

This course is designed to improve a students' oral academic skills and their ability to communicate in expected and unexpected situations. Emphasis is on defense of decisions, attitudes and values; and succinct expression of oneself in varying environments. Upon successful completion of the course, students should demonstrate increased accuracy in fluency, expression, and aural comprehension. Spring semester only. *NR*

**ESL 393 ADVANCED PRONUNCIATION****3 Units - 3 hours lecture**

This course is designed to help students refine their listening and self-monitoring skills in daily speech and academic situations. Students work further on the sounds, rhythm, stress and intonation patterns of American English through intensive pronunciation drills, short readings, dramatizations, role-playing exercises, and free conversations designed to elicit pronunciation objectives. Spring semester only. *NR*

**ESL 394 ADVANCED VOCABULARY SKILLS****3 Units - 3 hours lecture**

This course is designed to enhance college-level vocabulary. Topics include academic word lists; discipline specific terminology and expressions; and general academic language. Spring semester only. *NR*

**ESL 395 ACADEMIC READING****3 Units - 3 hours lecture**

This course will introduce students to strategies employed in academic reading with a focus on language development. Spring semester only. *NR*

**ESL 397 ADVANCED GRAMMAR REVIEW****3 Units - 3 hours lecture**

It is designed for students who have completed the intermediate sequence of the English as a Second Language program or the equivalent, or who are entering college-level courses. The course focuses on a review of grammatical structures, particularly verb tenses, verb moods, and word forms. Spring semester only. *NR*

**ESL 398 ADVANCED GRAMMAR AND WRITING****3 Units - 3 hours lecture**

Recommended Preparation: ESL 361B

This course focuses on complex grammatical structures particularly difficult for non-native writers of English. Spring semester only. *NR*

**ESL 399 LANGUAGE THROUGH LITERATURE****4 Units - 4 hours lecture**

This course focuses on increasing the English proficiency of reading, writing, vocabulary, and oral skills as advanced ESL students read and analyze works of fiction, drama, and poetry. Emphasis is on active student participation in a wide variety of both oral and written activities. Spring semester only. *NR*

## **English: Special Services**

**ESS 310 BASIC GRAMMAR AND PARAGRAPHING SKILLS**

**3 Units - 3 hours lecture**

*Limitation: Placement in this course is based on learning disability assessment, eligibility, and an individual education plan.*

Although this course is open to anyone, it is designed for students with learning disabilities who need assistance developing single paragraphs. Students practice writing paragraphs utilizing topic sentences, organizational patterns, supporting details, and transitions in order to achieve paragraph unity, coherence, cohesion, and development. Focus is on writing as a process, and on writing grammatically correct and structurally varied sentences. *NR*

**ESS 315 LEARNING DEVELOPMENT PRACTICUM****0.5 Unit - 2 hours lab**

*Corequisite: ESS 310, ESS 340, ESS 345 or MSS 325*

*Limitation: Placement in this course is based on learning disability assessment, eligibility, and an individual education plan.*

This course is intended for students with learning disabilities who need help achieving proficiency in basic reading, writing, spelling and/or math skills. These skills are enhanced by enrolling in one or more of the corequisite courses. This course is offered on a pass/no-pass basis only. *NR*

**ESS 340 WORD ANALYSIS TECHNIQUES****2 Units - 2 hours lecture**

*Limitation: Placement in this course is based on learning disability assessment, eligibility, and an individual education plan.*

Although this course is open to anyone, it is designed for students with learning disabilities who need prescriptive instruction in phonics, syllabication, spelling rules, word parts, and memory aids for words that do not lend themselves to usual spelling patterns. This course presents the basic rules of spelling using a variety of learning strategies and modalities. *NR*

**ESS 345 BASIC READING AND VOCABULARY DEVELOPMENT****3 Units - 3 hours lecture**

*Limitation: Placement in this course is based on learning disability assessment, eligibility, and an individual education plan.*

Although this course is open to anyone, it is intended for students with learning disabilities. The course presents strategies for improving reading comprehension, vocabulary and study skills. Students use software applications designed to strengthen reading ability and vocabulary development. *NR*

# Entrepreneurship

**ENTR 117 SOCIAL MEDIA MARKETING****3 Units - 3 hours lecture**

*Transfers: CSU*

This course introduces social media tools used for marketing in business. Topics include uses, ethics, and guidelines for social networking, and online marketing channels. Students create a social media marketing campaign through the use of Web applications, such as Facebook, LinkedIn, and Twitter. ENTR 117 is also listed as CIM 117; credit will be given in either area, not both *NR*

**ENTR 160 ENTREPRENEURSHIP: MANAGING YOUR BUSINESS****3 Units - 3 hours lecture**

*Transfers: CSU*

This course introduces key elements of entrepreneurship and small business development. It focuses on the phases and process of building a viable business plan and putting the plan to work. Topics of exploration include building a marketing plan and financial plan, conducting feasibility studies, the nature of competition and markets, and the global aspects of entrepreneurship.

The course provides students with a foundation for understanding the role of small business within society. It also provides preparation for individuals seeking to engage in entrepreneurial ventures. *NR*

## **ENTR 200 PATHWAYS TO SUCCESS**

### **1 Unit - 1 hour lecture**

This interactive course enables students to engage in the fundamental aspects of creatively developing frameworks of passion and purpose as a means of personal empowerment and wealth. The course promotes entrepreneurial thinking across disciplines and assists students in developing a process for transforming ideas into sustainable success. Students will examine how others overcame adversity and achieved success. The course includes individualized learning assessments designed to assist the student in exploring their frameworks of thought and entrepreneurial potential. *NR*

## **ENTR 201 CREATIVITY AND IDEA GENERATION**

### **1 Unit - 1 hour lecture**

This course helps students discover that creativity is a process that can be learned. The relationship between imagination, creativity, and innovation will be examined and students will explore the use of creativity tools and processes to develop solutions for business problems. During the course, students will learn how to use questions to spark creativity. *NR*

## **ENTR 202 INNOVATIONS AND OPPORTUNITIES**

### **2 Units - 2 hours lecture**

This cross-disciplinary course helps students develop mental frameworks that enable them to link invention and insight as means to create social and economic value. Students will explore the creative process, the link between strategy and innovation, the development of an innovation infrastructure, and ways to measure the innovation process. This course prepares students to contribute in unique and productive ways to today's entrepreneurial and organizational demands. *NR*

## **ENTR 211 BUSINESS MODELS: THE DESIGN AND DELIVERY OF VALUE**

### **2 Units - 2 hours lecture**

Successful entrepreneurs are able to describe how their organization creates, delivers, and captures value. This cross-disciplinary course helps students understand business model generation by examining customer segments, profitability and the process of identifying business goals, developing strategic objectives, critical success factors, and key performance indicators for entrepreneurial endeavors. Students will learn how to filter business opportunities, project whether business opportunities can be scalable, identify and validate potential markets, and estimate profitability. *NR*

## **ENTR 212 MARKET VALIDATION AND RESEARCH**

### **1 Unit - 1 hour lecture**

This course explores a variety of resources, tools, and techniques for collecting and analyzing market research data. It engages students in the process of assessing target markets, implementing a market validation strategy, and interpreting primary and secondary research to create effective plans and forecasts. The course illustrates how targeting the market can reduce marketing costs and increase effectiveness. It also discusses common marketing mistakes and the limits of market research. *NR*

## **ENTR 220 BUSINESS START-UP DESIGN-LEGAL, OPERATIONS AND PEOPLE**

### **2 Units - 2 hours lecture**

This course examines legal and operational elements of business start-up and structure. The course will help entrepreneurs recognize legal, start-up, human resource, and operational issues before they become problems. The course does not replace the need for competent legal advice but endeavors to help entrepreneurs seek and select legal resources in an informed and economical manner. *NR*

## **ENTR 221 MONEY, ACCOUNTING AND FINANCE FOR ENTREPRENEURS**

### **2 Units - 2 hours lecture**

This course examines tools and practices necessary for entrepreneurs to access financing, manage cash flow, and measure financial performance. The course will help entrepreneurs to meet financial record-keeping requirements, identify areas of improvement, and determine actions needed to improve performance. Topics include entrepreneurial finance, assessing venture value, financial scorecard, financial dashboard, record-keeping, and cash management. *NR*

## **ENTR 222 BUSINESS STRUCTURE AND LEGAL REQUIREMENTS**

### **1 Unit - 1 hour lecture**

This course examines the primary forms of business structure, i.e. sole proprietorship, partnership, and corporation, and legal elements needed to comply with regulations and guidelines of various governmental agencies. The course will help entrepreneurs recognize legal issues before they become legal problems, and manage and grow businesses more effectively within the law. The course does not replace the need for competent legal advice but endeavors to help entrepreneurs seek and select legal resources in an informed and economical manner. *NR*

## **ENTR 223 BUILDING THE ENTREPRENEURIAL TEAM**

### **2 Units - 2 hours lecture**

This course is designed to help build successful teams and personal partnerships with coaches, mentors and advisors who can help them to make the most of their own potential and to develop their business ideas. Students will consider how managing human resources can create a competitive advantage. *NR*

## **ENTR 224 OPERATIONS MANAGEMENT FOR ENTREPRENEURS**

### **1 Unit - 1 hour lecture**

In this interactive course, students will investigate differences between the entrepreneurial environment and the operations environment. Students will examine the readiness of entrepreneurs for managing operations, the skill sets and management competencies, necessary to produce goods and services effectively and efficiently. Topics examined will include, business location, facility design, supply chain management, measures of operational excellence, use of technology, and areas of potential cost savings. *NR*

## **ENTR 241 THE SUCCESSFUL BUSINESS PLAN**

### **2 Units - 2 hours lecture**

This course provides a systematic process for developing a business plan. The instructor and a network of like-minded students will help those thinking about starting a business to establish a clear roadmap for clarifying a vision for the business and the strategic, tactical, and operational plans needed to move ideas to action. Students further along in the planning and research process will work through the major components of writing a business plan and emerge with a completed draft of a business plan. *NR*

## **ENTR 242 PERSUASIVE PRESENTATIONS**

### **2 Units - 2 hours lecture**

This course provides students with the opportunity to collaborate and use business plans as the foundation for crafting the story of their business that will engage others to be a part of that story. Entrepreneurs will have the opportunity to create powerful sales tools using technology to create presentations using videos, animation, visuals, and simulations. *NR*

# **Environmental Science**

## **ENV 1 INTRODUCTION TO ENVIRONMENTAL STUDIES**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This introductory course emphasizes an interdisciplinary approach to environmental studies. It includes topics in biology, ecology, chemistry, geology, economics, health, and politics. Emphasis is on current environmental problems, their impacts, and solutions. *NR*

## **ENV 6 ENVIRONMENTAL AND RESOURCE ECONOMICS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Recommended Preparation: WR 1 and MATH 253*

This introductory environmental and resource economics course focuses on resource, agricultural, and environmental issues and related policy analysis. The course applies microeconomic principles, models and analytical tools to problems of natural resource use and environmental quality caused by human populations. Students examine and evaluate policies to remedy the market failure of inefficient resource use and environmental degradation, both nationally and internationally. ENV 6 is also listed as ECON 6; credit will be given in either area, not both. *NR*

## **French**

### **FR 1 BEGINNING FRENCH I**

#### **5 Units - 5 hours lecture**

*Transfers: CSU, UC*

This course is designed to develop the fundamentals of communicating in French, including basic conversation, listening comprehension and reading. The emphasis is on speaking and comprehending native spoken French. The course introduces basic writing skills and also presents general aspects of French and Francophone life and culture. FR 1 is equivalent to two years of high school French. Credit may be earned in either FR 1 or 1H, but not both. *NR*

### **FR 1H BEGINNING FRENCH I HONORS**

#### **5 Units - 5 hours lecture**

*Transfers: CSU, UC*

This honors course is designed to develop the fundamentals of communicating in French, including basic conversation, listening comprehension and reading. The emphasis is on speaking and comprehending native spoken French. The course introduces basic writing skills and presents general aspects of French and Francophone life and culture. This honors course will be enriched through limited class size, more extensive development of speaking, listening and comprehension skills, more extensive exposure to French and Francophone culture and additional assignments beyond the regular FR 1. Students will be assigned a collaborative project, expanded reading and a research project that requires critical thinking. FR 1H is equivalent to two years of high school French. Credit may be earned in either FR 1 or 1H, but not both. *NR*

### **FR 2 BEGINNING FRENCH II**

#### **5 Units - 5 hours lecture**

*Transfers: CSU, UC*

*Prerequisite: FR 1 or two years of high school French*

This course continues the development of the fundamental skills acquired in French 1, with increased emphasis on speaking, listening, reading, and writing. The course introduces students to elements of French and Francophone life and culture. *NR*

### **FR 3 INTERMEDIATE FRENCH**

**5 Units - 5 hours lecture**

*Transfers: CSU, UC*

*Prerequisite: FR 2 or three years of high school French*

This course is designed to build upon the fundamental language abilities acquired in FR 1 and 2. Emphasis is on developing more advanced skills in speaking, listening, reading, and writing. Students are further introduced to cultural topics related to France and other French-speaking countries. *NR*

**FR 4 INTERMEDIATE FRENCH****5 Units - 5 hours lecture**

*Transfers: CSU, UC*

*Prerequisite: FR 3 or four years of high school French*

This course concentrates on developing an intermediate level of fluency, strengthening the skills needed to read, write, and communicate in French. Emphasis is placed on French literature and film and on writing analytical compositions based on readings and films. There is further instruction in French history and culture. *NR*

**FR 10 INTERMEDIATE CONVERSATIONAL FRENCH****3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Prerequisite: FR 2 or three years of high school French*

This course is designed to develop fluency in French, with an emphasis on informal expression. Conversations are centered on topics including current events, politics, cinema, cuisine, art, literature, theatre, and other aspects of French and Francophone culture. *NR*

**FR 11 ADVANCED CONVERSATIONAL FRENCH****3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Prerequisite: FR 3 or FR 10*

This course is designed to increase the student's ability to comprehend native spoken French and increase oral fluency. Reading, watching films and oral and written responses enable the student to acquire new vocabulary and structures and examine various aspects of French and Francophone cultures. Field trips may be required. *NR*

**FR 180 FRENCH LANGUAGE CONFERENCE****0.5 Unit - 1.5 hours learning center**

*Transfers: CSU*

*Corequisite: FR 1, FR 1H, FR 2, FR 3, FR 4, FR 10, FR 11*

This open-entry/open-exit, pass/no-pass course offers conference instruction with French language instructors for students enrolled in specified corequisite courses. The course focus is on exercises and assignments to improve students' speaking, listening, reading, writing, and grammar skills in native French. Students must complete at least 24 hours in the Languages Center during the semester and participate in no fewer than four conferences in order to receive credit. *R-E-3*

## **Gender Studies**

**GS 10 INTRODUCTION TO WOMEN, GENDER AND SEXUALITY STUDIES****3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course is an interdisciplinary course that introduces gendered identities as a category of cultural analysis. This course will

offer a survey of theoretical concepts of gender and its intersection with various categories of difference, including sexuality, race, ethnicity, nationality, class, age and ability. The main focus of the course will examine gender within the context of the United States. Students will study the social construction of gender with particular emphasis on social and political activism and resistance and the ways in which social movements have led to societal transformations in both history and contemporary society.  
*NR*

## **GS 20 GENDER AND CONTEMPORARY SOCIETY**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course explores the construction of gender in contemporary culture, media, and social institutions. Students will examine gender in literature, art, music, film, and new media. Additionally, students will study gender in work, family, religion, sports, and social advocacy. Special attention will be paid to issues of intersectionality in contemporary life in terms of race, sexuality, class, age, and ability. *NR*

# **Geography**

## **GEOG 1 PHYSICAL GEOGRAPHY**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Physical Geography is the systematic study of the dynamic physical environment of the earth as the human home. Topics include the sun/earth relationship and energy balance, geospatial techniques, the character of the atmosphere, weather, climate, vegetation, the composition of the earth, plate tectonics, landform development and reduction, water, and the modification and pollution of the earth by humans. C-ID: GEOG 110 . *NR*

## **GEOG 1L PHYSICAL GEOGRAPHY LABORATORY**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

*Prerequisite: Prior completion of or concurrent enrollment in GEOG 1*

Laboratory exercises and experiments designed to explore and understand the primary areas of physical geography. Stresses the scientific method in interpreting Earth-sun relations; time; Earth representation through globes, topographic maps and remote sensing; meteorological tools, models and weather prognostication; climate; natural vegetation; geomorphologic models and processes, and landform interpretation. C-ID: GEOG 111. *NR*

## **GEOG 2 CULTURAL GEOGRAPHY**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course explores the kaleidoscope of human activity which takes place on, and interrelates with, the surface of the earth. Geography, a holistic science, investigates such topics as population growth; economic development; human migration; the variety of agriculture; political organization; cultural and ethnic conflict; the origin and diffusion of language; world religions and their distribution; the history, growth and patterns of settlement; the rise of industrialism; and the result of human activity on the land, water, and atmosphere of the earth. C-ID: GEOG 120. *NR*

## **GEOG 3 WORLD REGIONAL GEOGRAPHY**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

World Regional Geography provides a systematic study of the major geographic regions of the world. Specific countries within

various regions are investigated in terms of their physiographic features, climatic conditions, natural resources, cultural heritage, population characteristics, agricultural practices, transportation systems, economic development, and current geographic issues. Credit may be earned in either GEOG 3 or GEOG 3H, but not both. C-ID: GEOG 125. *NR*

## **GEOG 3H WORLD REGIONAL GEOGRAPHY HONORS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Recommended Preparation: WR 1*

World Regional Geography Honors provides a systematic study of the major geographic regions of the world. Specific countries within various regions are investigated in terms of their physiographic features, climatic conditions, natural resources, cultural heritage, population characteristics, agricultural practices, transportation systems, economic development, and current geographic issues. This honors course will be enriched with limited class size, small group discussions, advanced academic readings, geographic analysis of spatial data, and a capstone research project. Credit may be earned in either GEOG 3 or 3H, but not both. C-ID: GEOG 125. *NR*

## **GEOG 10 INTRODUCTION TO WEATHER AND CLIMATE**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Recommended Preparation: WR 201*

This course is an introduction to Earth's atmosphere and processes. The course investigates local and global surface weather phenomena, the use of instruments to interpret them, and the classification and distribution of world climates. Emphasis is placed on the interrelationships between weather and climate. Topics include atmospheric structure and composition, solar radiation, energy budget, temperature, seasonal changes, atmospheric moisture, clouds and fog, precipitation, circulation systems, air masses and fronts, weather forecasting, climate and climate change. A field trip may be required. Credit may be earned in either GEOG 10 or GEOG 10H, but not both. C-ID: GEOG 130. *NR*

## **GEOG 10H INTRODUCTION TO WEATHER AND CLIMATE HONORS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Recommended Preparation: WR 201*

This honors course is an introduction to Earth's atmosphere and processes. The course investigates local and global surface weather phenomena, the use of instruments to interpret them, and the classification and distribution of world climates. Emphasis is placed on the interrelationships between weather and climate. Topics include atmospheric structure and composition, solar radiation, energy budget, temperature, seasonal changes, atmospheric moisture, clouds and fog, precipitation, circulation systems, air masses and fronts, weather forecasting, climate and climate change. This honors course will be enriched with limited class size, advanced academic readings, analysis of meteorological data, and a capstone research project. A field trip may be required. Credit may be earned in either GEOG 10 or GEOG 10H, but not both. C-ID: GEOG 130. *NR*

## **GEOG 12 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS**

### **2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

This course provides an overview of the tools and techniques of Geographic Information Systems (GIS). The course explores the mapping and spatial analysis capabilities of desktop GIS software (e.g., ArcView, ArcGIS, MapInfo); the management, manipulation and analysis of data; cartographic design and presentation; raster and vector data structures; georeferencing and Global Positioning Systems (GPS); and basic GIS programming. The course discusses how GIS can be applied to various disciplines, including geography, geology, biology, marketing, business and regional planning. GEOG 12 was formerly offered as GEOG 110. C-ID: GEOG 155. *NR*



## **GEOG 20 GLOBAL ENVIRONMENTAL PROBLEMS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Recommended Preparation: WR 1*

This course analyzes society-nature relationships and global environmental problems from a geographical perspective. The focus is on the spatial dimensions of global environmental crises as they relate to social, political, and economic issues. Topics examine the historical evolution of environmental issues including population growth, diseases, agriculture and pesticides, climate change, resource extraction and management, energy, endangered species and appropriate development. *NR*

## **GEOG 38 CALIFORNIA GEOGRAPHY**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course provides a broad overview of the state of California in terms of its physical landscape and cultural environment. The state is divided into specific geographic regions; and those regions are analyzed in terms of their physiography, climate, vegetation, water resources, human history, agriculture, mineral resources, manufacturing, transportation, economic development, urbanization, and geographic problems. Students learn to interpret and construct basic maps, the foundation for spatial analysis. Attendance at field trips may be required. C-ID: GEOG 140. *NR*

## **GEOG 102 GEOGRAPHY FIELD STUDIES: WESTERN UNITED STATES**

### **2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU*

*Limitation: Students must be able to hike cross-country on narrow trails and camp (tents, sleeping bags, cooking, limited showers).*

This lecture and laboratory field course studies the cultural and physical geography in the western United States. Students observe and analyze the effects of weather and climate on natural vegetation; use topographical maps to interpret land use and terrain; explore economic and political systems of the region; and evaluate the interrelationships between the physical and cultural environment. Thematic emphasis will vary depending on location. A required course fee must be paid at or prior to the orientation session. C-ID: GEOG 160. *NR*

# **Geology**

## **GEOL 1 PHYSICAL GEOLOGY**

### **4 Units - 3 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

This course introduces the principles of geology and the methods of studying the Earth. Consideration is given to the materials of the Earth's crust, earthquakes, plate tectonics, the processes of mountain building and volcanism, sculpturing of the Earth's surface, evaluation of natural resources, the implications of geology to society, and aspects of the environment in which our lives are spent. Laboratory exercises include the identification of common rocks and minerals; reading and using topographic maps, aerial photographs, and geologic maps; and constructing topographic profiles and cross-sections to interpret the Earth's surface. Field trips may be required. C-ID: GEOL 101. *NR*

## **GEOL 2 HISTORICAL GEOLOGY**

### **4 Units - 3 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

*Prerequisite: EARTH 20, GEOL 1 or GEOL 23*

This course is an in depth study of the physical and biological aspects of the evolution of the earth; with emphasis on the origin

and evolution of life reflected in the rock record. The history and origin of the earth, continents, oceans and atmosphere are also explored. Methods and concepts utilized in deciphering the geologic record will be emphasized in both lecture and lab. Field trips may be required. C-ID: GEOL 111. *NR*

## **GEOL 3 GEOLOGY OF CALIFORNIA**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course is a study of the geologic development of California, including an exploration of plate tectonic and landform processes responsible for shaping the environment. This course examines theories and processes related to earthquakes, faulting, volcanic activity and geologic time, as well as energy resources significant to California. Field trips may be required. C-ID: GEOL 200. *NR*

## **GEOL 22 EARTH HISTORY**

### **4 Units - 3 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: WR 201, WR 399, or ESL 201

This general education lecture and laboratory science course is a study of the evolution of life on Earth, including the environments where life forms are found in the fossil record. Study includes the origin and formation of rock-forming minerals and the three types of rocks found on Earth. Development of the continents, oceans and atmosphere including ideas related to the origin and evolution of life will be introduced. Field trips may be required to fulfill the objectives of this course. Recommended for non-geology majors. *NR*

## **GEOL 23 NATURAL DISASTERS**

### **4 Units - 3 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

This course discusses the interaction of man and the geologic environment with particular reference to natural disasters that include earthquakes, volcanic eruptions, landslides, hurricanes, tornadoes, floods, wildfires, and climate change. Students learn the principles of sound planning for human use of the planet Earth. Field trips may be required. *NR*

## **GEOL 165 GEOLOGY FIELD STUDIES: YOSEMITE NATIONAL PARK**

### **1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU*

*Limitation: Students must be able to hike and camp (tents, sleeping bags, cooking, limited showers).*

This field study course introduces students to the geology of the Sierra Nevada Mountains with an emphasis on the geologic origin and evolution of Yosemite National Park, California. Introductory lectures complement direct field observations, field data collection, analysis and interpretation. The course is taught in the field. It is intended for both science majors and non-majors. Students in geology, earth science, marine science, biology and geography are encouraged to enroll. Students are limited to taking four field study courses in geological sciences (GEOL 165, 169, 170, 181, or 186) for a maximum of 4 units. *NR*

## **GEOL 167 COOPERATIVE WORK EXPERIENCE: GEOLOGY**

### **1 Unit - 1 hour lab**

*Transfers: CSU*

*Prerequisite: Student must have taken or must be currently taking a college-level course in the natural sciences.*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 or a certificate. *NR*

## **GEOL 167 COOPERATIVE WORK EXPERIENCE: GEOLOGY**

### **2 Units - 2 hours lab**

*Transfers: CSU*

*Prerequisite: Student must have taken or must be currently taking a college-level course in the natural sciences.*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 or a certificate. *NR*

## **GEOL 167 COOPERATIVE WORK EXPERIENCE: GEOLOGY**

### **3 Units - 3 hours lab**

*Transfers: CSU*

*Prerequisite: Student must have taken or must be currently taking a college-level course in the natural sciences.*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 or a certificate. *NR*

## **GEOL 169 GEOLOGY FIELD STUDIES-ZION NATIONAL PARK, UTAH**

### **1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU*

*Limitation: Students must be able to hike and camp (tents, sleeping bags, cooking, limited showers).*

This field study course introduces students to the geology of the Colorado Plateau region with emphasis on the origin and evolution of Zion National Park, Utah. Introductory lectures complement direct field observations, field data collection, analysis and interpretation. The course is taught in the field. It is intended for both science majors and non-majors. Students in geology, earth science, marine science, biology and geography are encouraged to enroll. Students are limited to taking four field study courses in geological sciences (GEOL 165, 169, 170, 181, or 186) for a maximum of 4 units. *NR*

## **GEOL 170 GEOLOGY FIELD STUDIES: NATIONAL PARKS AND MONUMENTS**

### **1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU*

*Limitation: Students must be able to hike and camp (tents, sleeping bags, cooking, limited showers).*

This is a lecture and laboratory field course that studies the origin, geology, and natural history of national parks and monuments of the western United States. Thematic emphasis, course content, and national parks to be visited will vary. Students in the physical and life sciences are encouraged to enroll. Students are limited to taking four field study courses in geological sciences (GEOL 165, 169, 170, 181, or 186) for a maximum of 4 units. *NR*

## **GEOL 181 GEOLOGY FIELD STUDIES: COASTAL AND OFFSHORE GEOLOGY**

### **1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU*

*Limitation: Students must be able to hike and camp (tents, sleeping bags, cooking, limited showers).*

*Recommended Preparation: Introductory college-level geology and/or marine science courses.*

This field study course introduces students to the origin, evolution, and geology of coastal and offshore field areas in the western United States. Introductory lectures complement direct field observations, data collection, analysis and interpretation. Thematic emphasis and course content will vary depending on destination. The course is taught entirely in the field. It is intended for both science majors and non-majors. Students in geology, earth science, marine science, biology, and geography are encouraged to enroll. Students are limited to taking four field study courses in geological sciences (GEOL 165, 169, 170, 181, or 186) for a maximum of 4 units. *NR*

## **GEOL 186 GEOLOGY FIELD STUDIES: GEOLOGY OF CALIFORNIA**

**1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU*

*Limitation: Students must be able to hike, camp (tents, sleeping bags, cooking, limited showers) and live in a group environment.*

This lecture and laboratory field course studies the origin, tectonic development, and present geology of California. Thematic emphasis will vary each time the course is offered depending on destination. Introductory lectures complement direct field observation, field data collection, analysis and interpretation. The course is taught in the field. It is intended for both science majors and non-majors. Students in geology, earth science, marine science, biology and geography courses are encouraged to enroll. Students are limited to taking four field study courses in geological sciences (GEOL 165, 169, 170, 181, or 186) for a maximum of 4 units. *NR*

# **Global Studies**

## **GLBL 1 INTRODUCTION TO GLOBAL STUDIES**

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: WR 201, WR 399, ESL 201

This course offers students an introduction to the interdisciplinary program of global studies. As a foundational course, this course focuses on a series of issues and problems associated with globalization. The course examines the nature and history of globalization, and analyzes economic, political, cultural and ecological dimensions of globalization. For each dimension, focus is on the extent of international conflict and cooperation, and effects of growing interdependence. *NR*

## **GLBL 2 INTRODUCTION TO GLOBAL ISSUES**

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: WR 201, WR 399 or ESL 201

This course introduces students to the social, political, and economic problems that transcend international boundaries in a globalized world. Students will become familiar with the roles and perspectives of individuals, organizations and governments toward global problems and the complex linkages and interdependencies that lead to conflict and cooperation in the international system. *NR*

# **Health**

## **HLTH 1 HEALTH EDUCATION**

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course investigates issues of human health from a holistic perspective, addressing its physiological, emotional, mental,

social, and environmental aspects. General topics of investigation include nutrition, fitness, stress, sexuality, relationships, aging, drug abuse, and personal health care. *NR*

## **HLTH 2 FIRST AID: RESPONDING TO EMERGENCIES**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This lifesaving skill-training course provides students with the practical resources necessary to respond effectively in emergency situations. The course covers accident and injury prevention, emergency medical care, emergency childbirth, first aid for common injuries and for people with special needs, and responding to delayed help (e.g., wilderness) situations. Two American Red Cross first aid certificates (Responding to Emergencies and Community CPR) and an AED (Automatic External Defibrillator) certification will be granted upon successful completion of all course requirements. C-ID: KIN 101. *NR*

## **HLTH 3 WOMEN'S HEALTH ISSUES**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course investigates a variety of topics that concern women's health. These include the effect of lifestyle on health; the role of exercise and nutrition in promoting wellness; risk factors for cardiovascular disease, chronic diseases, and cancer; social influences and work trends that affect women; abusive behaviors, sexual harassment, and substance abuse; sexual and reproductive health; and the aging process. Students analyze theoretical and practical information to make healthy lifestyle choices. *NR*

## **HLTH 107 SURVEY AND ASSESSMENT OF FITNESS**

### **1 Unit - 1 hour lecture**

*Transfers: CSU*

This course uses different testing and assessment techniques to evaluate the physical condition of students, including their muscular strength and endurance, flexibility, body composition, cardiovascular endurance, and skill-related fitness. The course examines personality factors, as well as lifestyle, diet, nutrition and weight management, and their effect on managing stress levels and designing a viable fitness program for life. *NR*

## **HLTH 131 SIMPLE STRATEGIES FOR SUCCESSFUL WEIGHT MANAGEMENT**

### **1.5 Units - 1 hour lecture, 1.5 hours lab**

*Transfers: CSU*

This course is designed to help students manage their weight. The emphasis is on combining good nutrition and regular exercise to meet body weight goals. This comprehensive class includes classroom teaching time as well as workouts at the IVC Fitness Center. Students learn how to choose healthy, balanced meals at home or away; read packaged food labels; avoid the "diet failure mentality"; use exercise equipment properly; and design a safe, individualized exercise program. *NR*

# **History**

## **HIST 1 THE HISTORY OF WORLD CIVILIZATIONS TO 1500**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Recommended Preparation: WR 201, WR 399, or ESL 201*

This course examines the origins, major themes, and principal developments of world civilizations from prehistory to the 16th century. Special emphasis is given to the emergence of complex societies and the rise and development of civilization in the ancient Near East, classical Mediterranean world, Asia, the later Mediterranean world, Africa, Oceania, and the Americas.

Central themes include urbanization and imperial impulses; individual-communal dynamic; emergence of major religious/philosophical traditions; elaboration of value systems and worldviews; science and the diffusion of technologies; human and natural environment interactions; and the historically varied formulations of identity. Credit may be earned in either HIST 1 or 1H, but not both. C-ID: HIST 150. *NR*

## **HIST 1H THE HISTORY OF WORLD CIVILIZATIONS TO 1500 HONORS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Recommended Preparation: WR 201, WR 399, or ESL 201*

This course examines the origins, major themes, and principal developments of world civilizations from prehistory to the 16th century. Emphasis is given to the emergence of complex societies and the rise and development of civilization in the ancient Near East, classical Mediterranean world, Asia, the later Mediterranean world, Africa, Oceania, and the Americas. Central themes include urbanization and imperial impulses; individual-communal dynamic; emergence of major religious/philosophical traditions; elaboration of value systems and worldviews; science and the diffusion of technologies; human and natural environments interactions; historically varied formulations of identity. This course will have a limited class size, and more extensive writing assignments. Credit may be earned in either HIST 1 or 1H, but not both. C-ID: HIST 150. *NR*

## **HIST 2 THE HISTORY OF WORLD CIVILIZATIONS SINCE 1500**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course examines the origins, major themes, and principle developments of world civilizations since the 16th century. Special emphasis is given to interactions among various civilizations in Europe, Asia, Africa, Oceania, and the Americas and their mutual interdependence in the shaping of the modern world. Particular attention will be paid to the analysis of themes like imperialism, colonialism, industrialization, trade, modernization, urbanization and the rise of the nation-state. C-ID: HIST 160. *NR*

## **HIST 10 WESTERN CIVILIZATION: BEGINNINGS TO THE REFORMATION**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Recommended Preparation: WR 201, WR 399, or ESL 201 or eligibility for WR 1*

This course is a survey of the scope, definition and culture of the West in a global context from the rise of Paleolithic and Neolithic societies in Eurasia to the Protestant Reformation in Europe. Emphasis will be on the major developments in the cultural, political, and social history of the ancient Near East, Egypt, Greece, Rome, and Europe from Late Antiquity through the Reformation. C-ID: HIST 170. *NR*

## **HIST 11 THE WEST AND THE WORLD SINCE THE RENAISSANCE**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

The course considers the principal developments of Western civilization within a global context. Students explore the impact of Western themes, institutions, and ideas upon non-Western cultures, as well as the corresponding influence of non-Western cultures upon the "Western heritage." Special emphasis will be given to the emergence of such themes as the nation-state, rationalism and empiricism, industrialization, liberalism, nationalism, socialism, modern imperialism, post-war realignments, and geopolitics. The course traces the development of European culture from the 16th century to the present, and throughout this entire period, its relations and exchanges with non-Western cultures, including China, Japan, Africa, and the Americas. C-ID: HIST 180. *NR*

## **HIST 20 AMERICAN HISTORY THROUGH THE CIVIL WAR**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course is a study of the history of the United States from its colonial origins through the Reconstruction period. The survey will focus on the major themes, ideas, attitudes, institutions, and elements that are part of the American national development through the mid-19th century. Special emphasis is given to the European antecedents; the forging of an American culture within the colonial context; the political, social, and economic development within the framework of a national experience and identity; and the problems of cultural expansion and divergent growth reflected in the Civil War. C-ID: HIST 130. *NR*

## **HIST 21 AMERICAN HISTORY SINCE THE CIVIL WAR**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

History 21 is a study of the history of the United States from the Civil War to the present. The survey will focus on the major themes, ideas, attitudes, institutions, and elements that are part of the American national development from the mid-19th century to the present. Special emphasis will be given to national recovery and the victory of industrialization after the war, domestic reformism from the Populists and the Progressives to the New Deal, international relations from overseas expansion to involvement in world wars, and shifting foreign and domestic patterns from World War II to the present. C-ID: HIST 140. *NR*

## **HIST 24 AMERICA AFTER THE BOMB: 1945 TO THE PRESENT**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

History 24 is a study of the history of the United States from the end of the Second World War to the present. It focuses on the principal political, social, economic, and cultural challenges and achievements in American life since 1945 as reflected in domestic and foreign developments. Special emphasis is given to the use of the atomic bomb at the end of World War II, the Cold War at home and abroad, prosperity and conformity in the 50's, social ferment in the 60's, the Civil Rights movement, the New Left and counterculture, black militancy, domestic upheaval in the 70's, mass dissent and the Vietnam War, political cynicism and Watergate, feminism, ethnic consciousness, realignment in the 80's, detente and the arms race, and geopolitics and the Third World. *NR*

## **HIST 25 HISTORY OF CALIFORNIA**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Students study and analyze California history from its pre-colonial origins through the present. Students survey the contributions of peoples of diverse cultures in the development of California and the ways in which California has and continues to influence the nation and the world. *NR*

## **HIST 30 HISTORY OF ETHNICITY AND CULTURE IN THE UNITED STATES**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

A general survey of selected ethnic groups in American history, including Native Americans, African Americans, European Americans, Asian Americans, and Latinos, as well as the major impacts of immigration from the pre-contact period through the present. *NR*

## **HIST 33 THE HISTORY OF THE MEXICAN AMERICAN PEOPLE**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course examines the principal developments in Chicano history from its Mesoamerican origins to the present. Students explore the indigenous and European influences which have shaped the culture, character, and history of Mexican Americans, and the manner in which the cultural patterns have been retained or redefined by life in the U.S. *NR*

## **HIST 40 THE HISTORY OF EAST ASIA BEFORE 1800**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course provides an overview of the pre-modern histories of China, Japan and Korea, and of their institutional and cultural interaction. Topics include the origins of civil statecraft in China and its impact on Korean and Japan; the development of a distinctive warrior class in Japan; the elaboration of court cultures in the traditional era. Emphasis will be placed on the analysis of the conflicting themes of cultural unity and cultural uniqueness in East Asian civilization, and on the way in which cultural codes from China were transformed when imported to Japan and Korea. *NR*

## **HIST 41 THE HISTORY OF EAST ASIA SINCE 1800**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course examines the major themes in the development of Chinese, Korean, and Japanese societies from the late 18th century to the present. Topics include the growth of the Confucian state in China; the role of 19th century crises and the Communist revolution in transforming the state's goals and capacities; the fragmentation and reorientation of the Chinese elite; peasant rebellion and the revolution of 1949; protest and resistance to traditional and modern regimes; the influence of Western contact on the restructuring of Japan; industrialization; political modernization and imperialism in Japan; the recovery of post-war Japan; and economic dominance in the late 20th century. HIST 41 is also listed as PS 41; credit given in either area, not both. *NR*

## **HIST 51 WOMEN IN AMERICAN HISTORY**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course surveys the history of women in the United States from the pre-contact period to the present, addressing significant events, processes, individuals, and movements that have contributed to the nation's development and women's changing roles. The course investigates the ways in which geographic location, class, ethnicity, race, sexual orientation, urbanization, technology, labor, and notions of family have affected the political, social, economic, intellectual, and sexual lives of American women. Feminisms and the politics of gender are recurrent themes in this historical and cultural analysis. Credit may be earned in HIST 51 and 51H, but not both. *NR*

## **HIST 51H WOMEN IN AMERICAN HISTORY HONORS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course surveys the history of women in the United States from the pre-contact period to the present, addressing significant events, processes, individuals, and movements that have contributed to the nation's development and women's changing roles. The course investigates the ways in which geographic location, class, ethnicity, race, sexual orientation, urbanization, technology, labor, and notions of family have affected the political, social, economic, intellectual, and sexual lives of American women. Feminisms and the politics of gender are recurrent themes in this historical and cultural analysis. The honors course is enriched through seminar style classrooms, additional writing assignments, independent research, and attention to historiography. Credit may be earned in either HIST 51 or 51H, but not both. *NR*

# **Human Development**

## **HD 4 INFANT AND TODDLER DEVELOPMENT**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

A study of infants and toddlers from preconception 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. HD 4 was formerly offered as HD 104. C-ID: CDEV 100. *NR*

## **HD 7 DEVELOPMENTAL PSYCHOLOGY: CHILDHOOD AND ADOLESCENCE**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Recommended Preparation: PSYC 1*

This course presents a study of the physical, cognitive, and psychosocial processes of human development from conception through adolescence. It introduces the theories, research, and applications that constitute the field of child development both typical and atypical, examining both traditional approaches and recent innovations. Topics address the physical, motor, perceptual, cognitive, emotional, and social areas of development. The course discusses issues related to intellectual functioning, learning, personality, social roles and relationships, and adjustment. It meets Title 22 Licensing requirements and California Child Development Permit Requirements. HD 7 is also listed as PSYC 7; credit will be given in either area, not both. C-ID: CDEV 100. *NR*

## **HD 10 INTRODUCTION TO ELEMENTARY TEACHING**

### **3 Units - 2 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

*Recommended Preparation: WR 1*

This course introduces students to the 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. C-ID: EDUC 200. *NR*

## **HD 15 SOCIALIZATION OF THE CHILD - CHILD, FAMILY, COMMUNITY**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

*Recommended Preparation: PSYC 1 or PSYC 1H, SOC 1 or SOC 1H*

This course examines the influence of major socializing agents-family, school, peers, media, and community-on the developing child. The course addresses historical, cultural, and socioeconomic factors that affect a child's socialization, as well as issues confronting children with specialized needs and resources available for interventions. Emphasis is placed on the importance of respectful, reciprocal relationships that support and empower families. This course is of particular interest to students preparing for a career working with children. It also meets Title 22 licensing requirements for childcare providers. HD 15 is also listed as SOC 15; credit will be given in either area, not both. C-ID: CDEV 110. *NR*

## **HD 65 INTRODUCTION TO SCHOOL-AGE CHILD DEVELOPMENT**

### **1 Unit - 1 hour lecture**

*Transfers: CSU, UC*

This course presents a study of the child from age five through twelve within cultural and family contexts. The course examines biosocial (physical), cognitive, and psychosocial development, both typical and atypical. Students are introduced to the theories and practical applications that constitute the field of school-age child development. The course is of particular interest to parents and students preparing for a career in school-age childcare. It meets Title 22 licensing requirements for school-age childcare providers. HD 65 was formerly offered as HD 265. *NR*

## **HD 101 OBSERVATION AND ASSESSMENT OF YOUNG CHILDREN**

**3 Units - 3 hours lecture**

*Transfers: CSU*

*Recommended Preparation: HD 7/PSYC 7 and HD 15/SOC 15*

This course introduces the appropriate use of assessment and observation strategies to document the growth and development of young children. The course focuses on selecting and using information collected as documentation to plan and implement quality programming and meet the individual needs of the child. The course also examines methods of utilizing data about each child to form effective partnerships between families and professionals. The course explores recording strategies including rating scales, portfolios, and use of multiple assessment methods. Meets course requirement for Title 22 Licensing and the California Child Development Permit. C-ID: ECE 200. *NR*

**HD 105 INFANT-TODDLER PROGRAMS****3 Units - 3 hours lecture**

*Transfers: CSU*

*Recommended Preparation: HD 4*

This course explores the caregiving skills necessary in the delivery of high quality programs for infants and toddlers. It focuses on relationships among caregivers, infants and other adults as well as the physical and social environment of the program including health and safety concerns, cultural and gender identity and guidance methods. Additionally this course addresses the development of the caregiver as a professional and as an educator of parents. Completion of the course partially qualifies students to work in a licensed childcare facility. *NR*

**HD 110 PRINCIPLES AND PRACTICES OF TEACHING YOUNG CHILDREN****3 Units - 3 hours lecture**

*Transfers: CSU*

This course introduces the underlying theoretical principles of developmentally appropriate practices as applied to early childhood education programs and environments. The course emphasizes the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting the physical, social, creative, and intellectual development of all children. The course includes a review of the historical roots of early childhood programs and the evolution of professional practices promoting advocacy, ethics, and professional identity, as well as current trends in the field. Students are introduced to different types of early childhood programs, professional opportunities and qualifications, and laws and regulations governing programs. C-ID: ECE 120. *NR*

**HD 115 INTRODUCTION TO CURRICULUM****3 Units - 3 hours lecture**

*Transfers: CSU*

*Recommended Preparation: HD 7/PSYC 7 and HD 15/SOC 15*

This course provides an overview of planning and implementing developmentally appropriate curriculum and play-based environments for young children. The course examines the teacher's role in supporting development and learning, and fostering respect for children of diverse economic backgrounds, cultures, languages, and abilities. Content areas include language and literacy, social and emotional learning, sensory learning, art, creativity, math, science and physical development. Students observe and assess effective strategies for developing curriculum and adapting environments. Meets the course requirement for Title 22 Licensing and the California Child Development Permit. C-ID: ECE 130. *NR*

**HD 120 CHILD GUIDANCE AND DISCIPLINE****3 Units - 3 hours lecture**

*Transfers: CSU*

This course introduces the theories, methods, and application of positive child guidance, discipline, and classroom management. The course is designed for educators, recreation leaders, parents, and others who are learning to interact and communicate with children in group settings. The course emphasizes the process of developing human potential by consciously applying principles of guidance and effective communication with children and adults. Students learn theoretical concepts of guidance and specific

techniques to apply with children in changing their behavior. Meets the course requirements for Title 22 Licensing and the California Child Development Permit. *NR*

## **HD 130 TEACHING IN A DIVERSE SOCIETY**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

*Recommended Preparation: HD 7/PSYC 7 and HD 15/SOC 15*

This course offers a critical examination of societal and personal attitudes, beliefs, values, assumptions, and biases about culture, race, language, identity, family structure, ability, socioeconomic status, and diverse groups affected by systemic oppression. The course is designed to help students recognize and confront barriers that interfere with their ability to work effectively with diverse populations of children and families, and to enhance teachers' skills for educating children in a pluralistic society. Meets the course requirement for Title 22 Licensing and the California Child Development Permit. C-ID: ECE 230. *NR*

## **HD 131 CREATIVE DEVELOPMENT IN YOUNG CHILDREN**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

*Recommended Preparation: HD 7*

This course examines creativity as a critical function in the holistic development of young children. The course focuses on the importance of art, music, movement, imagery, literacy activities, and dramatic play in furthering children's overall development. Students will engage in creative activities, make connections between their experiences and those of children, and apply what they have learning in real-life settings with young children. Completion of the course partially qualifies students to work in a licensed childcare facility. *NR*

## **HD 145 LANGUAGE AND LITERACY FOUNDATIONS**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

*Recommended Preparation: HD 7*

This course looks at the foundations of language and literacy skills in young children. It includes a discussion of national policies and instructional approaches in the language and literacy realm, oral language development, and early writing. Students explore early literacy strategies and best practices for exposing young children to literature. The course presents techniques for assessing and documenting language and literacy development with an eye to adapting instruction for children with special needs. Integrating language and literacy activities with other areas of curriculum, as well as supporting family literacy, is emphasized. This course partially qualifies students to work in a licensed childcare facility. *NR*

## **HD 150 HEALTH, SAFETY AND NUTRITION OF CHILDREN**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

*Recommended Preparation: HD 7, HD 110*

This course presents a study of health practices, methods of implementing a safe environment, and planning and facilitating a sound nutrition program for children. It introduces laws, regulations, standards, policies and procedures, and curriculum related to health, safety, and nutrition. The course identifies key components that ensure physical health, mental health, safety, and adequate nutrition of both children and staff, stressing the importance of collaboration with families and health professionals. The focus is on integrating the concepts into everyday planning and program development for children. Meets course requirement for Title 22 Licensing and the California Child Development Permit. C-ID: ECE 220. *NR*

## **HD 160 ADVANCED CURRICULUM PLANNING**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

*Prerequisite: HD 101, HD 110, HD 115, HD 145, and HD 150*

*Recommended Preparation: Completion of all work in the certificate program except HD 181 or completion of all coursework in the transfer degree except HD 181.*

This course presents an advanced study of the role of curriculum in the early childhood classroom. Emphasis is on the underlying theoretical principles of developmentally appropriate practice (DAP) in a strong play-based learning environment. The theoretical perspectives of Dewey, Erikson, Montessori, Piaget, and Vygotsky provide a framework for teaching and learning. The course also introduces effective techniques for evaluating and rating individual classrooms. This course may be applied toward the California Child Development Permit. *NR*

## **HD 161 PRINCIPLES OF ADULT SUPERVISION IN EARLY CHILDHOOD PROGRAMS**

### **2 Units - 2 hours lecture**

*Transfers: CSU*

*Prerequisite: A minimum of 12 units in early childhood education*

*Recommended Preparation: Child Development Certificate*

This course studies the methods and principles of supervising adults in early childhood settings. Emphasis is on the role of experienced classroom teachers and administrators who mentor new teachers while simultaneously addressing the needs of children, families, and other staff members. This course meets adult supervision requirements for Master Teacher, Site Supervision, and Program Director Child Development Permits, and for teachers applying to the California Early Childhood Mentor Program. *NR*

## **HD 168 COOPERATIVE WORK EXPERIENCE: HUMAN DEVELOPMENT**

### **1 Unit - 1 hour lab**

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 or a certificate. *NR*

## **HD 168 COOPERATIVE WORK EXPERIENCE: HUMAN DEVELOPMENT**

### **2 Units - 2 hours lab**

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 or a certificate. *NR*

## **HD 168 COOPERATIVE WORK EXPERIENCE: HUMAN DEVELOPMENT**

### **3 Units - 3 hours lab**

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 or a certificate. *NR*

## **HD 168 COOPERATIVE WORK EXPERIENCE: HUMAN DEVELOPMENT**

### **4 Units - 4 hours lab**

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 or a certificate. *NR*

## **HD 181 PRACTICUM: EARLY CHILDHOOD PROGRAMS**

### **3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU*

*Prerequisite: HD 7, HD 15, HD 101, HD 110, HD 115, HD 120, HD 130, HD 150 OR BA degree plus HD 7, HD 15, HD 120, plus 3 units from above list*

*Corequisite: One unit of HD 168*

*Limitation: Student must have current clear TB test or chest x-ray*

This course is designed as a review and practical application of early childhood teaching competencies under the supervision of a master or mentor teacher. Students are required to participate in all segments of the program including curriculum planning and implementation, classroom management, effective guidance and communication with children and adults, observing and assessing children, and initiating activities. Lecture and discussion relate to putting theoretical concepts into practice directly with children. Concurrent enrollment in one unit of HD 168 is required. Meets course requirement for Title 22 licensing and California Child Development Permit. C-ID: ECE 210. *NR*

## **HD 190 ADMINISTRATION OF SCHOOLS FOR YOUNG CHILDREN - PROGRAM**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

*Recommended Preparation: Child Development Certificate or 24 units of HD/ECE courses.*

This course presents the principles of planning the program for a center and working effectively with staff and parents. It explores the role of the director, educational philosophy, personnel management, staff relations and training, effective communication, and professionalism in the field of Early Childhood Education (ECE). It is one of two courses in administration and partially meets requirements for directors under Title 22 and for the Child Development Center Permit issues by the California Commission on Teacher Credentialing. *NR*

## **HD 191 ADMINISTRATION OF SCHOOLS FOR YOUNG CHILDREN - BUDGET/MANAGEMENT**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

*Recommended Preparation: Child Development Certificate or 24 units of HD/ECE courses*

This course presents a study of principles of budget planning and child care center management. It explores financial management including developing and implementing an annual budget, financial policies and procedures, accounting and bookkeeping, and fund development. It also covers establishing policies and procedures, effective marketing techniques, legal issues, state licensing requirements and professional accreditation. *NR*

## **HD 213 OPERATING A QUALITY CHILD CARE PROGRAM IN YOUR HOME**

### **0.5 Unit - 0.5 hour lecture**

This course discusses the requirements of operating a high quality family child care business in the home. Planning for quality;

developing general policies and procedures; incorporating specific licensing and legal requirements; effective communication; maintaining a strong client base; and ensuring a high-quality program make up its content. *NR*

## **HD 215 PLANNING YOUR FAMILY CHILD CARE PROGRAMS**

### **0.5 Unit - 0.5 hour lecture**

This course provides specific examples of age-appropriate activities for children within a family child care home. It is designed for family child care providers. Areas of emphasis include dramatic play, art, math, science, cooking, language and literature, and motor activities. Students consider options for organizing the home environment, scheduling activities, and applying various guidance and discipline techniques. *NR*

## **HD 231 CHILD MALTREATMENT: IDENTIFICATION AND TREATMENT**

### **1 Unit - 1 hour lecture**

This course provides an overview of child maltreatment, including various types of abuse and neglect. The course examines the warning signs and consequences of maltreatment, as well as strategies for its prevention. Students receive instruction in the mandated requirements for and steps involved in reporting suspected cases of child maltreatment and available options for permanency planning, including foster care, kinship care and adoption. *NR*

## **HD 232 CHILDREN AND DIVORCE**

### **1 Unit - 1 hour lecture**

This course explores the common problems and concerns of families going through the process of divorce, focusing on the complexities of the experience from the child's perspective. It examines children's reactions to divorce and presents parents and teachers with practical information - concepts, insights, examples, and techniques - to help children through the experience. The course is of particular interest to parents, teachers, and childcare providers. *NR*

## **HD 250 TEACHING MATHEMATICS IN PLAY-BASED EARLY CHILDHOOD PROGRAMS**

### **1 Unit - 1 hour lecture**

This course explores the emerging understanding of math concepts children can learn in a play-based early childhood program. Emphasis is on integrating a child-based approach and content standards. The theoretical perspectives of Piaget and Vygotsky provide a framework for teaching. This course is appropriate for early childhood educators and parents of young children. *NR*

## **HD 251 TEACHING SCIENCE IN A PLAY-BASED EARLY CHILDHOOD PROGRAM**

### **1 Unit - 1 hour lecture**

This course explores how a play-based early childhood program can help foster children's understanding of science concepts in developmentally appropriate ways. Emphasis is on integrating a child-based approach and content standards. The theoretical perspectives of Piaget and Vygotsky provide a framework for teaching. The course is designed both for parents of young children and for early childhood educators and administrators seeking professional development. *NR*

## **HD 252 TEACHING LITERACY IN A PLAY-BASED EARLY CHILDHOOD PROGRAM**

### **1 Unit - 1 hour lecture**

This course explores how a play-based early childhood program can help foster children's emerging reading and writing abilities in developmentally appropriate ways. Emphasis is on integrating a child-based approach and content standards. Theoretical perspectives provide a framework for teaching. The course is appropriate for early childhood educators and parents of young children. *NR*

## **HD 253 DEALING WITH CHALLENGING CHILDREN**

**1 Unit - 1 hour lecture**

*Recommended Preparation: HD 7/PSYC 7 and HD 15/SOC 15*

This course presents an overview of effective discipline and guidance techniques for young children, with a focus on particularly difficult behavior. Principles of positive guidance, strategies for guidance, and specific applications for young children with challenging behaviors will be emphasized. The course partially meets requirements for Title 22 licensing. *NR*

**HD 266 PROGRAM PLANNING FOR SCHOOL-AGE CHILDREN****1 Unit - 1 hour lecture**

*Recommended Preparation: HD 7 and HD 15*

This course presents an integrated approach to school-age curriculum with an emphasis on planning and organizing the program. Topics include incorporating developmentally appropriate practice; creating the environment; developing a schedule; and planning activities to meet the biosocial, psychosocial, and cognitive needs of the child. This course partially meets Title 22 licensing requirements for school-age childcare providers. *NR*

**HD 267 STAFF DEVELOPMENT TOPICS FOR SCHOOL-AGE PROGRAMS****1 Unit - 1 hour lecture**

*Recommended Preparation: HD 7 and HD 15*

This course prepares students to work as high quality child care providers with elementary aged children in after school care programs. Students will learn the developmental characteristics of elementary aged children, determine strategies for planning activities, handling problems and conflicts among children, and connecting with families. Meets Title 22 and Child Development Permit requirements for school-age childcare. *NR*

**HD 268 GUIDANCE AND DISCIPLINE FOR SCHOOL-AGE CHILDCARE****1 Unit - 1 hour lecture**

*Recommended Preparation: HD 7 and HD 15*

This course presents an overview of effective discipline and guidance techniques for school-age children. Emphasis is on principles of positive guidance, strategies for guidance, and specific applications for children ages five to twelve. The course partially meets Title 22 licensing requirements for school-age childcare. *NR*

**HD 269 HOLIDAY AND SUMMER PROGRAMS FOR SCHOOL-AGE CHILDREN****1 Unit - 1 hour lecture**

*Recommended Preparation: HD 7 and HD 15*

This course presents an integrated approach to school-age curriculum with an emphasis on planning and organizing programs for summer and holidays. It includes scheduling for full-day programs and planning, themes, activities, field trips, and long-term projects. Partially meets Title 22 licensing requirements for school-age childcare providers. *NR*

**HD 270 ART, MUSIC, AND DRAMA FOR SCHOOL-AGE CHILDREN****1 Unit - 1 hour lecture**

*Recommended Preparation: HD 7/PSYC 7 and HD 15/SOC 15*

This course presents specific techniques for integrating art, music, and drama into the school-age curriculum. Utilizing an experiential approach it presents an overview of creative expression, the role of the arts in supporting development, and specific means of implementing developmentally appropriate activities into daily planning. The course meets Title 22 and Child Development Permit requirements for school-age childcare providers. *NR*

**HD 271 RECREATION, SPORTS AND FITNESS FOR SCHOOL-AGE CHILDREN****1 Unit - 1 hour lecture**

*Recommended Preparation: HD 7 and HD 15*

This course presents an integrated approach to school-age curriculum with an emphasis on encouraging fitness. The course includes an overview of physical and motor skill development from ages five to twelve and factors that contribute to problems of weight and child obesity. Students explore specific activities - cooperative games, movement activities, and sports - to promote fitness and health. The course partially meets Title 22 requirements for school-age childcare providers. *NR*

## Humanities

### HUM 1 INTRODUCTION TO HUMANITIES

#### 3 Units - 3 hours lecture

*Transfers: CSU, UC*

This course introduces students to themes central to humanistic inquiry and to the methodologies used to analyze artistic and written expressions that incorporate these themes. Students examine works of literature, art, architecture and philosophy chosen from a variety of historical periods and representative of distinctive approaches to the themes under discussion. Credit may be earned in either HUM 1 or 1H, but not both. *NR*

### HUM 1H INTRODUCTION TO HUMANITIES HONORS

#### 3 Units - 3 hours lecture

*Transfers: CSU, UC*

This course introduces students to themes central to humanistic inquiry and to the methodologies used to analyze artistic and written expressions that incorporate these themes. Students examine works of literature, art, architecture and philosophy chosen from a variety of historical periods and representative of distinctive approaches to the themes under discussion. This honors course will be enriched through limited class size, seminar format, more extensive writing assignments, and more challenging reading assignments. Credit may be earned in either HUM 1 or 1H, but not both. *NR*

### HUM 2 THE CULTURE OF ANCIENT GREECE AND ROME

#### 3 Units - 3 hours lecture

*Transfers: CSU, UC*

This course introduces students to the literature, philosophy, and culture of the ancient Greek and Roman worlds. Students examine works that defined and reflected Greek and Roman cultural values and subsequently influenced later philosophical, artistic, and literary developments in the West. Primary sources include representative epics, dramas, and philosophical texts, and works of art and architecture that were instrumental in the development of what is known as the "classical tradition." *NR*

### HUM 3 THE CULTURE OF MEDIEVAL AND RENAISSANCE EUROPE

#### 3 Units - 3 hours lecture

*Transfers: CSU, UC*

This course provides a general introduction to European medieval and Renaissance culture from the 12th through the 17th centuries. Students closely consider and discuss major primary works of literature, history, philosophy, and the arts. *NR*

### HUM 4 THE CULTURE OF THE MODERN WORLD: 1700 TO THE PRESENT

#### 3 Units - 3 hours lecture

*Transfers: CSU, UC*

The course provides a general introduction to the emergence and development of modernism, modernity, and modern culture from the 17th century to the present, with an emphasis on Western civilizations. Students query the distinctive qualities and transformations of the "modern" world by considering selected primary works in philosophy, history, literature, criticism, and the arts. *NR*



## **HUM 20 RELIGION AND THE QUEST FOR MEANING**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course is an introduction to the study of religion as an academic discipline, exploring the key theoretical approaches to the nature of religious experience and its function in human society. The course focuses particularly on the nature and function of religious myth/narrative, ritual, art, architecture, doctrine, and experience. *NR*

## **HUM 21 INTRODUCTION TO ASIAN RELIGIONS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course is intended to provide an introduction to the religions of Asia, including Hinduism, Buddhism, Jainism, Sikhism, Confucianism, Taoism, Shinto and Pacific Island religions. This course will cover the history as well as key doctrinal, philosophical, devotional, ritual and social aspects of these religions, including an introduction to primary texts. *NR*

## **HUM 22 INTRODUCTION TO JUDAISM, CHRISTIANITY, AND ISLAM**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course is a comparative study of Islam, Judaism, and Christianity. The course addresses the historical origin, growth, major doctrines, rituals, texts and philosophical presuppositions of each religion under discussion. Special attention will also be given to the interaction among these religions from ancient times to the present. *NR*

## **HUM 27 WORLD RELIGIONS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course is a comparative study of some of the major world religions focusing on Judaism, Christianity, Islam, and Buddhism, and also covering Hinduism, Confucianism, and Taoism. The course addresses the historical origins, growth, major doctrines, rituals, and philosophical presuppositions of each world religion under discussion. *NR*

## **HUM 50 MYTHOLOGY**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course studies critical approaches to understanding myth in the comparative context of world mythology. Analyzes myths from various time periods, geographic locations, and cultural settings using a variety of critical methodologies including Freud, Jung, Levi-Strauss, Barthes, Rank, and Propp. *NR*

## **HUM 70 HISTORY OF FILM**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course examines the development of film as one of the dominant art forms of the 20th and 21st century. Important technical achievements, movements, filmmakers, and historical trends will be discussed chronologically. Emphasis will be placed on the analysis of landmark films that represent the most pivotal moments in film history. *NR*

## **HUM 71 INTRODUCTION TO FILM**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course offers an introduction to the narrative, thematic, and aesthetic and philosophical aspects of cinema. Students will

examine a wide variety of films focusing on storytelling, staging, cinematography, acting, editing, sound, and film theory. Emphasis will be placed on the artistic quality of film and the development of technical methods used by filmmakers to present their ideas. Credit may be earned in either HUM 71 or 71H, but not both. *NR*

## **HUM 71H INTRODUCTION TO FILM HONORS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course offers an advanced introduction to the narrative, thematic, aesthetic, and philosophical aspects of cinema. Students will examine a wide variety of films focusing on storytelling, staging, cinematography, acting, editing, sound, and film theory. Emphasis will be placed on the artistic quality of film and the development of technical methods used by filmmakers to present their ideas. As an honors course, students will encounter more demanding film texts (including avant garde and experimental films) and readings in the areas of criticism and theory. Enriched assignments will require a higher level of engagement expressed in written and oral forms. Credit may be earned in either HUM 71 or HUM 71H, but not both. *NR*

## **HUM 72 FILM AND AMERICAN CULTURE**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course introduces students to the critical study of the representation and construction of American culture in film. Lectures, readings and screenings focus on the cinematic depiction of values and major events, political and social realities, and the portrayal of race, ethnicity, gender, sexuality, and class. Special attention will be paid to issues unique to documentary films: objectivity and subjectivity, ethical considerations, aesthetic developments, and production practices. Credit may be earned in either HUM 72 or 72H but not both. *NR*

## **HUM 72H FILM AND AMERICAN CULTURE HONORS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC credit pending*

This course introduces students to the critical study of the representation and construction of American culture in film. Lectures, readings and screenings focus on the cinematic depiction of values and major events, political and social realities, and the portrayal of race, ethnicity, gender, sexuality, and class. Special attention will be paid to issues unique to documentary films: objectivity and subjectivity, ethical considerations, aesthetic developments, and production practices. As an honors course, students will encounter more demanding film texts as well as challenging readings in the areas of race, class, sexuality and gender criticism and theory. Enriched assignments will require a higher level of engagement expressed in written and oral forms. Credit may be earned in either HUM 72 or 72H, but not both. *NR*

## **HUM 73 FILM GENRE STUDIES**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course examines the emergence of a category, or genre, of film within the context of film history. Each time the course is offered, it focuses on one or more genres (e.g., the Western, gangster film, musical, film noir) and the societal and economic context in which film types emerge. Students view representative films in order to identify and analyze techniques and conventions unique to the genres under consideration. *NR*

## **HUM 74 FILM AND LITERATURE**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course analyzes films adapted from literary texts, and the relationship between these films and their source texts. Students read, discuss and analyze texts in order to explore themes, issues, and literary forms used to present them, and then view, discuss, and analyze the film adaptation of the text. Emphasis will be placed on the complex relationship between film and its literary

source, especially the challenges of adapting the story from a literary audience to a film audience. HUM 74 is also listed as LIT 48; credit will be given in either area, not both. *NR*

## **HUM 90 INTRODUCTION TO ETHNIC STUDIES**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC credit pending*

Recommended Preparation: WR 201, WR 399 or ESL 201

Ethnic Studies introduces students to a historical and contemporary survey of ethnic groups and ethnic group relations in the United States among Anglos, Native Americans, Native Pacific Islanders, Asian Americans, Black and African Americans, and Latinx/Chicanx. Students will be introduced to the major concepts and issues in the study of race and ethnicity in the United States and a general overview of topics to be covered in more specialized Ethnic Studies classes. *NR*

## **HUM 91 INTRODUCTION TO ASIAN AMERICAN STUDIES**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC credit pending*

Recommended Preparation: WR 201, WR 399 or ESL 201

HUM 91 is a critical study of the Asian American experience. Students will read scholarly, literary, and visual texts in order to understand how the interdisciplinary field of Asian American Studies confronts issues of Asian American immigration, racialization, exclusion, social and political activism, assimilation, community-building, and transnationalism. It explores questions of gender and sexuality, race and class, war and imperialism, and culture and memory, and the forces that have shaped the experience of Asian Americans. It will also focus on how Asian Americans negotiate and often resist such forces through political and creative means of expression. *NR*

# **Interactive Media Arts**

## **IMA 20 WRITING AND STORYBOARDING FOR GAMES**

### **3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

Research and practice in the creation of an original story, to include storyboards, character development, plot structure and the design of both visual and verbal content. Course will study a variety of visual narrative approaches. Students will use an industry standard software to create animatics, a visual device for storytelling. *NR*

## **IMA 22 VISUAL SCRIPTING FROM GAMES**

### **3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

This course is a visual introduction to programming for games. We study game design from concept to finished projects for playability on the PC and console. Topics include core concepts in visual scripting to include finite state machines, actions, variables, events, basic Artificial Intelligence (AI), and editing basics. Students will design and build four responsive environments. Student projects will focus on developing visual scripting skills using industry-standard software. *NR*

## **IMA 30 3D ANIMATION**

### **3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

Prerequisite: DMA 120

This course is an introduction to 3D animation from concept to finished projects for games, virtual reality, film, emerging media, television, and the web. Topics include the 12 principles of animation and how they are applied to a variety of rigged models

used in 3D animation. Student projects will focus on developing conceptual and artistic skills using industry-standard software applications. *NR*

## **IMA 40 INTRODUCTION TO GAME DESIGN**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

Corequisite: IMA 98

This course is an introduction to game design from concept to finished projects for playability on the PC and console. Topics include basic level design, narrative development, prop design, and creating 3D environments. Student projects will focus on developing conceptual and artistic skills using industry-standard software applications. *NR*

## **IMA 46 CONCEPT DESIGN AND VISUAL DEVELOPMENT**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC credit pending*

Recommended Preparation: 2D illustration software like Photoshop or similar strongly recommended

Concept Design and Visual Development studies designing a blueprint for constructing 3D worlds for immersive environments. Topics include applied color theory, lighting and world design using 2D software in preparation for 3D production. Emphasis is placed on manipulating the eye in an interactive environment, researching a cohesive world, and color as mood. *NR*

## **IMA 88 3D CHARACTER ANIMATION II**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

Prerequisite: IMA 30

This course focuses on intermediate skills in 3D character animation and an introduction to motion capture. Students advance their skills in 3d animation, to include character weight, advanced arcs, overlapping action, and dual character interaction. Student projects will focus on developing conceptual and artistic skills using industry-standard software applications. *NR*

## **IMA 89 RIGGING FOR 3D ANIMATION**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

This course focuses is on rigging a character for use in 3D character animation. Rigging is a term used for 'making the 3D character animatable by building bones'. Students learn how to rig the face, body, and apply necessary movement constraints. Student projects will focus on developing technical skills using industry-standard 3D software. *NR*

## **IMA 96 2D ANIMATION PRINCIPLES**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

This course is an introduction to 2D character design and animation from concept to finished projects for interactive media arts related industries. Topics include the principles of animation as they pertain to a hand drawn object or character. Student projects will focus on developing conceptual and artistic skills using industry-standard software applications. *NR*

## **IMA 98 3D MODELING FOR GAMES AND FILM**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

Corequisite: IMA 40

This course is an introduction to 3D modeling from concept to finished projects for video and the Web. Topics include character

design and modeling, prop design and modeling, and creating 3D environments. Student projects will focus on developing conceptual and artistic skills using industry-standard software applications. *NR*

## **IMA 99 GAME DESIGN II**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

Prerequisite: IMA 98

This course is an intermediate study of game design from concept to finished project for playability on the PC and console. Topics include Game Level design, Environments, Player Characters, Interactions, Prefabs, Collections, Heads up display, Instantiation and Rigid bodies, Particle Systems and Menu Design. Students will design and build responsive environments. Student projects will focus on developing conceptual and artistic skills using industry-standard software applications. *NR*

## **IMA 179 CHARACTER DESIGN AND LAYOUT**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU*

Recommended Preparation: Art courses centered on drawing, sculpting and painting will increase student success.

Character Design and Layout analyzes the concept design stage of game production. This is a critical stage of game production, as all employee hiring decisions and schedules are then built off of decisions made at this stage of pre-production. *NR*

## **IMA 189 ENVIRONMENTAL TEXTURING AND LIGHTING**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU*

This course is an introduction to Environmental Texturing and Lighting from concept to finished projects for games, virtual reality, film, emerging media, television, and the web. Topics include texturing 3D worlds, lighting 3D worlds, and output. Student projects will focus on developing conceptual and artistic skills using industry-standard software applications. *NR*

## **IMA 190 ORGANIC MODELING**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU*

Prerequisite: IMA 98

IMA 190 is an advanced course in 3D modeling as it pertains to constructing digital art assets for virtual worlds and fabricated physical objects. Course content covers 3D modeling and design from concept to finished projects for virtual worlds and physical product. Topics include process and workflow, organic modeling concepts and techniques, environmental design theory, and output. Student projects will focus on developing conceptual and artistic skills using industry-standard software applications. *NR*

## **IMA 191 PORTFOLIO DEVELOPMENT - GAME LEVEL DESIGN**

**2.5 Units - 1.5 hours lecture, 3 hours lab**

*Transfers: CSU*

Prerequisites: IMA 20, IMA 22, IMA 40, and IMA 99

This course covers the development and presentation of a professional interactive media arts portfolio for game level design. Emphasis is on the selection of appropriate work, conceptual improvement, and methods of presentation, including digital and traditional formats. Students will complete a professional resume, cover letter, and artist's statement suitable for transfer or the job market. In addition, student will participate in a team project wherein they create an interactive media art project in a professional production environment. *NR*

## **IMA 192 PORTFOLIO DEVELOPMENT - 3D ANIMATION**

**2.5 Units - 1.5 hours lecture, 4 hours lab**

*Transfers: CSU*

Prerequisites: IMA 20, IMA 30, IMA 88, and IMA 89.

This course covers the development and presentation of a 3D animation / motion capture portfolio and team driven project. Emphasis is on the selection of appropriate work, conceptual improvement, and methods of presentation, including digital and traditional formats. Students will complete a professional resume, cover letter, and artist's statement suitable for transfer or the job market. In addition, student will participate in a team project wherein they create an interactive media project in a professional production environment. *NR*

**IMA 193 PORTFOLIO DEVELOPMENT - 2D MOTION****2.5 Units - 1.5 hours lecture, 4 hours lab**

*Transfers: CSU*

Prerequisites: ART 85, IMA 20, IMA 96, and IMA 179

This course covers the development and presentation of a professional fine art and graphic design portfolio. Emphasis is on the selection of appropriate work, conceptual improvement, and methods of presentation, including digital and traditional formats. Students will complete a professional resume, cover letter, and artist's statement suitable for transfer or the job market. In addition, student will participate in a team project wherein they create an interactive media art project in a professional production environment. *NR*

**IMA 194 PORTFOLIO DEVELOPMENT-ENVIRONMENTAL DESIGN****2.5 Units - 1.5 hours lecture, 4 hours lab**

*Transfers: CSU*

Prerequisite: IMA 190

This course covers the development and presentation of an Environmental Design portfolio and team driven project. Emphasis is on the selection of appropriate work, conceptual improvement, and methods of presentation, including digital and traditional formats. Students will complete a professional resume, cover letter, and artist's statement suitable for transfer or the job market. In addition, student will participate in a team project wherein they create an interactive media project in a professional production environment. *NR*

**IMA 197 2D ANIMATION PRINCIPLES II****3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU*

Prerequisite: IMA 96

This course builds upon the skills learned in IMA 96. Topics include a review of the principles of animation and industry tools, as well as advanced study in gesture, seeing, analysis, creativity, thinking, drawing and expression. Students will create art assets for immersive design media using industry standard methods. Student projects will focus on developing conceptual and artistic skills using industry-standard software applications. *NR*

## **Intercollegiate Athletics**

**IA 1 INTERCOLLEGIATE SPORTS OFF SEASON TRAINING****3 Units - 10 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: Previous experience playing competitive athletics at the high school or club level.

This course gives students an opportunity to train for intercollegiate athletics. *R-E-3*

## **IA 1A INTERCOLLEGIATE SPORTS OFF SEASON TRAINING A**

### **1.5 Units - 5 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: Previous experience playing competitive athletics at the high school or club level.

This course gives students an opportunity to train for intercollegiate athletics. *R-E-3*

## **IA 2 INTERCOLLEGIATE MEN'S BASKETBALL**

### **3 Units - 10 hours lab**

*Transfers: CSU, UC*

*Limitation: Students must meet the COA eligibility requirement and pass a physical examination prior to intercollegiate competition.*

This course gives students an opportunity to train for and participate in men's intercollegiate basketball. *R-E-3*

## **IA 3 INTERCOLLEGIATE MEN'S BASEBALL**

### **3 Units - 10 hours lab**

*Transfers: CSU, UC*

*Limitation: Students must meet the COA eligibility requirement and pass a physical examination prior to intercollegiate competition.*

This course gives students an opportunity to train for and participate in men's intercollegiate baseball. *R-E-3*

## **IA 4 INTERCOLLEGIATE SAND VOLLEYBALL**

### **3 Units - 10 hours lab**

*Transfers: CSU, UC*

*Limitation: Students must meet the COA eligibility requirement and pass a physical examination prior to intercollegiate competition.*

Recommended Preparation: KNES 79 or two years of organized competitive playing experience strongly recommended.

This course gives students an opportunity to train for and participate in intercollegiate sand volleyball. *R-E-3*

## **IA 6 INTERCOLLEGIATE MEN'S GOLF**

### **3 Units - 10 hours lab**

*Transfers: CSU, UC*

*Limitation: Students must meet the COA eligibility requirement and pass a physical examination prior to intercollegiate competition.*

This course is designed to give students an opportunity to train for and participate in men's intercollegiate golf. *R-E-3*

## **IA 7 INTERCOLLEGIATE WOMEN'S GOLF**

### **3 Units - 10 hours lab**

*Transfers: CSU, UC*

*Limitation: Students must meet the COA eligibility requirement and pass a physical examination prior to intercollegiate competition.*

This course is designed to give students an opportunity to train for and participate in women's intercollegiate golf. *R-E-3*

## **IA 9 INTERCOLLEGIATE MEN'S TENNIS**

### **3 Units - 10 hours lab**

*Transfers: CSU, UC*

*Limitation: Students must meet the COA eligibility requirement and pass a physical examination prior to intercollegiate*

competition.

Recommended Preparation: KNES 26 or two years of organized competitive playing experience strongly recommended.  
This course gives students an opportunity to train for and participate in men's intercollegiate tennis. *R-E-3*

## **IA 10 INTERCOLLEGIATE WOMEN'S VOLLEYBALL**

### **3 Units - 10 hours lab**

*Transfers: CSU, UC*

*Limitation: Students must meet the COA eligibility requirement and pass a physical examination prior to intercollegiate competition.*

Recommended Preparation: KNES 78 or organized competitive playing experience (including high school) strongly recommended.

This course gives students an opportunity to train for and participate in women's intercollegiate volleyball. *R-E-3*

## **IA 12 INTERCOLLEGIATE WOMEN'S BASKETBALL**

### **3 Units - 10 hours lab**

*Transfers: CSU, UC*

*Limitation: Students must meet the COA eligibility requirement and pass a physical examination prior to intercollegiate competition.*

This course give students an opportunity to train for and participate in women's intercollegiate basketball. *R-E-3*

## **IA 13 INTERCOLLEGIATE WOMEN'S TENNIS**

### **3 Units - 10 hours lab**

*Transfers: CSU, UC*

*Limitation: Students must meet the COA eligibility requirement and pass a physical examination prior to intercollegiate competition.*

Recommended Preparation: KNES 28 or two years of organized competitive playing experience strongly recommended.

This course gives students an opportunity to train for and participate in women's intercollegiate tennis. *R-E-3*

## **IA 15 INTERCOLLEGIATE MEN'S SOCCER**

### **3 Units - 10 hours lab**

*Transfers: CSU, UC*

*Limitation: Students must meet the COA eligibility requirement and pass a physical examination prior to intercollegiate competition.*

Recommended Preparation: KNES 74 or two years of organized competitive playing experience.

This course gives students an opportunity to train for and participate in men's intercollegiate soccer. *R-E-3*

## **IA 18 INTERCOLLEGIATE WOMEN'S SOCCER**

### **3 Units - 10 hours lab**

*Transfers: CSU, UC*

*Limitation: Students must meet the COA eligibility requirement and pass a physical examination prior to intercollegiate competition.*

Recommended Preparation: KNES 74 or two years of organized competitive playing experience.

This course gives students an opportunity to train for and participate in women's intercollegiate soccer. *R-E-3*

## **IA 19 INTERCOLLEGIATE MEN'S VOLLEYBALL**

### **3 Units - 10 hours lab**

*Transfers: CSU, UC*



*Limitation: Students must meet the COA eligibility requirement and pass a physical examination prior to intercollegiate competition.*

Recommended Preparation: KNES 79 or two years of organized competitive playing experience strongly recommended.

This course gives students an opportunity to train for and participate in men's intercollegiate volleyball. *R-E-3*

## **IA 20 INTERCOLLEGIATE WOMEN'S BADMINTON**

**3 Units - 10 hours lab**

*Transfers: CSU, UC*

*Limitation: Students must meet the COA eligibility requirement and pass a physical examination prior to intercollegiate competition.*

Recommended Preparation: KNES 13 or two years of organized competitive playing experience (including high school) strongly recommended.

This course gives students an opportunity to train for and participate in women's intercollegiate badminton. *R-E-3*

## **IA 121 STRENGTH TRAINING AND CONDITIONING FOR SPORT**

**2 Units - 4.5 hours lab 1 hour lecture, 3 hours lab**

*Transfers: CSU*

This course is designed for students interested in strength training and conditioning methods specific to their sport. The course presents the principles and properties of a physiologically sound strength-training program, focusing on advanced modes of training, including free weights, machines, medicine balls, plyometrics, circuit training, and conditioning. *R-E-3*

## **IA 121 STRENGTH TRAINING AND CONDITIONING FOR SPORT**

**1 Unit - .5 hour lecture, 1.5 hours lab 1 hour lecture, 3 hours lab**

*Transfers: CSU*

This course is designed for students interested in strength training and conditioning methods specific to their sport. The course presents the principles and properties of a physiologically sound strength-training program, focusing on advanced modes of training, including free weights, machines, medicine balls, plyometrics, circuit training, and conditioning. *R-E-3*

# **Japanese**

## **JA 1 BEGINNING JAPANESE I**

**5 Units - 5 hours lecture**

*Transfers: CSU, UC*

This course is designed to develop the fundamentals of communicating in Japanese, including listening comprehension, reading, and basic conversation. The emphasis is on the comprehension of native spoken and written Japanese. The course introduces reading and writing Japanese syllabic symbols and selected kanji characters. It also presents general aspects of Japanese daily life and culture. Throughout the course, the role of grammar is secondary to that of acquiring basic competency in reading, writing, and speaking Japanese and inferring its meaning. JA 1 is equivalent to two years of high school Japanese. Credit may be earned in either JA 1 or 1H, but not both. *NR*

## **JA 1H BEGINNING JAPANESE I HONORS**

**5 Units - 5 hours lecture**

*Transfers: CSU, UC*

This Honors JA 1 is designed to develop the fundamentals of communicating in Japanese, including listening, comprehension, reading, and basic conversation. The emphasis is on the comprehension of native spoken and written Japanese. The course introduces reading and writing Japanese syllabic symbols and selected kanji characters. It also presents general aspects of

Japanese culture. Throughout the course, the role of grammar is secondary to that of acquiring basic competency in reading, writing and speaking Japanese and inferring its meaning. JA 1 is equivalent to two years of high school Japanese. This honors course will be enriched through limited class size, an extensive research project and a presentation in Japanese. Credit may be earned in either JA 1 or 1H, but not both. *NR*

## **JA 2 BEGINNING JAPANESE II**

### **5 Units - 5 hours lecture**

*Transfers: CSU, UC*

Prerequisite: JA 1 or JA 1H or two years of high school Japanese.

This course is designed to develop fundamental skills in communicating in Japanese. Emphasis is on the comprehension of native spoken and written Japanese. The role of grammar is secondary to that of acquiring basic competency in reading, writing, and speaking Japanese and inferring meaning. The course expands upon Japanese syllabic symbols and selected kanji characters. It also presents general aspects of Japanese daily life and culture. Credit may be earned in either JA 2 or 2H, but not both. *NR*

## **JA 2H BEGINNING JAPANESE II HONORS**

### **5 Units - 5 hours lecture**

*Transfers: CSU, UC credit pending*

Prerequisite: JA 1 or JA 1H or two years of high school Japanese.

This course is designed to develop fundamental skills in communicating in Japanese. Emphasis is on the comprehension of native spoken and written Japanese. The role of grammar is secondary to that of acquiring basic competency in reading, writing, and speaking Japanese and inferring meaning. The course expands upon Japanese syllabic symbols and selected kanji characters. It also presents general aspects of Japanese daily life and culture. JA 2H is enriched with more rigorous writing assignments, research projects that develop critical thinking, and an oral presentation in Japanese. JA 2H gives students more opportunity for practice and gaining understanding in Japanese and its culture. Credit may be earned in either JA 2 or 2H, but not both. *NR*

## **JA 3 INTERMEDIATE JAPANESE I**

### **5 Units - 5 hours lecture**

*Transfers: CSU, UC*

Prerequisite: JA 2 or successful completion of three years of high school Japanese

This is the first course in second-year Japanese. Students develop further skills in listening, speaking, reading and writing and expand their vocabulary and kanji character repertoire. There is increased emphasis on complex sentence structures and idiomatic expressions, as well as on Japanese history and culture. Japanese 3 is conducted in Japanese. *NR*

## **JA 4 INTERMEDIATE JAPANESE II**

### **5 Units - 5 hours lecture**

*Transfers: CSU, UC*

Prerequisite: JA 3 or successful completion of four years of high school Japanese

This is the second course in second-year Japanese. Develops student skills in listening, speaking, reading and writing with increased emphasis on complex sentence structures, idiomatic expressions, mastery of over 300 kanji characters and Japanese history and culture. Conducted in Japanese. *NR*

## **JA 10 INTERMEDIATE CONVERSATIONAL JAPANESE**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Prerequisite: JA 2 or three years of high school Japanese

This course is designed to develop fluency in Japanese on various levels of expression. Conversations are centered on topics including current events, politics, cinemas, art, literature, theater, and other aspects of Japan and Japanese culture. *NR*

## **JA 21 INTRODUCTION TO JAPANESE CULTURE**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: College-level English reading, writing and Internet-technology based communication skills.

This introductory lecture and discussion course covers various aspects of Japanese culture. Areas of study include the geography of Japan and the history, literature, art, philosophy, religion, business practices, and customs of the people. Students will study a variety of materials to discuss the Japanese culture and its relationship to other cultures of the world. The class is conducted in English, and no knowledge of Japanese is required. *NR*

## **JA 23 JAPANESE ANIME AND MANGA**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: RD 370, ESL 301, or WR 301

This course examines, analyzes and discusses central themes and topics in Japanese culture and society through the lens of Japanese animation (anime) and printed cartoons/graphic novels (manga). Students also consider the work of key anime and manga artists to gain an insight into the evolution of these genres and how they have impacted the development of global popular culture. Classes are conducted in English. *NR*

## **JA 180 JAPANESE LANGUAGE CONFERENCE**

### **0.5 Unit - 1.5 hours learning center**

*Transfers: CSU*

Corequisite: JA 1, JA 1H, JA 2, JA 3, JA 4, JA 10, JA 21, JA 23

This open-entry/open-exit, pass/no-pass course offers conference instruction with Japanese language instructors for students enrolled in specified corequisite courses. The course focus is on exercises and assignments to improve students' speaking, listening, reading, writing, and grammar skills in native Japanese. Students must complete at least 24 hours in the Languages Center during the semester and participate in no less than four conferences in order to receive credit. *R-E-3*

# **Journalism**

## **JRNL 40 MASS MEDIA AND SOCIETY**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course introduces students to the complexity of media forms in society. Students will analyze media types, functions, responsibilities, practices, and influences as well as investigate the legal framework that governs the media, ethical considerations, historical developments in the various media, and the local and global aspects of both mass and personal media. The course is designed to increase critical awareness of how media and society influence each other. C-ID: JOUR 100. *NR*

## **JRNL 41 NEWSWRITING**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course focuses on newswriting and reporting for print, broadcast, and online media. Central topics include methods of newsgathering, interpreting significant news events, organizing and writing articles, using appropriate news style, and techniques of in-depth reporting. C-ID: JOUR 110. *NR*

## **JRNL 181 JOURNALISM FOR PUBLICATION**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

Recommended Preparation: WR 301, JRNL 41

Students will gain valuable knowledge of interviewing, gathering information, news judgment, writing and editing news and feature stories for publication through a hands-on approach to publishing Irvine Valley College's news website. Students will gain experience in all aspects of publishing online which will allow them to feel comfortable in transitioning to a four-year college publication. There will be field assignments outside the classroom. *NR*

## **Kinesiology**

### **KNES 3A LIFE FITNESS CENTER I**

#### **1 Unit - 0.5 hour lecture, 1.5 hours lab**

*Transfers: CSU, UC*

This combination lecture/lab course is designed to develop and encourage healthy attitudes and habits with regard to cardiovascular efficiency, body composition, muscular strength and endurance, and flexibility. The course covers the safe use of exercise equipment, the components of a balanced fitness program, basic nutrition, and pre- and post-testing of physical fitness. Students use state-of-the-art weight-training and cardiovascular equipment to enhance their fitness levels. This course is offered on a pass/no-pass basis and is open-entry/open exit. Students must complete at least 24 hours in the Life Fitness Center during the semester to receive credit. *NR*

### **KNES 3B LIFE FITNESS CENTER II**

#### **1.5 Units - 0.5 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

This combination lecture/lab course is designed to develop and encourage healthy attitudes and habits with regard to cardiovascular efficiency, body composition, muscular strength and endurance, and flexibility. The course covers the safe use of exercise equipment, the components of a balanced fitness program, basic nutrition, and pre- and post-testing of physical fitness. Students use state-of-the-art weight-training and cardiovascular equipment to enhance their fitness levels. This course is offered on a pass/no-pass basis and is open-entry/open exit. Students must complete at least 48 hours in the Life Fitness Center during the semester to receive credit. *NR*

### **KNES 3C LIFE FITNESS CENTER III**

#### **2 Units - 0.5 hour lecture, 4.5 hours lab**

*Transfers: CSU, UC*

This combination lecture/lab course is designed to develop and encourage healthy attitudes and habits with regard to cardiovascular efficiency, body composition, muscular strength and endurance, and flexibility. The course covers the safe use of exercise equipment, the components of a balanced fitness program, basic nutrition, and pre- and post-testing of physical fitness. Students use state-of-the-art weight-training and cardiovascular equipment to enhance their fitness levels. This course is offered on a pass/no-pass basis and is open-entry/open exit. Students must complete at least 75 hours in the Life Fitness Center during the semester to receive credit. *NR*

### **KNES 4 WEIGHT TRAINING I**

#### **0.5 Unit - 1.5 hours lab**

*Transfers: CSU, UC*

This course introduces the basic principles related to the acquisition of muscular strength and endurance. The course addresses the physiological adaptations that occur as a result of strength training. Students will explore training techniques as well as available equipment. KNES 4 may be taken once for a maximum of 1 unit. *NR*

## **KNES 4 WEIGHT TRAINING I**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

This course introduces the basic principles related to the acquisition of muscular strength and endurance. The course addresses the physiological adaptations that occur as a result of strength training. Students will explore training techniques as well as available equipment. KNES 4 may be taken once for a maximum of 1 unit. *NR*

## **KNES 5 WEIGHT TRAINING II**

### **0.5 Unit - 1.5 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 4 strongly recommended

This course is designed to help students develop their physical strength through weight lifting. Students practice advanced methods and techniques of weight lifting and develop an individual program to improve their strength. KNES 5 may be taken once for a maximum of 1 unit. *NR*

## **KNES 5 WEIGHT TRAINING II**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 4 strongly recommended

This course is designed to help students develop their physical strength through weight lifting. Students practice advanced methods and techniques of weight lifting and develop an individual program to improve their strength. KNES 5 may be taken once for a maximum of 1 unit. *NR*

## **KNES 6 WEIGHT TRAINING III**

### **0.5 Unit - 1.5 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 5 strongly recommended

This course presents the principle and properties of a physiologically sound strength-training program, focusing on advanced modes of training. Students create a personalized workout regimen that includes free weights, machines, medicine balls, plyometrics, circuit training, and conditioning. KNES 6 may be taken once for a maximum of 1 unit. *NR*

## **KNES 6 WEIGHT TRAINING III**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 5 strongly recommended

This course presents the principle and properties of a physiologically sound strength-training program, focusing on advanced modes of training. Students create a personalized workout regimen that includes free weights, machines, medicine balls, plyometrics, circuit training, and conditioning. KNES 6 may be taken once for a maximum of 1 unit. *NR*

## **KNES 7 WEIGHT TRAINING IV**

### **0.5 Unit - 1.5 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 6 strongly recommended

This course reviews weight training principles and introduces powerlifting including equipment and safety techniques. Instruction includes proper protocols to successfully execute basic explosive and powerlifting exercises as well as nutritional factors related to individual strength and fitness performance. KNES 7 may be taken once for a maximum of 1 unit. *NR*

## **KNES 7 WEIGHT TRAINING IV**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 6 strongly recommended

This course reviews weight training principles and introduces powerlifting including equipment and safety techniques.

Instruction includes proper protocols to successfully execute basic explosive and powerlifting exercises as well as nutritional factors related to individual strength and fitness performance. KNES 7 may be taken once for a maximum of 1 unit. *NR*

## **KNES 11 BADMINTON I**

### **0.5 Unit - 1.5 hours lab**

*Transfers: CSU, UC*

This course introduces the official singles and doubles games of badminton at the beginning level. Students practice basic strokes, footwork, strategies, rules, scoring, and court etiquette. KNES 11 may be taken once for 1 unit. *NR*

## **KNES 11 BADMINTON I**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

This course introduces the official singles and doubles games of badminton at the beginning level. Students practice basic strokes, footwork, strategies, rules, scoring, and court etiquette. KNES 11 may be taken once for 1 unit. *NR*

## **KNES 12 BADMINTON II**

### **0.5 Unit - 1.5 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 11

This course is designed to develop intermediate-level skills in both singles and doubles games. Students focus on individual stroke analysis, offensive and defensive strategies, court coverage, and match play in order to encourage a more powerful game.

KNES 12 may be taken once for a maximum of 1 unit. *NR*

## **KNES 12 BADMINTON II**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 11

This course is designed to develop intermediate-level skills in both singles and doubles games. Students focus on individual stroke analysis, offensive and defensive strategies, court coverage, and match play in order to encourage a more powerful game.

KNES 12 may be taken once for a maximum of 1 unit. *NR*

## **KNES 13 BADMINTON III**

### **0.5 Unit - 1.5 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 12

The course is designed to help the advanced badminton student improve specific skills and strategies in both singles and doubles games. Students work on refining their strokes and on analyzing/playing to their individual and team strengths and opponents' weaknesses. KNES 13 may be taken once for a maximum of 1 unit. *NR*

## **KNES 13 BADMINTON III**

**1 Unit - 3 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 12

The course is designed to help the advanced badminton student improve specific skills and strategies in both singles and doubles games. Students work on refining their strokes and on analyzing/playing to their individual and team strengths and opponents' weaknesses. KNES 13 may be taken once for a maximum of 1 unit. *NR*

**KNES 20 BEGINNING GOLF****0.5 Unit - 1.5 hours lab**

*Transfers: CSU, UC*

This course introduces golf techniques, rules and etiquette. Students practice chipping, putting and golfing strategies, and incorporate these skills in playing a round of golf. Students are responsible for balls, green fees and clubs. KNES 20 may be taken once for a maximum of 1 unit. *NR*

**KNES 20 BEGINNING GOLF****1 Unit - 3 hours lab**

*Transfers: CSU, UC*

This course introduces golf techniques, rules and etiquette. Students practice chipping, putting and golfing strategies, and incorporate these skills in playing a round of golf. Students are responsible for balls, green fees and clubs. KNES 20 may be taken once for a maximum of 1 unit. *NR*

**KNES 22 INTERMEDIATE GOLF****0.5 Unit - 1.5 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 20 or some prior golfing experience

This course presents intermediate-level ball-striking techniques, golf rules and course etiquette. Students study and practice chipping, putting and hitting at the local driving range/practice facility with all clubs allowed in a competitive round of golf. Students are responsible for balls, golf clubs, and range fees. KNES 22 may be taken once for a maximum of 1 unit. *NR*

**KNES 22 INTERMEDIATE GOLF****1 Unit - 3 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 20 or some prior golfing experience

This course presents intermediate-level ball-striking techniques, golf rules and course etiquette. Students study and practice chipping, putting and hitting at the local driving range/practice facility with all clubs allowed in a competitive round of golf. Students are responsible for balls, golf clubs, and range fees. KNES 22 may be taken once for a maximum of 1 unit. *NR*

**KNES 23 ADVANCED GOLF****1 Unit - 3 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 20 or KNES 22 or professional golf lessons, and experience playing standard length golf courses.

This course provides training for those seeking improvement in their golf technique and knowledge. Emphasis is on developing ball-striking skills, and on scorecard evaluation, strategy, course management, and proper application of the rules of golf. Students are responsible for balls, golf clubs, and range fees. *NR*

**KNES 25 TENNIS I**

**0.5 Unit - 1.5 hours lab**

*Transfers: CSU, UC*

This course introduces the official singles and doubles games at the beginning level. It also provides an exercise program for those striving for a healthy lifetime activity. Students practice forehand and backhand strokes, serves, basic strategies, footwork, scoring, and court etiquette. KNES 25 may be taken once for a maximum of 1 unit. *NR*

**KNES 25 TENNIS I****1 Unit - 3 hours lab**

*Transfers: CSU, UC*

This course introduces the official singles and doubles games at the beginning level. It also provides an exercise program for those striving for a healthy lifetime activity. Students practice forehand and backhand strokes, serves, basic strategies, footwork, scoring, and court etiquette. KNES 25 may be taken once for a maximum of 1 unit. *NR*

**KNES 26 TENNIS II****0.5 Unit - 1.5 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 25

This course is designed to help the intermediate tennis student improve fundamental skills, analyze weaknesses, and practice offensive and defensive strategies in singles and doubles/mixed doubles games. It will emphasize game play, development of tactics, and court coverage to encourage a more powerful game. KNES 26 may be taken once for a maximum of 1 unit. *NR*

**KNES 26 TENNIS II****1 Unit - 3 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 25

This course is designed to help the intermediate tennis student improve fundamental skills, analyze weaknesses, and practice offensive and defensive strategies in singles and doubles/mixed doubles games. It will emphasize game play, development of tactics, and court coverage to encourage a more powerful game. KNES 26 may be taken once for a maximum of 1 unit. *NR*

**KNES 27 TENNIS III****0.5 Unit - 1.5 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 26

This course is designed to help the advanced tennis student improve specific skills and strategies. Students work on refining their serves, strokes, and specialty shots, and on analyzing/playing to their individual and team strengths and opponents' weaknesses. KNES 27 may be taken once for a maximum of 1 unit. *NR*

**KNES 27 TENNIS III****1 Unit - 3 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 26

This course is designed to help the advanced tennis student improve specific skills and strategies. Students work on refining their serves, strokes, and specialty shots, and on analyzing/playing to their individual and team strengths and opponents' weaknesses. KNES 27 may be taken once for a maximum of 1 unit. *NR*

**KNES 28 TENNIS IV**



**0.5 Unit - 1.5 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 27

This course is designed to help the advanced tennis student improve specific skills and strategies in competitive game situations. KNES 28 may be taken a maximum of once for 1 unit. *NR*

**KNES 28 TENNIS IV****1 Unit - 3 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 27

This course is designed to help the advanced tennis student improve specific skills and strategies in competitive game situations. KNES 28 may be taken a maximum of once for 1 unit. *NR*

**KNES 32 INTRAMURAL ACTIVITIES****0.5 Unit - 1.5 hours lab**

*Transfers: CSU, UC*

This course provides an opportunity for students to participate in individual and team sports. Sports offered vary by semester and may include volleyball, soccer, tennis, basketball, and golf. This course is taught on a pass/no-pass basis only. KNES 32 may be taken once for a maximum of 1 unit. *NR*

**KNES 32 INTRAMURAL ACTIVITIES****1 Unit - 3 hours lab**

*Transfers: CSU, UC*

This course provides an opportunity for students to participate in individual and team sports. Sports offered vary by semester and may include volleyball, soccer, tennis, basketball, and golf. This course is taught on a pass/no-pass basis only. KNES 32 may be taken once for a maximum of 1 unit. *NR*

**KNES 61 BASKETBALL I****0.5 Unit - 1.5 hours lab**

*Transfers: CSU, UC*

This course focuses on developing basic basketball skills and preparing students for beginning team play. KNES 61 may be taken once for a maximum of 1 unit. *NR*

**KNES 61 BASKETBALL I****1 Unit - 3 hours lab**

*Transfers: CSU, UC*

This course focuses on developing basic basketball skills and preparing students for beginning team play. KNES 61 may be taken once for a maximum of 1 unit. *NR*

**KNES 62 BASKETBALL II****0.5 Unit - 1.5 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 61 strongly recommended

This course focuses on developing intermediate basketball skills and preparing students for team play. KNES 62 may be taken once for a maximum of 1 unit. *NR*

## **KNES 62 BASKETBALL II**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 61 strongly recommended

This course focuses on developing intermediate basketball skills and preparing students for team play. KNES 62 may be taken once for a maximum of 1 unit. *NR*

## **KNES 63 BASKETBALL III**

### **0.5 Unit - 1.5 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 62 strongly recommended

This course is designed for players who have mastered the fundamental skills, strategies, and rules of basketball and seek to develop advanced-level physical and mental skills for competitive play. In addition to refining offensive and defensive skills, students analyze game tactics and evaluate strategies for strengthening personal and team performance. KNES 63 may be taken once for a maximum of 1 unit. *NR*

## **KNES 63 BASKETBALL III**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 62 strongly recommended

This course is designed for players who have mastered the fundamental skills, strategies, and rules of basketball and seek to develop advanced-level physical and mental skills for competitive play. In addition to refining offensive and defensive skills, students analyze game tactics and evaluate strategies for strengthening personal and team performance. KNES 63 may be taken once for a maximum of 1 unit. *NR*

## **KNES 64 BASKETBALL IV**

### **0.5 Unit - 1.5 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 62 strongly recommended

KNES 64 provides instruction at an advanced level in the rules, strategies and skills of basketball for students refining their skills in competitive play. Includes round-robin play during the last half of the semester. *NR*

## **KNES 71 SOCCER I**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

This course introduces the official game of soccer, including basic techniques of shooting, passing, receiving, crossing, heading, kicking, dribbling, trapping and shielding. Students practice fundamental rules, scoring, and strategies. *NR*

## **KNES 72 SOCCER II**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 71 strongly recommended

This course is designed to strengthen fundamental soccer skills. Emphasis is on scrimmages and applying offensive and defensive group strategies in competitive play. The course also introduces tactical strategies for each player: forwards, midfielders, fullbacks, and goalkeepers. *NR*

## **KNES 73 SOCCER III**

**1 Unit - 3 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 72 strongly recommended

This course focuses on refining soccer skills and game tactics for the individual, group and team. Students practice ball-juggling skills and apply more sophisticated offensive, mid-field and defensive strategies in game situations. The course also covers injury prevention and safety. *NR*

**KNES 74 SOCCER IV****0.5 Unit - 1.5 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 73 strongly recommended

This course is designed for players who have mastered the fundamental skills, strategies, and rules of soccer and seek to develop advanced-level physical and mental skills for competitive play. In addition to refining offensive and defensive skills, students analyze game tactics and evaluate strategies for strengthening personal and team performance. KNES 74 may be taken once for a maximum of 1 unit. *NR*

**KNES 74 SOCCER IV****1 Unit - 3 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 73 strongly recommended

This course is designed for players who have mastered the fundamental skills, strategies, and rules of soccer and seek to develop advanced-level physical and mental skills for competitive play. In addition to refining offensive and defensive skills, students analyze game tactics and evaluate strategies for strengthening personal and team performance. KNES 74 may be taken once for a maximum of 1 unit. *NR*

**KNES 76 VOLLEYBALL I****0.5 Unit - 1.5 hours lab**

*Transfers: CSU, UC*

This course introduces the fundamental strategies and skills of volleyball, including setting, passing, spiking, blocking, and serving, as well as the beginning concepts of team and tournament play. KNES 76 may be taken once for a maximum of 1 unit. *NR*

**KNES 76 VOLLEYBALL I****1 Unit - 3 hours lab**

*Transfers: CSU, UC*

This course introduces the fundamental strategies and skills of volleyball, including setting, passing, spiking, blocking, and serving, as well as the beginning concepts of team and tournament play. KNES 76 may be taken once for a maximum of 1 unit. *NR*

**KNES 77 VOLLEYBALL II****0.5 Unit - 1.5 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 76

This course gives intermediate students an opportunity to improve their volleyball skills. Students practice passing, setting, hitting, serving and blocking, as well as basic offensive and defensive systems of play. The course includes discussions of rules and strategy. KNES 77 may be taken once for a maximum of 1 unit. *NR*

## **KNES 77 VOLLEYBALL II**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 76

This course gives intermediate students an opportunity to improve their volleyball skills. Students practice passing, setting, hitting, serving and blocking, as well as basic offensive and defensive systems of play. The course includes discussions of rules and strategy. KNES 77 may be taken once for a maximum of 1 unit. *NR*

## **KNES 78 VOLLEYBALL III**

### **0.5 Unit - 1.5 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 77

This course presents advanced volleyball techniques and tactics for team and tournament play. The course offers advanced skills, court positioning, defensive techniques, and team strategy, both offensive and defensive. KNES 78 may be taken once for a maximum of 1 unit. *NR*

## **KNES 78 VOLLEYBALL III**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 77

This course presents advanced volleyball techniques and tactics for team and tournament play. The course offers advanced skills, court positioning, defensive techniques, and team strategy, both offensive and defensive. KNES 78 may be taken once for a maximum of 1 unit. *NR*

## **KNES 79 VOLLEYBALL IV**

### **0.5 Unit - 1.5 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 78

This course is designed for advanced level volleyball players who wish to further develop technique and enhance their individual skills and team strategies. Course includes offensive and defensive systems. KNES 79 may be taken once for a maximum of 1 unit. *NR*

## **KNES 79 VOLLEYBALL IV**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 78

This course is designed for advanced level volleyball players who wish to further develop technique and enhance their individual skills and team strategies. Course includes offensive and defensive systems. KNES 79 may be taken once for a maximum of 1 unit. *NR*

## **KNES 81 BASEBALL I**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

This course introduces the fundamental skills, base positions, safety considerations, and strategies of baseball. Emphasis is on individual skill development in game settings, including batting, bunting, throwing, case running, and fielding techniques; offensive and defensive situations; and associated game rules. *NR*

## **KNES 82 BASEBALL II**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 81 strongly recommended

This course is designed to develop intermediate-level baseball skills. The course presents tactical strategies for batters, runners, basemen, catchers, pitchers, and outfield players. Emphasis is on applying appropriate offensive and defensive strategies in practical game situations. *NR*

## **KNES 83 BASEBALL III**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: KNES 82 strongly recommended

This course is designed for players who have mastered the fundamental skills, strategies, and rules of baseball and seek to develop advanced-level physical and mental skills for competitive play. In addition to refining offensive and defensive skills (throwing, catching, fielding, hitting, bunting, base running, pitching, and sliding), students analyze game tactics and evaluate strategies for strengthening personal and team performance. *NR*

## **KNES 84 BASEBALL IV**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

This course focuses on developing offensive and defensive techniques and skills for the advanced player. *NR*

## **KNES 85 INTRODUCTION TO ATHLETIC TRAINING**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course studies both the theory and the practice of preventing, recognizing, and rehabilitating common athletic injuries. Students gain practical experience in basic taping, wrapping, and bracing. The course is designed to assist trainers, coaches, athletes, and physical education majors. *NR*

## **KNES 86 THEORY OF COACHING**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This generic foundations course is designed for individuals interested in coaching sports at various levels. The course examines the philosophy of coaching; the role and responsibilities of the modern coach; techniques for motivating and communicating with athletes; principles and methods of training; developing and organizing sports programs; nutrition for health and performance; and managing injuries and emergencies. *NR*

## **KNES 99 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. KNES 99 was formerly offered as KNES 102. C-ID: KIN 100. *NR*

## **KNES 100 INTRODUCTION 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. TBA hours to be completed in adapted kinesiology program or related settings. *NR*

**KNES 101 INTRODUCTION TO SPORT PSYCHOLOGY****3 Units - 3 hours lecture**

*Transfers: CSU*

This course provides a thorough introduction to the principles of psychology as applied to the area of sport. The course explores individual personality differences and team dynamics as they apply to sporting performance; psychological techniques to enhance performance (hypnosis, cognitive-behavioral, imagery); and the profile of the "mentally tough" athletic. Students explore mental training techniques and create applied performance routines. *NR*

**KNES 103 MOVEMENT ANATOMY****3 Units - 3 hours lecture**

*Transfers: CSU*

This course, part of the Fitness Professional Certificate Program, discusses movement as it relates to exercise and sports. The course examines the composition, structure, function and movements of bones and joints; the structure and actions of skeletal muscle; and the practical application of kinesiological principles in developing structurally sound exercise program. *NR*

**KNES 104 EXERCISE PHYSIOLOGY****3 Units - 3 hours lecture**

*Transfers: CSU*

This course, part of the Fitness Professional Certificate Program, examines how the body functions under conditions of exercise stress. Students will study the practical implications of muscle function, cardiorespiratory and hormonal function; metabolism; body composition, training techniques; and the influence of the environment on exercise. *NR*

**KNES 105 PRINCIPLES OF STRENGTH AND CONDITIONING****3 Units - 3 hours lecture**

*Transfers: CSU*

This course, part of the Fitness Professional Certificate Program, provides a thorough review of the structure, action and performance of skeletal muscle for those intending to teach strength training. The course studies anatomy and physiology; muscular strength and endurance; flexibility; training sequences; available equipment; and safety factors, including contraindications. *NR*

**KNES 106 EXERCISE TESTING AND PRESCRIPTION****3 Units - 2.5 hours lecture, 1.5 hours lab**

*Transfers: CSU*

This course is a part of the Fitness Professional Certificate Program. A review of tests for determination of muscular strength and endurance, flexibility, body composition and aerobic endurance for normal adults. Study of the application of exercise guidelines for normal adults based upon the standards of the American Heart Association and the American College of Sports Medicine. *NR*

**KNES 107 TEACHING TRADITIONAL PHYSICAL EDUCATION SPORTS/MOVEMENTS****3 Units - 2 hours lecture, 3 hours lab**

*Transfers: CSU*

This course prepares students with the skills of teaching progressions and sport specific teaching strategies for traditional team

sports of volleyball, basketball, soccer, softball and football. The knowledge base will also include histories, skills, rules, and how to meet the state content standards. Appropriate teaching strategies are intended to promote active participation and experiential learning. This course is intended to prepare students who may want to become physical education teachers at the secondary school level. *NR*

## **KNES 108 SPORTS APPRECIATION**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

This course will explore past, current and future trends of sports and their impact on American society. This course will give students hands on integrated educational experience to enhance their professional skills and knowledge. Literature, discussions and multi-media presentations will be used to survey the evolution of sports and social issues from colonization to globalization. Understanding how physical activity impacted cultures long before America was born and how it impacts Americans today, will help students gain an appreciation for the important role sports play in the development of American society. *NR*

## **KNES 109 SOCIO-CULTURAL ISSUES IN SPORT**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

This course will explore past, current, and future trends of social-cultural issues in sport. Students will receive a hands on, integrated educational experience to enhance their professional skills and knowledge. Literature, discussions, and multi-media presentations will be used to survey how social-cultural issues impact sports and society. Students will engage in discussion and debate over topics such as media's role in sports, gender equity, racial barriers, concussions, performance enhancing drugs, women in sports, fantasy sports, ESports, along with a number of other social-cultural issues that impact sports and society. *NR*

## **KNES 212 SPORTS MEDICINE INTERNSHIP I**

### **1.5 Units - 4.5 hours lab**

This course provides practical instruction of the introductory skills in the prevention, recognition, and rehabilitation of common athletic injuries. It affords students the opportunity to study and apply athletic training techniques by assisting the IVC Sports Medicine staff working with the intercollegiate athletic teams. Students will be assessed based on evaluation standards established by the university undergraduate Athletic Training Education Program (ATEP). KNES 213 (integration of skills) and KNES 214 (mastery of skills) complete the recognized ATEP sequence. *NR*

## **KNES 213 SPORTS MEDICINE INTERNSHIP II**

### **1.5 Units - 4.5 hours lab**

Recommended Preparation: KNES 212 strongly recommended

This course is second in a three-part sequence based on the recognized university undergraduate Athletic Training Education Program (ATEP). It applies the skills introduced in KNES 212 by providing practical instruction in the integration of skills in the prevention, recognition, and rehabilitation of common athletic injuries. It affords students the opportunity to study and apply athletic training techniques by assisting the IVC Sports Medicine staff working with the intercollegiate athletic teams. Students will be assessed based on evaluation standards established by ATEP. KNES 214 (mastery of skills) completes the recognized ATEP sequence. *NR*

## **KNES 214 SPORTS MEDICINE INTERNSHIP III**

### **1.5 Units - 4.5 hours lab**

Recommended Preparation: KNES 212 and KNES 213 strongly recommended

This course is third in a three-part sequence based on the recognized university undergraduate Athletic Training Education Program (ATEP). Students will concentrate on mastering the skills used in the prevention, recognition, and rehabilitation of common athletic injuries. It affords students the opportunity to study and apply athletic training techniques by assisting the IVC

Sports Medicine staff working with the intercollegiate athletic teams. Students will be assessed based on evaluation standards established by ATEP. *NR*

## **KNES 215 FITNESS PROFESSIONAL INTERNSHIP**

### **3 Units - 1 hour lecture, 6 hours lab**

This course is designed to provide students with practical experience in screening individuals for risk factors for cardiovascular disease. Students perform physical testing and formulate an individualized exercise prescription based on fitness testing parameters. *NR*

## **KNES 223 CORE TRAINING I**

### **1 Unit - 3 hours lab**

This course introduces basic core-training techniques, equipment and exercises. Students practice aerobic and anaerobic exercises to improve core strength, flexibility, and overall fitness. *NR*

## **KNES 224 CORE TRAINING II**

### **1 Unit - 3 hours lab**

Recommended Preparation: KNES 223

This course incorporates additional core movement exercises to build core strength, coordination, balance, and flexibility. Students refine their technique and build a training program to address personal fitness goals. *NR*

## **KNES 225 CORE TRAINING III**

### **2 Units - 1 hour lecture, 3 hours lab**

This course is designed to improve the athlete's core strength, coordination, balance, quickness, and agility. Emphasis will be placed on medicine ball and bosu ball training for muscle enhancement to maximize performance *NR*

# **Kinesiology: Adapted**

## **KNEA 1 ADAPTED PERSONALIZED FITNESS**

### **0.5 Unit - 2 hours lab**

*Transfers: CSU, UC*

This fitness class stresses strength, flexibility, cardiovascular endurance, balance, and gait. It is designed for students who have participated in physical therapy or have a chronic medical diagnosis, or permanent disability. *NR*

## **KNEA 1 ADAPTED PERSONALIZED FITNESS**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

This fitness class stresses strength, flexibility, cardiovascular endurance, balance, and gait. It is designed for students who have participated in physical therapy or have a chronic medical diagnosis, or permanent disability. *NR*

# **Laser Technology**

## **LET 25 FUNDAMENTALS OF LIGHT**



**3 Units - 2.5 hours lecture, 1.5 hours lab**

*Transfers: CSU, UC*

This course introduces the fundamental properties of light, including its interaction with and generation from materials. Optical hardware is used in lecture demonstrations and laboratory experiments to show how light can be controlled. Essential components of optical systems are studied, including lenses, mirrors, prisms, windows, sources, detectors, optoelectronics, polarizers, fibers, and gratings. Students will gain hands-on experience with industrial hardware and tools as they construct basic optical component test setups and systems in the laboratory. LET 25 was formerly offered as LET 205. *NR*

**LET 168 COOPERATIVE WORK EXPERIENCE: PHOTONICS****1 Unit - 1 hour lab**

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 or a certificate. *NR*

**LET 215 FUNDAMENTALS OF PHOTONICS****3 Units - 2.5 hours lecture, 1.5 hours lab**

Recommended Preparation: LET 25

This course details the most important tools that are used when working with light, from lasers and other light sources to cameras and sensors. Photonic devices are used in lecture demonstrations and laboratory experiments to show how light can be generated, manipulated, and captured. Hardware is broken down to its constituent components--lasers are reduced to gain media, pump sources, and mirror cavities; cameras are reduced to the lenses, detectors and processors. Students will gain hands-on experience with industrial hardware and tools in the laboratory. *NR*

**LET 225 QUALITY ASSURANCE FOR PRECISION OPTICS****4 Units - 3.5 hours lecture, 1.5 hours lab**

This course addresses the basics of specification, manufacturing, and assessment of precision optics. It presents an introduction to quality assurance (QA) practices required to identify, inspect, and measure optical components. Materials and tools found in an industrial optics fabrication and inspection shop are used in lecture demonstrations and laboratory experiments. Students will gain hands-on experience with these industrial materials and QA tools in the laboratory. *NR*

**LET 235 OPTICAL METROLOGY AND INTERFEROMETRY****3 Units - 2.5 hours lecture, 1.5 hours lab**

This course is a hands-on laboratory course that will detail the measurement techniques required to ensure that a fabricated assembly or system meets its procurement specifications. It covers the design and application of optical metrology instrumentation such as interferometers and modulation transfer function measurement systems. Emphasis is on test applications that are required in quality assurance for optical engineering and manufacturing. Students will gain hands-on experience in the laboratory with industrial hardware and tools. *NR*

## Legal

**LGL 11 ADMINISTRATIVE LAW**

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course presents the constitutional, legal, and administrative principles that regulate activities of administrative agencies, on both the state and federal level. Substantive topics will include administrative delegation of power, rule making, agency discretionary powers, remedies, and judicial review. LGL 11 was formerly offered as LGL 211. *NR*

**LGL 15 ENVIRONMENTAL LAW AND POLICY****3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course presents fundamental concepts of environmental law with an emphasis on policy considerations. Topics include significant legislation in the area with emphasis on California law. Also covered will be ethical issues dealing with environmental concerns. LGL 15 was formerly offered as LGL 215. *NR*

**LGL 21 SOCIAL MEDIA AND THE LAW****3 Units - 3 hours lecture**

*Transfers: CSU, UC*

In this course, students will examine U.S. law and regulation of governing mass media, from print to the Internet. Students will also examine the ethical conflicts faced by media professionals. Topics include: freedom of speech, citizen journalism, defamation, privacy, copyright, obscenity, truth, ethics, social media and advertising. This course will help prepare future media producers to work in industries that have significant influence over society. LGL 21 was formerly offered as LGL 221. *NR*

**LGL 168 COOPERATIVE WORK EXPERIENCE: PARALEGAL STUDIES****1 Unit - 1 hour lab**

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 or a certificate. *NR*

**LGL 168 COOPERATIVE WORK EXPERIENCE: PARALEGAL STUDIES****2 Units - 2 hours lab**

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 or a certificate. *NR*

**LGL 168 COOPERATIVE WORK EXPERIENCE: PARALEGAL STUDIES****3 Units - 3 hours lab**

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 or a certificate. *NR*

## **LGL 168 COOPERATIVE WORK EXPERIENCE: PARALEGAL STUDIES**

### **4 Units - 4 hours lab**

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 or a certificate. *NR*

## **LGL 201 INTRODUCTION TO PARALEGAL STUDIES AND ETHICS**

### **2 Units - 2 hours lecture**

This course explores the dynamic of working as a paralegal, career opportunities in the legal environment, and the skills necessary to succeed in the field. Focus is on rules of ethics and the ethical guidelines that paralegals must follow. Topics include identifying career opportunities, performing legal investigations, evaluating sources, investigating facts and applying rules to facts, interviewing clients, witnesses, and experts, understanding discovery documents, providing litigation assistance, researching the law, drafting legal documents using computer software to conduct research and prepare documents, representing clients at administrative agencies where authorized by law, and understanding legal/ethical issues. *NR*

## **LGL 202 COMPUTER TECHNOLOGY AND ELECTRONIC RESEARCH**

### **3.5 Units - 3 hours lecture, 1.5 hours lab**

Recommended Preparation: CIM 210.1

This course introduces computer software used in law offices and other legal environments including Microsoft Office, calendaring, billing, docketing and indexing programs. Includes training in the use of electronic methods of performing research. *NR*

## **LGL 203 BUSINESS LAW CONTRACTS AND TORTS**

### **3 Units - 3 hours lecture**

Recommended Preparation: LGL 201

This course is an introduction to laws relating to the conduct of business, with an emphasis on the role and responsibilities of the paralegal. Topics include contracts, the Uniform Commercial Code, sales of personal and real property, negotiable instruments, agency, employment, torts, liability, nuisance, ethics, and social responsibility. *NR*

## **LGL 205 INTRODUCTION TO LEGAL RESEARCH AND WRITING**

### **3 Units - 3 hours lecture**

Prerequisite: LGL 202

This course provides instruction in the fundamentals of legal research, analysis, and writing for the paralegal. Topics include the reading and analysis of statutes; research using primary authorities, secondary sources, and computer-assisted research tools; law office writing, including transmittal and client opinion letters, pleadings, law office memorandums, case briefs, and memorandums of law; and legal citation rules. *NR*

## **LGL 206A CIVIL LITIGATION I**

### **3 Units - 3 hours lecture**

This course introduces civil law processes and procedures with an emphasis on the role of the paralegal in civil litigation

investigation, jurisdiction, pleadings, and discovery. Topics include evidence gathering and investigation, jurisdiction, venue identification, initiation of civil proceedings, drafting the complaint, filing a lawsuit, defending and testing a lawsuit, and discovery procedures. *NR*

## **LGL 206B CIVIL LITIGATION II**

### **3 Units - 3 hours lecture**

Prerequisite: LGL 206A

This course continues the study of litigation processes and procedures, focusing on the role of the paralegal in civil litigation. Topics include motions, subpoenas, trial preparation, alternative dispute resolution, settlement, trial procedures, dismissal, judgment, and judgment enforcement. *NR*

## **LGL 208 WILLS, TRUSTS, AND ESTATES**

### **3 Units - 3 hours lecture**

Recommended Preparation: LGL 205

This course provides an introduction to wills, trusts, and estates and the role of the paralegal/legal assistant in estate planning and administration, and probate. Topics include wills, intestacy, trusts, guardianships, conservatorships, advance directives, incapacitation, estate planning, taxation, probate procedures, and ethical considerations. *NR*

## **LGL 209 BANKRUPTCY**

### **3 Units - 3 hours lecture**

Recommended Preparation: LGL 205

This course provides an overview of bankruptcy laws and processes from the perspective of both the debtor and the creditor. Topics include the Bankruptcy Code and Rule, debtor relief, bankruptcy litigation, liquidation, creditor claims, and reorganization proceedings. The course covers the paralegal's responsibilities in researching and preparing legal documents related to bankruptcy. *NR*

## **LGL 210 INTELLECTUAL PROPERTY**

### **3 Units - 3 hours lecture**

Prerequisite: LGL 201

This course examines the different types of intellectual property ("IP"), the law associated with IP, and the paralegal's role including registration, prosecution, maintenance, protection, enforcement, and other controversies surrounding IP, such as infringement and dilution. The course will cover trademarks, copyrights, patents, and trade secrets. Students will analyze different types of IP, learn how to protect IP in the US and internationally, prosecute applications, maintain registration, protect IP, and enforcement of IP rights. The course includes an assessment of legal definitions, legal research and writing, and preparation of legal memorandum and IP forms. *NR*

## **LGL 212 APPLIED LEGAL TECHNOLOGY**

### **3 Units - 3 hours lecture**

Recommended Preparation: LGL 202

This course extends the paralegal student's computer knowledge to the new and advanced areas of applied legal technology. Topics include advanced functions of Word Processing software, spreadsheet software and Adobe Acrobat professional; Legal timekeeping and billing, Databases, and Litigation support software. *NR*

## **LGL 213 LEGAL ETHICS**

### **2 Units - 2 hours lecture**

Recommended Preparation: LGL 201

An examination of ethical regulations, considerations and responsibilities facing legal professionals including legal assistants and

paralegals. Focus will be on the unauthorized practice of law, confidentiality, attorney-client privilege, conflicts of interest and evolving ethical issues within the legal profession. *NR*

## **LGL 220 FAMILY LAW**

### **3 Units - 3 hours lecture**

This course will present an overview of the law relating to dissolution of marriage, separation, annulment, paternity, custody, guardianship and adoption. Students will be expected to understand substantive and procedural aspects of the law presented. Students will draft a Complaint, a judgment and a motion. *NR*

# **Library**

## **LIB 10 INTRODUCTION TO LIBRARY RESEARCH**

### **2 Units - 2 hours lecture**

*Transfers: CSU, UC*

This course provides a thorough introduction to the traditional and digital information resources of an academic library. Major topics include reference tools, print and electronic periodical/ journal indexes, online catalogs and databases, digital libraries, and bibliographic formats. Students practice techniques for developing research questions, creating search strategies, locating all types of library materials, organizing information, evaluating the credibility of resources, and preparing an annotated bibliography in accordance with the standards of a style manual. This course is recommended for all students. *NR*

## **LIB 11 INTRODUCTION TO ELECTRONIC DATABASES**

### **1 Unit - 1 hour lecture**

*Transfers: CSU, UC*

This course introduces students to electronic database resources used for college research. Emphasis is on search options, content, and the evaluation and citing of online materials, including references to full-text journal articles; E-book collections; and government publications. This course is recommended for all students. LIB 11 was formerly offered as LIB 111. *NR*

## **LIB 112 INFORMATION COMPETENCY: INTERNET SEARCHING**

### **1 Unit - 1 hour lecture**

*Transfers: CSU*

This course is an introduction to online research with an emphasis on information competency and literacy skills necessary for academic study. Course content includes the effective and efficient use of web-search strategies, specialized search tools, techniques for evaluating web resources, recognizing plagiarism, and appropriate bibliographic documentation of scholarly resources retrieved from the Internet. *NR*

# **Literature**

## **LIT 1 INTRODUCTION TO LITERATURE**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Prerequisite: WR 1

LIT 1 introduces the major types of literary expression as well as recurrent themes and motifs, conventions, concerns, and values central to literature and to the understanding of literary texts and contexts. Students read from and respond extensively to literary materials that reflect diversity in genre, historical period, and cultural expression. In this endeavor students will learn how

literature might embody and generate meaning, reflect and create culture and engage the human imagination. C-ID: ENGL 120. NR

## **LIT 7 SURVEY OF CHILDREN'S LITERATURE**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course surveys the historical and cultural development of children's literature. It focuses on critically reading and analytically responding to various forms of children's literature beginning with the oral tradition and its multicultural roots and extending to contemporary texts. The course reviews the social, emotional, and cognitive role literature plays for children. Course topics include the history of children's literature, literary genres, dominant elements and conventions, mainstream and academic responses to children's literature, and criteria for evaluating and books for children. NR

## **LIT 20 SURVEY OF BRITISH LITERATURE TO 1776**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Prerequisite: WR 201, WR 399, or ESL 201

This course offers a general introduction to and survey of the history of literature written in the British Isles from the pre-Norman period to the American Revolution. Emphasis is placed on major (influential or otherwise significant) texts and authors; intellectual and historical contexts within which literary works arose; the development of literary traditions, conventions, and genres; and the emergence of a "national" literature. C-ID: ENGL 160. NR

## **LIT 21 BRITISH LITERATURE FROM BLAKE TO THE PRESENT**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Prerequisite: WR 201, WR 399, or ESL 201

This course examines the major genres, issues, and themes central to the study of British literature from the rise of English Romanticism to late modern and contemporary British authors and texts. Students study Romanticism, Victorian literature, Modernism, post-war disillusion, and British literary culture since the Second World War, and examine the social and cultural contexts that shape the development and characteristics of these literary movements. C-ID: ENGL 165. NR

## **LIT 22 AMERICAN LITERATURE TO TWAIN**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Prerequisite: WR 201, WR 399, or ESL 201

This course examines the genesis of American literary traditions and what, in the views of diverse observers, it meant to be an American. The course surveys American literature from the narratives of exploration and encounter through the captivity narratives and sermons of the Colonial period; covers the political treatises and self-examination of the Enlightenment and Federalist period; and culminates in the Romanticism of the mid-nineteenth century with consideration of dominant and alternative voices. C-ID: ENGL 130. NR

## **LIT 23 AMERICAN LITERATURE: TWAIN TO THE PRESENT**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Prerequisite: WR 201, WR 399, or ESL 201

Surveys the rich cultural diversity of American literature from Twain through the present. Literary selections represent the distinctively American treatment of such genres as tales, slave narratives, essays, drama, poetry, short fiction, and novels. The course examines the textual features and thematic concerns of the literature of Realism, Naturalism, Regionalism, Modernism, the Harlem Renaissance, the Post-war period, Post-modernism, and the Contemporary period, and considers the historical and

intellectual influences on the development of this literature. The course also addresses varieties of critical approaches to the literature, and explores forces at work in the construction of the American canon. C-ID: ENGL 135. *NR*

## **LIT 24 CONTEMPORARY LITERATURE**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Literature 24 examines the work of selected contemporary writers from various traditions, media, and cultures. Emphasis is on contemporary writers from the fifties through today in fiction, creative nonfiction, drama, and poetry. Students will study these writings from a recent historical perspective to determine major themes and concerns of contemporary literature. *NR*

## **LIT 30 INTRODUCTION TO THE NOVEL**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: Eligibility for WR 1

Literature 30 introduces the novel, exploring its history, variations, flexibility and limitations as a literary genre. Students read from a variety of major novels-classic to contemporary and from a variety of cultures-in order to study the diversity of novelistic form and content and to discuss the various uses of and critical approaches to the form. *NR*

## **LIT 31 INTRODUCTION TO SHORT FICTION**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course studies short fiction from its classical origins to the short stories of contemporary authors. Students examine representative short stories within diverse historical, cultural, and literary traditions, and analyze how writers use central conventions and combine major elements of fiction such as plot, character and setting to establish theme and achieve desired narrative effect. *NR*

## **LIT 32 INTRODUCTION TO POETRY**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course is an introductory, historical study of the poetry of various cultures from antiquity to the present. The course introduces poetic conventions and traditions as well as terms and concepts fundamental to the study of poetry, as drawn from prosody, rhetoric, aesthetics, and criticism. In addition, the course explores important movements and essential concerns in the history of poetics. *NR*

## **LIT 33 INTRODUCTION TO DRAMA**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course surveys the development of drama and dramatic texts from Greek antiquity through contemporary drama. Students critically read then analytically respond to plays and other dramatic works reflecting a diversity of dramatic periods, traditions, and movements; genres, conventions, and themes; and concerns central to the study of drama. The course emphasizes how students might interpret and argue meaning of a text within historical, social, and literary contexts. *NR*

## **LIT 40 INTRODUCTION TO THE HEBREW BIBLE (OLD TESTAMENT)**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course offers a non-sectarian, general introduction to the Hebrew Bible (Old Testament and Apocrypha) as a literary text. The course specifically studies the historical, cultural, and literary contexts out of which the Hebrew Bible emerged; the

development of the Pentateuch, the Prophets, the Psalms, wisdom literature and apocalyptic writings; the process of collecting and ordering the Canon; critical approaches to the text; representations of major characters; the persistence and transformation of major themes; questions of audience; literary genres central to the study of the Hebrew Bible and Ancient Near-Eastern literature; and the influence of the Hebrew Bible on the New Testament and subsequent Western literary texts. *NR*

## **LIT 41 INTRODUCTION TO THE NEW TESTAMENT**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course offers a non-doctrinal introduction to the New Testament as a literary text. The course specifically studies the historical, cultural and literary contexts out of which the New Testament emerged; the gospels, the Acts of the Apostles, the epistles, Revelation, and the formation of the Canon; portrayals of Jesus of Nazareth; conflicts in the first-century church; themes, characters, literary genres, and theories of audience central to the study of the New Testament; theories of authorship and dating of New Testament books; and the influence of the New Testament on subsequent select works of Western literature. *NR*

## **LIT 43 INTRODUCTION TO SHAKESPEARE**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course provides a close study of William Shakespeare's dramatic work, including early and late plays selected from the histories, comedies, tragedies, satires, and romances. The course emphasizes Shakespeare's variety and development as a dramatic artist. Consideration is given to the social, cultural, and political milieu from which the plays emerged, as well as to the role, function, and performance of dramatic literature within Elizabethan and Jacobean England. *NR*

## **LIT 45 WOMEN IN LITERATURE**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: WR 201, WR 399, or ESL 201

Literature 45 examines the works of selected women poets, novelists, short story writers, essayists, and dramatists from various historical periods and cultures. Emphasis is on the participation of women in traditional and nontraditional literary activity, the major themes and issues in women's writing, and the distinctive forms and language that may apply in works by women. *NR*

## **LIT 46 INTERCULTURAL LITERATURE**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course examines the literature of people of an emergent culture (defined by gender, ethnicity, race, culture, orientation, or ideology) whose identity and concerns are traditionally ignored or stereotyped by the larger, dominant culture in which it exists. Special emphasis will be placed on the following: (1) the relation between this literature and the traditional literary and critical canon by which it is ignored or marginalized; (2) the way the very existence of such literature challenges the validity of a traditional canon; (3) the way this literature works to define the cultural and personal identity of members of the emergent culture; and (4) the ways this literature works to revise the perception of this culture within the dominant culture. *NR*

## **LIT 48 FILM AND LITERATURE**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

The course analyzes films adapted from literary texts, and the relationship between these films and their source texts. Students read, discuss and analyze texts in order to explore themes, issues, and literary forms used to present them, and then view, discuss, and analyze the film adaptation of the text. Emphasis will be placed on the complex relationship between film and its literary source, especially the challenges of adapting the story from a literary audience to a film audience. Also offered as HUM 74; credit given in either area, not both. *NR*



## **LIT 49 POPULAR LITERATURE**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: WR 201, WR 399, or ESL 201

This course examines a specific genre or theme within the field of popular literature. Students explore the historical, socio-cultural, political, and literary contexts that foster the development of the genre or theme; the critical conversations surrounding the genre or theme; its traditional and emergent conventions; and its impact on audiences and the development of mainstream and genre literature. *NR*

## **LIT 90 RESEARCH IN LITERATURE**

### **1.5 Units - 1.5 hours lecture**

*Transfers: CSU, UC*

This research course offers students the opportunity to develop their ability to develop, state, and support a about a literary text by designing and conducting a faculty-mentored research project to deepen their interest in literature. Students will produce a project that adheres to MLA guidelines which is presented in class or at a student or professional level conference through a paper, oral presentation, or poster presentation. *NR*

# **Management**

## **MGT 1 INTRODUCTION TO BUSINESS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

A survey in business providing a multidisciplinary examination of how culture, society, economic systems, legal, international, political, financial institutions, and human behavior interact to affect a business organization's policy and practices within the US and a global society. Demonstrates how these influences impact the primary areas of business including: organizational structure and design; leadership, human resource management, organized labor practices; marketing; organizational communication; technology; entrepreneurship; legal, accounting, financial practices; the stock and securities market; and therefore affect the ability of a business to achieve its organizational goals. C-ID: BUS 110. *NR*

## **MGT 10 STATISTICS FOR BUSINESS AND ECONOMICS**

### **3 Units - 2.5 hours lecture, 1.5 hours lab**

*Transfers: CSU, UC*

Prerequisite: MATH 253

Recommended Preparation: ECON 1, ECON 1H, ECON 2, or ECON 2H

This introductory course presents statistical concepts and methods used extensively in economics, business, social sciences, psychology, life and health sciences, and education, including computer-based statistical analysis. Students study descriptive and inferential statistics and perform statistical analysis. Emphasis is on problem solving and interpretation. Credit may be earned in MGT 10 or 10H, but not both. Also listed as ECON 10 or 10H; credit may be earned in one course, but not all. *NR*

## **MGT 10H STATISTICS FOR BUSINESS AND ECONOMICS HONORS**

### **3 Units - 2.5 hours lecture, 1.5 hours lab**

*Transfers: CSU, UC*

Prerequisite: MATH 253

Recommended Preparation: ECON 1 or ECON 1H or ECON 2 or ECON 2H strongly recommended

This introductory honors course presents statistical concepts and methods used extensively in economics, business, social

sciences, psychology, life and health sciences, and education including computer-based statistical analysis. Students study descriptive and inferential statistics and perform statistical analysis. Emphasis is on problem solving and interpretation. This honors course is enriched through a course project that applies statistical analysis to a case study and is shared through a class presentation. Credit may be earned in MGT 10 or 10H, but not both. Also listed as ECON 10 or 10H; credit may be earned in one course, not all. *NR*

## **MGT 12A THE LEGAL ENVIRONMENT OF BUSINESS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course introduces the law as an instrument of social and political control in society while focusing on fundamental legal principles pertaining to business transactions, including its effects on managerial decision-making and methods of resolving disputes. Topics include sources of law and ethics, contracts, torts, agency, judicial and administrative processes, employment law, forms of business organizations, and domestic and international governmental regulations. Credit may be earned in either MGT 12A or 12AH, but not both. C-ID: BUS 125. *NR*

## **MGT 12AH THE LEGAL ENVIRONMENT OF BUSINESS HONORS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course introduces the law as an instrument of social and political control in society while focusing on fundamental legal principles pertaining to business transactions, including its effects on managerial decision-making and methods of resolving disputes. Topics include sources of law and ethics, contracts, torts, agency, judicial and administrative processes, employment law, forms of business organizations, and domestic and international governmental regulations. The honors course will be enriched through limited class size, seminar format, and a collaborative project. Credit may be earned in either MGT 12A or 12AH, but not both. C-ID: BUS 125. *NR*

## **MGT 102 PUBLIC SPEAKING FOR BUSINESS**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

This course is designed to increase students' communication skills, both verbal and nonverbal, in business settings. Students will plan, outline, research, organize, prepare, and deliver platform presentations on topics related to business. The course introduces strategies for listening critically, taking a position on a business topic and expressing that position, and adapting presentations to specific audiences. The course also introduces techniques for reducing stress, improving diction, and using visual aids in a business presentation. *NR*

## **MGT 104 BUSINESS COMMUNICATION**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

Prerequisite: WR 1 OR WR 1H

This course is designed to help students develop and refine the written and oral skills necessary to communicate effectively in a business environment. Students plan, compose, and evaluate a variety of written business communications; write reports; make oral presentations; and practice editing and business grammar skills. C-ID: BUS 115. *NR*

## **MGT 105 PERSONAL FINANCIAL PLANNING**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

Recommended Preparation: WR 1 and MATH 253

This course covers the proper management of personal incomes and expenditures using criteria, methodology and resources for effective financial planning. Topics include the study of inflation and business cycles; career planning; money/credit

management; insurance analysis; investment and retirement planning; and tax strategies. The course uses an integrative approach that focuses on practical financial decisions making as well as the social, psychological and physiological contexts in which those decisions are made. Students will examine their relationship with money, set personal goals and develop a plan to meet those goals. MGT 105 is also listed as ECON 105; credit will be given in either area, not both. *NR*

## **MGT 115 DIVERSITY, BUSINESS AND THE WORKPLACE**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

This course examines cultural diversity as a driver of organizational and business success as well as the knowledge, skills, and abilities to lead, manage, and interact effectively within diverse business environments. The course explores the influence that historical, social, and cultural experiences and perspectives have in the work place and reviews existing legislation relevant to workplace diversity. This course is valuable for students that seek leadership positions within multicultural environments. *NR*

## **MGT 120 PRINCIPLES OF BUSINESS MANAGEMENT**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

This course surveys business management principles and practices. It includes a study of organizational theory; planning and control techniques, strategies of organization and control; and the managerial decision-making processes. *NR*

## **MGT 125 ORGANIZATIONAL BEHAVIOR**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

This course explores the application of behavioral theory to management practices in order to help students understand business organizations and to take effective action within them. A key area of focus is developing and applying management skills, which include understanding individual differences and diversity, working effectively in teams, motivating and influencing others, active listening, leadership techniques, and managing organizational change. Discussions explore organizational behavior in a variety of business environments, including businesses of different sizes, (e.g. micro, small, medium, and large); and businesses at different stages of development, (e.g., at start-up, growth, maturity, and decline). *NR*

## **MGT 135 PRINCIPLES OF MARKETING**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

This course is an introduction to the marketing system as it functions within the economy. Course topics include product development, pricing, distribution, and promotion. Students will analyze case studies, examining strategies and tactics that reflect current developments in marketing. *NR*

## **MGT 168 COOPERATIVE WORK EXPERIENCE: MANAGEMENT**

### **1 Unit - 1 hour lab**

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 a certificate. *NR*

## **MGT 168 COOPERATIVE WORK EXPERIENCE: MANAGEMENT**

**2 Units - 2 hours lab**

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 a certificate. *NR*

**MGT 168 COOPERATIVE WORK EXPERIENCE: MANAGEMENT****3 Units - 3 hours lab**

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 a certificate. *NR*

**MGT 168 COOPERATIVE WORK EXPERIENCE: MANAGEMENT****4 Units - 4 hours lab**

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 a certificate. *NR*

**MGT 203 BUSINESS ENGLISH****3 Units - 3 hours lecture**

This course is designed to refine and hone the student's skills in written and spoken English as used in business, professional, or technical settings. The course studies the conventions of English grammar, sentence structure, punctuation, word usage, and style at a professional level and with the precision required in business. *NR*

**MGT 235 ADVERTISING****3 Units - 3 hours lecture**

This course examines the role of advertising in business and introduces an integrated approach to market communications. The course analyzes the various forms of communication, including print, radio and broadcast advertising; sales promotion; public relations; and direct response marketing. It also explores influences on consumer and business audiences, as well as basic strategies for research; media planning and buying; ad creation; and the role of advertising agencies. *NR*

**MGT 268 INTRODUCTION TO INTERNATIONAL BUSINESS****3 Units - 3 hours lecture**

This course is a college-level overview of how traditional business functions are influenced by global cultures, geography, economics, and technology and how globalization generally impacts world markets. Emphasis is on preparing students to do business in the international marketplace. Integrated into the course is an evaluation of domestic and foreign economic and

business issues; international trade; foreign currency exchange; global finance markets; and global, cultural and economic diversities. *NR*

## **MGT 269 INTERNATIONAL MARKETING**

### **3 Units - 3 hours lecture**

This course offers a comprehensive survey of international marketing, addressing participants, opportunities, and cultural considerations. The course focuses on marketing research techniques, strategies, planning, organization, control, and finance as they pertain to the international arena and to management problems. *NR*

## **MGT 282 RETAIL MANAGEMENT**

### **3 Units - 3 hours lecture**

This course provides a comprehensive review of the basic principles of retailing. It includes a study of consumer behavior, product analysis, location and store layout, personnel administration, buying and handling merchandise, financial merchandise planning and management, and promotional strategies. *NR*

## **MGT 288 HUMAN RESOURCE MANAGEMENT**

### **3 Units - 3 hours lecture**

This course introduces the functions of effective human resource management that help organizations achieve success. It emphasizes ways that human resource management can provide a competitive edge for an organization and be a fundamental element of its organizational strategy. The course examines techniques of human resource planning; recruiting, selecting, training, and evaluating personnel; compensation and benefits administration; and union/management relations. *NR*

# **Marine Science**

## **MS 20 INTRODUCTION TO OCEANOGRAPHY**

### **4 Units - 3 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: WR 201, ESL 201 or WR 399

This is an introductory course studying the physical and chemical properties of the ocean. The principles and components of the dynamic ocean system will be surveyed, including the current techniques for measurement of the physical properties of the oceanic environment. The laboratory will focus on the measurement techniques used by oceanographers to discover how the ocean system works. Field trips may be required. *NR*

# **Mathematics**

## **MATH 2 PRE-CALCULUS**

### **5 Units - 5 hours lecture**

*Transfers: CSU, UC*

Prerequisite: Placement by current assessment process or successful completion of MATH 124 with a 'C' or better

Recommended Preparation: Concurrent enrollment in TU 301 strongly recommended

This course is designed for students who seek a better understanding of and preparation for mathematics prior to enrolling in a calculus course. Topics include the complex number system; elementary functions, including polynomial, rational, algebraic, exponential, logarithmic and trigonometric functions; polar coordinates and parametric equations; relations and their graphs; and methods for solving linear and non-linear systems of equations. C-ID: MATH 155. *NR*

## **MATH 3A ANALYTIC GEOMETRY AND CALCULUS I**

### **5 Units - 5 hours lecture**

*Transfers: CSU, UC*

Prerequisite: Placement by current assessment process or successful completion of MATH 2 with a 'C' or better

Recommended Preparation: Concurrent enrollment in TU 301 strongly recommended

This course covers basic concepts of analytic geometry, limits and continuity; and differentiation and integration of algebraic, trigonometric, exponential, logarithmic and hyperbolic functions. Applications include related rates and optimization problems. L'hospital's rule is studied. Credit may be earned in MATH 3A or 3AH, but not both. C-ID: MATH 211. *NR*

## **MATH 3AH ANALYTIC GEOMETRY AND CALCULUS I HONORS**

### **5 Units - 5 hours lecture**

*Transfers: CSU, UC*

Prerequisite: Placement by current assessment process or successful completion of MATH 2 with a 'C' or better and scoring at least 80% on the MATH 3AH Placement Test

Recommended Preparation: Concurrent enrollment in TU 301 strongly recommended

This course covers basic concepts of analytic geometry, limits and continuity; and differentiation and integration of algebraic, trigonometric, exponential, logarithmic and hyperbolic functions. Applications include related rates and optimization problems. L'hospital's rule is studied. This is the Honors version of MATH 3A. It covers the above topics in a more thorough and rigorous manner and covers more realistic applications in greater detail. Research projects are used to explore connections with other sciences. Credit may be earned in MATH 3A or 3AH, but not both. C-ID: MATH 211. *NR*

## **MATH 3B ANALYTIC GEOMETRY AND CALCULUS II**

### **5 Units - 5 hours lecture**

*Transfers: CSU, UC*

Prerequisite: Placement by current assessment process or successful completion of MATH 3A or 3AH with a 'C' or better

Recommended Preparation: Concurrent enrollment in TU 301 strongly recommended

This course continues the study of single-variable differential and integral calculus begun in Math 3A. It covers techniques of integration; applications of integration; parametric and polar equations; and improper integrals. Sequences, infinite series, power series and Taylor's formula are studied. Credit may be earned in either MATH 3B or 3BH, but not both. C-ID: MATH 221. *NR*

## **MATH 3BH ANALYTIC GEOMETRY AND CALCULUS II HONORS**

### **5 Units - 5 hours lecture**

*Transfers: CSU, UC*

Prerequisite: Placement by current assessment process or successful completion of MATH 3A or 3AH with a 'C' or better and scoring at least 80% on the MATH 3BH Placement Test

Recommended Preparation: Concurrent enrollment in TU 301 strongly recommended

This course continues the study of single-variable differential and integral calculus begun in Math 3A. It covers techniques of integration applications of integration; parametric and polar equations; and improper integrals. Sequences, infinite series, power series and Taylor's formula are studied. This is the Honors version of Math 3B. It covers the above topics in a more thorough and rigorous manner and covers more realistic applications in greater detail. Research projects are used to explore connections with other sciences. Credit may be earned in either MATH 3B or 3BH, but not both. C-ID: MATH 221. *NR*

## **MATH 4A ANALYTIC GEOMETRY AND CALCULUS III**

### **5 Units - 5 hours lecture**

*Transfers: CSU, UC*

Prerequisite: Placement by current assessment process or successful completion of MATH 3B or 3BH with a 'C' or better

Recommended Preparation: Concurrent enrollment in TU 301 strongly recommended

This course studies vectors and parametric equations, partial differentiation, functions of two or more variables, gradients, higher-order derivatives, multiple integrals, cylindrical and spherical coordinates, vector functions and their derivatives, vector fields, surface and line integrals, the theorems of Green and Stokes, and the Divergence Theorem. MATH 4A may be taken concurrently with MATH 24 and/or MATH 26. C-ID: MATH 230. *NR*

## **MATH 8 COLLEGE ALGEBRA**

### **5 Units - 5 hours lecture**

*Transfers: CSU, UC*

Prerequisite: Placement by current assessment process or successful completion of MATH 253 with a 'C' or better

Recommended Preparation: Concurrent enrollment in TU 301 strongly recommended

This course examines algebraic topics and elementary functions for those seeking preparation prior to enrolling in a calculus course for non-STEM majors. Course topics include equations and inequalities, relations and functions, polynomial and rational functions, exponential and logarithmic functions, matrices and determinants, sequences and series, limits, the binomial expansion, and curve sketching techniques. C-ID: MATH 150. *NR*

## **MATH 10 INTRODUCTION TO STATISTICS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Prerequisite: Placement by current assessment process or successful completion of MATH 253 with a 'C' or better

Recommended Preparation: Concurrent enrollment in TU 301 strongly recommended

This course teaches students to collect, organize and describe data using graphical and numerical techniques. Students study the measures of central tendency, dispersion, and correlation; laws of probability; and laws of statistical estimation, including the use of z-, t-, Chi-square-, and F-distributions to perform confidence intervals and hypothesis testing. Students use a calculator and/or computer to make measurements on a set of data. The course stresses the application of statistical analysis to the natural, social, and business sciences and to the understanding and use of numerical data by the general public. C-ID: MATH 110. *NR*

## **MATH 11 A BRIEF COURSE IN CALCULUS**

### **4 Units - 4 hours lecture**

*Transfers: CSU, UC*

Prerequisite: Placement by current assessment process or successful completion of MATH 8 with a 'C' or better

Recommended Preparation: Concurrent enrollment in TU 301 strongly recommended

This course focuses on the application of concepts in calculus to business, economics, and the social and biological sciences. Topics include limits, derivatives, integrals, and differential equations as applied to functions of one or more variables. The course is designed for students who need only one semester of calculus. C-ID: MATH 140. *NR*

## **MATH 20 MATHEMATICS FOR ELEMENTARY TEACHERS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Prerequisite: Placement by current assessment process or successful completion of MATH 253 with a 'C' or better

Recommended Preparation: Concurrent enrollment in a section of TU 301 designated for the use of the Math Center strongly recommended.

This course is designed for current and prospective teachers who seek to improve their knowledge of elementary mathematics. Topics covered include: problem-solving techniques; numeration and whole numbers; integers, rational numbers and real numbers; ratios, proportions, decimals and percents; set theory; elementary number theory. MATH 20 was formerly offered as MATH 120. *NR*

## **MATH 24 ELEMENTARY DIFFERENTIAL EQUATIONS**

**4 Units - 4 hours lecture**

*Transfers: CSU, UC*

Prerequisite: Placement by current assessment process or successful completion of MATH 3B or 3BH with a 'C' or better

Recommended Preparation: Concurrent enrollment in TU 301 strongly recommended

This course includes the study of first-order differential equations; second- and higher-order linear differential equations; equations with constant coefficients; the Laplace transform; systems of equations; series solutions; and the numerical methods of solutions with applications to physics and engineering. MATH 24 may be taken concurrently with MATH 26 and/or MATH 4A. Credit may be earned in either MATH 24 or MATH 24H, but not both. C-ID: MATH 240. *NR*

**MATH 24H ELEMENTARY DIFFERENTIAL EQUATIONS HONORS****4 Units - 4 hours lecture**

*Transfers: CSU, UC*

Prerequisite: Placement by current assessment process or successful completion of MATH 3B or 3BH with a 'C' or better

Recommended Preparation: Concurrent enrollment in TU 301 strongly recommended

This course includes the study of first-order differential equations; second- and higher-order linear differential equations; equations with constant coefficients; the Laplace transform; systems of equations; series solutions; and the numerical methods of solutions with applications to physics and engineering. This is the Honors version of MATH 24. It covers the above topics in a more rigorous manner and covers more realistic applications in greater detail. Research projects are used to explore connections with physics and engineering and to model and solve real world applications. MATH 24H may be taken concurrently with MATH 26 or MATH 4A. Credit may be earned in either MATH 24 or 24H, but not both. C-ID: MATH 240. *NR*

**MATH 26 INTRODUCTION TO LINEAR ALGEBRA****4 Units - 4 hours lecture**

*Transfers: CSU, UC*

Prerequisite: Placement by current assessment process or successful completion of MATH 3B or 3BH with a 'C' or better

Recommended Preparation: Concurrent enrollment in TU 301 strongly recommended

This course introduces the concepts of linear algebra. Studies include vectors; vector spaces and subspaces; matrices; systems of linear equations; dimension; determinants; eigenvalues and eigenvectors; and linear transformations and their applications. MATH 26 may be taken concurrently with MATH 24 or MATH 4A. C-ID: MATH 250. *NR*

**MATH 30 COMPUTER DISCRETE MATHEMATICS I****3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Prerequisite: Placement by current assessment process or successful completion of MATH 2 with a 'C' or better

This course is designed primarily for computer science majors. Areas of study include logic, proofs, basic structures, algorithms, integers, matrices, induction, recursion, counting principles, discrete probability, inclusion-exclusion, and graphs and trees. This course is also listed as CS 6A; credit will be given in either area, not both. C-ID: COMP 152. *NR*

**MATH 31 COMPUTER DISCRETE MATHEMATICS II****3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Prerequisite: Placement by current assessment process or successful completion of MATH 2 with a 'C' or better

This course is designed primarily for computer science majors. Major topics include propositional logic, proofs, relations, graphs, trees, Boolean Algebra, and modeling computation. This course is also listed as Computer Science 6B; credit will be given in either area, not both. *NR*

**MATH 105 MATHEMATICS FOR LIBERAL ARTS STUDENTS**



### **3 Units - 3 hours lecture**

*Transfers: CSU*

Prerequisite: Placement by current assessment process or successful completion of MATH 253 with a 'C' or better

Recommended Preparation: Concurrent enrollment in TU 301 strongly recommended

This course examines the nature of mathematics and its role in society, history of mathematical ideas and methods and the use of mathematics in problem solving. The major categories of mathematics will be studied including probability, graph theory, codes and coding, and mathematics as applied to the sciences, social sciences, and other disciplines, and to real-world consumer applications. *NR*

## **MATH 124 TRIGONOMETRY**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

Prerequisite: Placement by current assessment process or successful completion of MATH 253 with a 'C' or better

Recommended Preparation: Concurrent enrollment in TU 301 strongly recommended

This course introduces circular and trigonometric functions, their inverses and interrelationships, focusing on both the unit circle and right triangle methodologies. Topics include graphing, conditional equations, laws of sines and cosines, vectors, complex numbers, polar coordinates, and DeMoivre's Theorem. *NR*

## **MATH 253 INTERMEDIATE ALGEBRA**

### **5 Units - 5 hours lecture**

Prerequisite: Placement by current assessment process or successful completion of MATH 353 with a 'C' or better

Recommended Preparation: Concurrent enrollment in TU 301 strongly recommended

This course is the continuation of elementary algebra and is intended to prepare students for subsequent math classes. It includes the study of the real number system, open sentences in one variable, polynomials, factoring, systems of linear equations, rational numbers, and functions. The course also covers irrational and complex numbers, quadratic equations and functions, exponential and logarithmic functions, and quadratic relations and systems. *NR*

## **MATH 310 PRE-STATISTICS**

### **5 Units - 5 hours lecture**

Prerequisite: Placement by current assessment process or successful completion of MATH 351 with a 'C' or better

Recommended Preparation: Concurrent enrollment in TU 301 strongly recommended.

This course is designed for non-STEM (Science, Technology, Engineering and Math) students who seek a better understanding of and preparation for mathematics prior to enrolling in statistics. Topics include arithmetic computations; set notation and Venn diagrams; percents, ratios and proportions; basic graphs and data analysis; linear equations and inequalities; functions; systems of linear equations; exponents and polynomials; roots and radicals basics; and basic exponential and logarithmic functions. *NR*

## **MATH 350A WHOLE NUMBERS MODULE**

### **0.5 Unit - 0.5 hour lecture**

Recommended Preparation: Concurrently enrollment in TU 301 is strongly recommended.

MATH 350A includes a series of online instructional videos and exercises. This module defines whole numbers and introduces operations, rounding, and order of operations with whole numbers using a problem-solving approach. This course is offered pass/no-pass only. *NR*

## **MATH 350B FRACTIONS PART 1 MODULE**

### **0.5 Unit - 0.5 hour lecture**

Recommended Preparation: Concurrently enrollment in TU 301 is strongly recommended.

MATH 350B includes a series of online instructional videos and exercises. This module defines fractions and mixed numbers and

introduces multiplication and division with fractions and mixed numbers using a problem-solving approach. This course is offered pass/ no-pass only. *NR*

## **MATH 350C FRACTIONS PART 2 MODULE**

### **0.5 Unit - 0.5 hour lecture**

Recommended Preparation: Concurrently enrollment in TU 301 is strongly recommended.

MATH 350C includes a series of online instructional videos and exercises. This module introduces addition and subtraction of fractions and mixed numbers, their comparison, and applications of the order of operations using a problem-solving approach. This course is offered pass/no-pass only. *NR*

## **MATH 350D DECIMALS MODULE**

### **0.5 Unit - 0.5 hour lecture**

Recommended Preparation: Concurrently enrollment in TU 301 is strongly recommended.

MATH 350D includes a series of online instructional videos and exercises. This module defines decimals, introduces operations, rounding and order of operations with decimals using a problem-solving approach. This course is offered pass/no-pass only. *NR*

## **MATH 350E RATIOS AND PROPORTIONS MODULE**

### **0.5 Unit - 0.5 hour lecture**

Recommended Preparation: Concurrently enrollment in TU 301 is strongly recommended.

MATH 350E includes a series of online instructional videos and exercises. This module defines ratios and proportions using a problem-solving approach. This course is offered pass/no-pass only. *NR*

## **MATH 350F PERCENTS PART 1 MODULE**

### **0.5 Unit - 0.5 hour lecture**

Recommended Preparation: Concurrently enrollment in TU 301 is strongly recommended.

MATH 350F includes a series of online instructional videos exercises. This module defines percents, introduces conversions of decimals and fractions into percents and vice a versa, and uses percents in solving word problems. This course is offered pass/ no-pass only. *NR*

## **MATH 350G PERCENTS PART 2 MODULE**

### **0.5 Unit - 0.5 hour lecture**

Recommended Preparation: Concurrently enrollment in TU 301 is strongly recommended.

MATH 350G includes a series of online instructional videos and exercises. This module covers applications of percents, including calculating percentage increases and decreases, sales tax, commissions, discounts, and interest using a problem-solving approach. This course is offered pass/no-pass only. *NR*

## **MATH 350H MEASUREMENT AND GEOMETRY**

### **0.5 Unit - 0.5 hour lecture**

Recommended Preparation: Concurrently enrollment in TU 301 is strongly recommended.

MATH 350H includes a series of online instructional videos and exercises. This module covers the conversions within and between the British and metric units of measurement as well as procedures to calculate perimeter, circumference, area and volume using a problem-solving approach. This course is offered pass/ no-pass only. *NR*

## **MATH 351 ARITHMETIC REVIEW AND PRE-ALGEBRA MATHEMATICS**

**3 Units - 3 hours lecture**

Corequisite: MATH 351L

Recommended Preparation: MATH 350A, MATH 350B, MATH 350C, MATH 350D, MATH 350E, MATH 350F, MATH 350G or MATH 350H

This course reviews the fundamentals of arithmetic computation with whole numbers, fractions, and decimals. Students focus on developing estimating skills and solving a variety of problems using ratios and proportions, percents, measurements in US and metric units, and geometric formulas. The course is designed for students who need a rapid review before taking a more advanced mathematics course. *NR*

**MATH 351L MATH 351 LEARNING ASSISTANCE****0 Units - 1 hour learning center**

Corequisite: MATH 351

This zero-unit, open-entry/open-exit course provides supplemental learning assistance to students concurrently enrolled in MATH 351. *R-E-99*

**MATH 353 ELEMENTARY ALGEBRA****5 Units - 5 hours lecture**

Prerequisite: Placement by current assessment process or successful completion of MATH 351 with a 'C' or better

Corequisite: MATH 353L

This is the first course in algebra. The course introduces signed numbers, equations and inequalities, graphs, linear equations, functions, and polynomials. Students perform arithmetic operations with a real numbers and algebraic expressions; graph and solve linear equations and inequalities; and perform algebraic operations with polynomials, rational expressions, and equations. This course is similar to the first year of high school algebra. *NR*

**MATH 353L MATH 353 LEARNING ASSISTANCE****0 Units - 1 hour learning center**

Corequisite: MATH 353

This zero-unit, open-entry/open-exit course provides supplemental learning assistance to students concurrently enrolled in MATH 353. *R-E-99*

## Mathematics: Special Services

**MSS 325 BASIC ARITHMETIC SKILLS****3 Units - 3 hours lecture**

*Limitation: Placement in this course is based on learning disability assessment, eligibility, and an individual education plan*

Although this course is open to anyone, it is designed for students with learning disabilities who need to review the fundamentals of arithmetic computation. Course topics include adding, subtracting, multiplying, and dividing whole numbers and fractions; converting fractions, decimals, and percents; solving word problems; and calculating ratios and proportions. *NR*

## Music

**MUS 1 THE BASICS OF MUSIC****3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course is a study of the basic principles and structures of music, including rhythm and pitch notation, basic properties of the sound, counting, major and minor scales, key signatures, intervals, triads and dominant seventh chords. It is designed to develop the student's basic skills in music reading, sight singing, and aural identification, as well as handwritten notation. The course is recommended for music majors but is open to all students. Credit may be earned in either MUS 1 or MUS 1H, but not both. C-ID: MUS 110. *NR*

## **MUS 1H THE BASICS OF MUSIC HONORS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This honors course is a study of the basic principles and structures of music, including rhythm and pitch notation, basic properties of the sound, counting, major and minor scales, key signatures, intervals, triads and dominant seventh chords. It is designed to develop the student's basic skills in music reading, sight singing, and aural identification, as well as handwritten notation. This honors course will be enriched through limited class size, seminar format, more extensive reading and research assignments, and a songwriting project. Credit may be earned in either MUS 1 or MUS 1H, but not both. C-ID: MUS 110. *NR*

## **MUS 2H MUSIC THEORY AND CULTURE HONORS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC credit pending*

This course gives students opportunity to learn music theory from a beginning stage with a historical and global cultural approach. Students develop their capacity to create exercises of their own and learn the material by appreciating the cultural aspect. Musical elements such as rhythm, pitch, form, basic chord progressions, timbre, and texture are covered in musical literature. This course is a beginning level and no knowledge of music is required. This honors course includes music theory materials with a greater emphasis on applications. Concert attendance may be required. C-ID: MUS 110. *NR*

## **MUS 3 HARMONY I**

### **4 Units - 4 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: MUS 1

This course is required for music majors and involves an intensive study of diatonic harmony in major and minor modes, roman numeral analysis of chords and their voice leading; figured bass symbols, part-writing using root position triads and dominant seventh chord; harmonization of the given melody with non-chord tones, triads, seventh chords, inversions of triads and seventh chords, three types of six-four chords, tonal harmonic progressions, and cadences. The student will study the writing of diatonic melodies and harmonies. Sight-singing, keyboard harmony, ear training and dictation are included. C-ID: MUS 120. *NR*

## **MUS 4 HARMONY II**

### **4 Units - 4 hours lecture**

*Transfers: CSU, UC*

Prerequisite: MUS 3

Intense study of diatonic harmony in major and minor modes including non-chord tones, treatment of seventh chords, secondary functions and modulations to relative as well as closely related keys. The student will study the writing of two part counterpoint, singing, and recognition of diatonic single melodies as well as four-part harmony. Sight-singing, keyboard harmony, ear training and dictation are included. C-ID: MUS 130. *NR*

## **MUS 5 HARMONY III**

### **4 Units - 4 hours lecture**

*Transfers: CSU, UC*

Prerequisite: MUS 4

This course studies chromatic harmonic elements (secondary functions, modulatory techniques, mode mixture, Neapolitan

chords, augmented chords, augmented sixth chords, and enharmonic spellings). Students will study the application of these chromatic harmonic elements in musical masterworks of the second half of the nineteenth century; analyze the usage of chromatic chords, their preparation and resolution; and create examples of chromatic writing. The course will include sight-singing, ear training, keyboard harmony and dictation of chromatic melodies, harmonic dictation of two, three and four-part textures, and rhythmic dictation. This course is required for all music majors. C-ID: MUS 140. *NR*

## **MUS 6 HARMONY IV**

### **4 Units - 4 hours lecture**

*Transfers: CSU, UC*

Prerequisite: MUS 5

This course studies harmony of the twentieth and twenty-first centuries focusing on different techniques including ninth, eleventh, and thirteenth chords; Impressionism; church modes, altered harmony; secundal and quartal harmony; polychord construction and polytonal concepts; twelve-tone system; minimalism; chance music; neotonalism; and sound mass. Students are required to compose short musical fragments and complete presentations on composers who developed these topics and/or compose pieces of music involving one or more of these techniques. Musicianship (ear training, dictation, keyboard harmony, and sight-singing) is included. This course is required of all music majors. C-ID: MUS 150. *NR*

## **MUS 7 POP SONG WRITING**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: MUS 1

Study and training on the usage of the traditional musical elements necessary to build popular songs. The elements include intervals, chords, chord progressions, scales, modes, rhythms, meters, cadences, modulations, structures, melodic treatment, and the relationship between lyrics and music. *NR*

## **MUS 20 MUSIC APPRECIATION**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course introduces skills for listening to music, with an emphasis on the Euro-Western classical music traditions. Students will learn to identify components of music such as meter, texture, tempo, dynamics, orchestration and style characteristics. Students will also learn biographical information regarding significant composers, as well as cultural, economic, political, religious, and social contexts in which these traditions have existed. May require attendance at live concerts. Credit may be earned in either MUS 20 or MUS 20H, but not both. C-ID: MUS 100. *NR*

## **MUS 20H MUSIC APPRECIATION HONORS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course introduces skills for listening to music, with an emphasis on Euro-Western classical music traditions. Students will learn to identify components of music such as meter, texture, tempo, dynamics, orchestration and style characteristics. Students will also learn biographical information regarding significant composers, as well as cultural, economic, political, religious, and social contexts in which these traditions have existed. May require attendance at live concerts. Students in this Honors course will also learn biographical information on secondary composers, listen to and discuss additional repertoire, and write a term paper on a genre or composer. Credit may be earned in either MUS 20 or 20H, but not both. C-ID: MUS 100. *NR*

## **MUS 21 WORLD MUSIC**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course introduces skills for listening to music within both Western and non-Western musical traditions. Students study vocal

and instrumental traditions, as well as musical components such as tempo, dynamics, texture, orchestration, form, and style characteristics. Students also consider historical, cultural, socio-economic, religious, and/or political contexts and issues that bear upon the music. Attendance at live concerts may be required. *NR*

## **MUS 27 HISTORY OF JAZZ**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course introduces the history and development of musical styles, genres, forms, techniques, musicians, and the social-political, and economic contexts of jazz. Emphasis is on history, musicians, the nature of the styles, and the various other contexts of jazz. May require attendance at live concerts. *NR*

## **MUS 28 HISTORY OF ROCK MUSIC**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course traces the development and history of rock music in the United States. Students study musical, sociological and political aspects of rock music as well as important people, ensembles, and institutions of the genre. The course includes a general study of musical elements such as melody, harmony, rhythm and orchestration as they pertain to the diverse styles of rock music. Attendance at live concerts may be required. *NR*

## **MUS 38 IRVINE VALLEY CHORALE**

### **2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: Prior completion of or concurrent enrollment in MUS 1

The Chorale focuses on the rehearsal and performance of repertoire for mixed voices both a cappella and accompanied, from a variety of style periods, and in a variety of languages. Public performance is required for credit. *NR*

## **MUS 39 IRVINE VALLEY MASTER CHORALE**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

*Limitation: By audition only*

Recommended Preparation: Prior completion of or concurrent enrollment in MUS 1

The Chorale focuses on the study, rehearsal, and performance of repertoire for mixed voices both a cappella and accompanied, from a variety of style periods, and in a variety of languages with an emphasis on the development of individual musicianship and the skills needed to perform within an ensemble. Public performance, both on and off campus, in formal concerts, is required for credit. C-ID: MUS 180. *R-E-3*

## **MUS 40 WIND SYMPHONY**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

*Limitation: Not a beginning instruments course. Students must have previous band or orchestral wind or percussion instrument training and experience.*

The Wind Symphony performs wind and percussion literature from the Renaissance, Baroque, Classical, and Romantic periods, as well as twentieth century and contemporary works including, the performance of both professional and student new compositions. The repertoire varies each semester. Instrumentation will vary according to the demands of the literature. The emphasis is on a high degree of individual musicianship and the skills needed to within an ensemble. Participation in formal concerts, both on and off campus, is required. C-ID: MUS 180. *R-E-3*

## **MUS 42 SYMPHONY ORCHESTRA**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

*Limitation: Not a beginning instruments course. The student must already have played string, wind or percussion instrument in an orchestra.*

The Symphony Orchestra performs orchestral repertoire from the Renaissance, Baroque, Classical, and Romantic periods, as well as twentieth century and contemporary works including, the performance of both professional and student new compositions. The repertoire varies each semester. Instrumentation will vary according to the demands of the literature. The emphasis is on a high degree of individual musicianship and the skills needed to perform within an ensemble. Participation in formal concerts, both on and off campus, is required. C-ID: MUS 180. R-E-3

## **MUS 44 GUITAR ENSEMBLE**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

*Limitation: Students must have previous classical guitar training. Not a beginning instruments course.*

The Guitar Ensemble performs repertoire for multiple guitars in both large and small ensembles, from Renaissance music to contemporary literature, including the performance of both professional and student new compositions. Emphasis is on a high degree of individual musicianship, sight-reading, and ensemble performance. Participation in formal concerts, both on and off campus, is required. R-E-3

## **MUS 46 JAZZ ENSEMBLE**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

*Limitation: By audition only.*

Not a beginning instruments course. Students should have previous experience playing saxophone, trumpet, trombone, keyboard or rhythm section instruments. The Jazz Ensemble focuses on the rehearsal and performance of standard jazz specific repertoire for big band ensembles ranging from swing to contemporary genres including the performance of both professional and student new compositions. The repertoire varies each semester. Instrumentation will vary according to the demands of the repertoire. The emphasis is on a high degree of individual musicianship and the skills needed to perform within an ensemble. Participation in formal concerts, both on and off campus, is required. C-ID: MUS 180. R-E-3

## **MUS 50 APPLIED MUSIC: INSTRUMENTAL**

### **0.5 Unit - 1.5 hours lab**

*Transfers: CSU, UC*

Corequisite: MUS 53

*Limitation: By audition only*

This course provides one half-hour individual lesson per week in a traditional band or orchestral instrument or classical guitar with an instructor on the Applied Music faculty. A performance for a faculty jury is required at the end of the semester. The course is designed for the music major whose performance ability is at a college level. The emphasis is on the progressive development of skills needed for solo performance. R-E-3

## **MUS 51 APPLIED MUSIC: KEYBOARD**

### **0.5 Unit - 1.5 hours lab**

*Transfers: CSU, UC*

Corequisite: MUS 53

*Limitation: By audition only*

This course provides one individualized keyboard lesson per week with an instructor on the Applied Music faculty. Performances for a faculty jury will be required at the end of the semester. The course is designed for the music major whose performance

ability is at a college level. The emphasis is on the progressive development of skills needed for solo performance. Students will be required to attend concerts. *R-E-3*

## **MUS 52 APPLIED MUSIC: VOICE**

### **0.5 Unit - 1.5 hours lab**

*Transfers: CSU, UC*

Corequisite: MUS 53

*Limitation: By audition only*

This course provides one half-hour individual voice lesson per week with an instructor on the Applied Music faculty.

Performances for a faculty jury will be required at the end of the semester. The course is designed for the music major whose performance ability is at a college level. The emphasis is on the progressive development of skills needed for solo performance. *R-E-3*

## **MUS 53 APPLIED MUSIC PERFORMANCE WORKSHOP**

### **0.5 Unit - 1.5 hours lab**

*Transfers: CSU, UC*

MUS 53 is required of all auditioned music majors enrolled in MUS 50, MUS 51 or MUS 52. It is designed to teach, train and prepare students for a successful career in music. Students are required to perform repertoire or exercises associated with their Applied Music area, critique the performances of their peers, and plan for, manage and achieve success both while in college and beyond college. Students also participate in and attend concerts, recitals and master classes; organize and prepare programs; critique each others' performances, learn how to manage and execute all aspects of pre- and post-performance production, listen to presentations from and meet with professional musicians and IVC music alumni and learn to apply expected professional standards and obligations of being a professional in the many related professions. *R-E-3*

## **MUS 54 PIANO I**

### **2 Units - 1.5 hours lecture, 1.5 hours lab**

*Transfers: CSU, UC*

This course provides group piano instruction for beginners. It emphasizes basic technical and interpretive skills. The course presents the foundations of keyboard musicianship, including standard music notation; pentascales; and tonic, dominant and subdominant harmonies. Practice outside of class and concert attendance are required. Practice pianos are available on campus. Students are limited to enrollment in four piano courses (MUS 54, 55, 56, 57, 62, or 65) for a maximum of 8 units. *NR*

## **MUS 55 PIANO II**

### **2 Units - 1.5 hours lecture, 1.5 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: MUS 54

This course provides group piano instruction for second semester piano students. It introduces short classical repertoire, continues the development of technical and interpretive skills, and expands upon the foundations of keyboard musicianship. Regular practice outside of class and concert attendance are required. Practice pianos are available on campus. Students are limited to enrollment in four piano courses (MUS 54, 55, 56, 57, 62, or 65) for a maximum of 8 units. *NR*

## **MUS 56 PIANO III**

### **2 Units - 1.5 hours lecture, 1.5 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: MUS 55

This course provides group piano instruction at the intermediate level. Students focus on the performance of repertoire from the Baroque, Classical, Romantic, and Modern periods, as well as popular compositions. The course stresses various aspects of piano technique, including major and minor scales; arpeggios in three octaves; keyboard harmonizations; and stylistic interpretation.



Regular practice outside of class and concert attendance are required. Practice pianos are available on campus. Students are limited to enrollment in four piano courses (MUS 54, 55, 56, 57, 62, or 65) for a maximum of 8 units. *NR*

## **MUS 57 PIANO IV**

**2 Units - 1.5 hours lecture, 1.5 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: MUS 56

This course provides group instruction in piano at the advanced level. The course focuses on the historical background and theoretical structure of works from the Baroque, Classical, Romantic, and Modern periods; and on the analysis and criticism of each performance through teacher and group discussion. Preparation for performances includes research and listening in addition to much practice. Students strengthen and refine skills in style, interpretation, and technique, participating in both individual and group assignments. Practice and recital attendance are required. Practice pianos are available on campus. Students are limited to enrollment in four piano courses (MUS 54, 55, 56, 57, 62, or 65) for a maximum of 8 units. *NR*

## **MUS 59 PIANO PERFORMANCE AND ENSEMBLE**

**1 Unit - 3 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: MUS 57

The Piano Performance Ensemble performs solo and collaborative repertoire from Baroque to contemporary commissioned works. Instrumentation will vary according to the demands of the literature. The emphasis is on the development of individual musicianship and collaborative playing. Participation in formal concerts is required. *R-E-3*

## **MUS 62 COLLABORATIVE PIANO**

**1.5 Units - 1 hour lecture, 2 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: MUS 59

This course studies the techniques of instrumental and vocal collaboration. An overview of chamber music repertoire will be reviewed. Particular emphasis will be given to style, interpretation and techniques of collaborative playing and sight-reading. Students are limited to enrollment in four piano courses (MUS 54, 55, 56, 57, 62, or 65) for a maximum of 8 units. *NR*

## **MUS 65 PIANO ACCOMPANYING**

**1.5 Units - 1 hour lecture, 1.5 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: MUS 59

This course is designed to give students experience and technique for instrumental and vocal accompaniment. Students will perform a variety of pieces in class, receiving critique on balance, phrasing, and tempos. Students will be coached on watching and following soloists, rehearsal practices, and how to support the soloist throughout the process of performing. In the class, there will be mock experiences where students will have to adapt to soloists that skip sections, get lost, or need additional support during a concert. Emphasis will also be given to style, interpretation and techniques of accompanying and sight-reading. Students are limited to enrollment in four piano courses (MUS 54, 55, 56, 57, 62, or 65) for a maximum of 8 units. *NR*

## **MUS 80 VOICE I**

**2 Units - 1.5 hours lecture, 1.5 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: MUS 1

This course introduces students to vocal techniques for the unamplified voice, with a special emphasis on body alignment; breathing; and free, efficient tone production. Students perform vocal literature from a variety of cultures and genres, including art songs, folk songs, and songs of the musical theatre. Concert attendance may be required. *NR*

## **MUS 81 VOICE II**

**2 Units - 1.5 hours lecture, 1.5 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: Prior completion of MUS 80.

This course provides continued instruction in vocal techniques for the unamplified voice, with a special emphasis on registration, resonance, and performance considerations. Students perform in class vocal literature for a variety of genres, including art songs, folk songs, and songs of the musical theatre. The course introduces repertoire in English, as well as Italian and other Romance languages. Concert attendance may be required. *NR*

## **MUS 82 VOICE III**

**2 Units - 1.5 hours lecture, 1.5 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: Prior completion of MUS 81.

This course is designed to give singers regular opportunities to perform in class and in public. Students concentrate on applying strategies to further enhance diction, breath support, care of the voice, and expression. They evaluate their own singing technique and receive written and verbal feedback from each other and the instructor. The focus of the repertoire varies each time the course is offered. Attendance at concerts may be required. *NR*

## **MUS 83 GUITAR I**

**2 Units - 1.5 hours lecture, 1.5 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: Prior completion of or concurrent enrollment in MUS 1

This is a course emphasizing beginning guitar techniques and repertoire focused on the first position. Topics include playing position, tuning, free and rest strokes, alternation, naming of fingers, chords, and arpeggios. The student is introduced to musical notation, time and counting. In the study of the first position, the student is exposed to sharps, flats, natural signs, and key signatures. Students will perform two-part pieces. The course is designed for beginning guitarists and/or guitarists with no music reading background. Field trips may be required. *NR*

## **MUS 84 GUITAR II**

**2 Units - 1.5 hours lecture, 1.5 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: MUS 83

This is a course emphasizing guitar level II techniques and repertoire. Topics include chords, music in two lines, ligado techniques, dotted notes, dynamic markings, and tempo indications. The student will be introduced to Renaissance, Baroque, Classical, Romantic, and Modern pieces in the 2nd through 4th positions. This course is designed for intermediate guitarists with some music reading background. Field trips may be required. *NR*

## **MUS 85 GUITAR III**

**2 Units - 1.5 hours lecture, 1.5 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: MUS 84

MUS 85 emphasizes guitar techniques, repertoire and interpretation for playing in the 5th through 7th positions. Topics include reading in the higher positions, contrapuntal music, harmonics, and ornamentation. The student will study and play a variety of exercises and repertoire representative of the Renaissance, Baroque, Classical, Romantic, and Modern periods as well as selected compositions from the modern folk and pop music genre. The course is designed for those guitarists who are approaching advanced levels with a strong music reading background. Field trips may be required. *NR*

## **MUS 86 CLASSICAL GUITAR IV**

**2 Units - 1.5 hours lecture, 1.5 hours lab**

*Transfers: CSU, UC*

This is a course emphasizing advanced classical guitar techniques, repertoire, interpretation, history and performance practice as it relates to the various style periods. The course is designed to take the student to the next level of both technique and musicianship. Topics include reading in the higher positions, contrapuntal music, harmonics (natural and artificial), ornamentation and improvisation. The student will study Renaissance, Baroque, Classical, Romantic and Modern pieces in all positions. Further topics include accompanying techniques, reading from figured bass and other continuo skills. Alternate tunings including various open tunings will be discussed. This course includes solo and small ensemble repertoire as well as repertoire for large ensembles of multiple guitars. *NR*

## **MUS 87 JAZZ AND POPULAR VOICE**

**2 Units - 1.5 hours lecture, 1.5 hours lab**

*Transfers: CSU, UC*

Prerequisite: MUS 180

Recommended Preparation: MUS 1

Introduction to the study and performance of songs in the popular and jazz idioms. Topics include vocal production, microphone techniques, and styles. Includes in-class performance. *NR*

## **MUS 112 INTRODUCTION TO MUSIC TECHNOLOGY**

**2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU*

Recommended Preparation: MUS 1 and MUS 3

This course provides instruction on currently used electronic equipment such as computers, synthesizers, mixing boards, microphones and Musical Instrument Digital Interface (MIDI). Students learn how to operate these equipment using the computer as a controller with current software. Emphasis is placed on technical aspects with a creative approach. *NR*

## **MUS 113 INTRODUCTION TO MUSIC BUSINESS**

**2 Units - 2 hours lecture**

*Transfers: CSU*

This course presents an overview of the business and legal aspects of the music industry. Topics include: record contracts, publishing, licensing, distribution, and copyright. In addition, the duties and responsibilities of producers, agents, managers, promoters and performing artists will be covered extensively. *NR*

## **MUS 255 BEGINNING PIANO PEDAGOGY**

**3 Units - 3 hours lecture, 1 hour lab**

Recommended Preparation: MUS 57, MUS 59, or minimum of four years of piano studies.

MUS 255 examines a variety of published pedagogy methods and music conservatory traditions for teaching beginning piano. Students study pedagogy tools, music education software, music games, and pedagogy traditions from around the world such as the Kodaly Method, Dalcroze Eurhythmics, and Suzuki Method. This course will emphasize how to set up the hand position of a beginning student as well as varying approaches to teaching musical expression. It will discuss different learning modalities and how to work with students with special needs. Students will create lesson plans for private and group instruction for different age groups and will be evaluated on their teaching. Guest teachers will present monthly on varying topics. Students will be required to observe master teachers. *NR*

## **MUS 256 INTERMEDIATE AND ADVANCED PIANO PEDAGOGY**

**3 Units - 3 hours lecture, 1 hour lab**

Recommended Preparation: MUS 57, MUS 59, or minimum of 4 years of piano studies.

This course examines a variety of published pedagogy methods and music conservatory traditions for teaching intermediate and advanced piano. Students will study pedagogy tools and traditions from around the world. This course will emphasize how to set up the hand position and technique of an intermediate and advanced student as well as varying approaches to teaching musical expression. Students will learn tools for motivating teenage students and taking their practicing skill to a more advanced level. Students will create lesson plans for private and group instruction for different age groups. Students will receive evaluation on their teaching. Guest teachers will present monthly on varying topics. Students will be required to observe master teachers on and off campus. *NR*

## Nutrition

### NUT 1 PRINCIPLES OF NUTRITION

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course provides a thorough introduction to the principles of nutrition and their application in wellness and disease. The course includes discussions of the role, function and sources of carbohydrates, proteins, fats, vitamins, minerals, and water; food pyramids, diets, and fads; food safety; changing nutritional needs; and global issues such as world hunger. Emphasis is on assessing nutritional information and applying it to the individual diet. *NR*

### NUT 2 SPORT NUTRITION

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course provides a thorough introduction to the principles of nutrition as applied to sport. The course will provide the student with a basic understanding of how nutrition effects physical performance and sport. The course will focus on understanding how nutritional choices can be modified to maximize performance potential. This will include an overview of the basic food groups (carbohydrate, fats, and protein), energy metabolism, vitamins and minerals, hydration, ergogenic aids, special populations, weight management, and training/ performance diets. An emphasis will be placed on applying the principles to designing a nutritional program for an athlete. *NR*

## Philosophy

### PHIL 1 INTRODUCTION TO PHILOSOPHY

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Introduction to Philosophy explains the tools and methods of the philosopher and introduces a few representative philosophical issues. Typical issues are the free will problem, the problem of personal identity, the question of God's existence, and the question of the nature of knowledge of the external world. C-ID: PHIL 100. *NR*

### PHIL 2 INTRODUCTION TO ETHICS

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: WR 201, WR 399 or ESL 201

This philosophy course examines the concept of morality and ethics, ethical theories, and applications of theory to issues of our day. C-ID: PHIL 120. *NR*

## **PHIL 3 INTRODUCTION TO LOGIC**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: WR 201, WR 399 or ESL 201

The course introduces principles of valid reasoning of deductive logic. The course concentrates on formal techniques of sentential logic. C-ID: PHIL 110. *NR*

## **PHIL 5 POLITICAL PHILOSOPHY**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: WR 201, WR 399, ESL 201

This course is designed as an introduction to the study of political philosophy. The course engages prominent works from the history of political thought while addressing the concepts, questions, tensions and problems that guide the study of politics. Among these are: what is justice; what are the goals of a decent society; what is the nature of citizenship and what are its corresponding privileges, immunities, and obligations; what is the nature of political obligation and are there limits to that obligation; what is the appropriate division between rights and responsibilities; how should liberty and equality be balanced? To this end, Political Philosophy examines classic, modern, and contemporary works from the tradition of political thought. PHIL 5 is also listed as PS 5; credit will be given in either area, not both. *NR*

## **PHIL 10 ANCIENT PHILOSOPHY**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: WR 201, WR 399 or ESL 201

This course addresses Ancient Philosophy with emphasis on the development of Greek philosophy from the Pre-Socratics through Aristotle. C-ID: PHIL 130. *NR*

## **PHIL 11 MODERN PHILOSOPHY**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: WR 201, WR 399 or ESL 201

This course addresses 17th through 18th Century Western philosophy, emphasizing epistemology and metaphysics. The course traces the development of the Modern empiricist and rationalist traditions and Kant's "Copernican Revolution" of that debate. C-ID: PHIL 140. *NR*

# **Photography**

## **PHOT 1 HISTORY OF PHOTOGRAPHY**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course presents an overview of the history, technology, and aesthetics of the science/art of photography from the earliest experiments in the medium to the present. The course analyzes trends that led to the contemporary expression of the medium in the late twentieth century. Students must attend at least one major photography exhibition. This course is required of photography majors. PHOT 1 is also listed as ARTH 1; credit will be given in either area, not both. *NR*

## **PHOT 51 BEGINNING DIGITAL PHOTOGRAPHY**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: CIM 221.1 and CIM 221.2

This beginning course focuses on digital photography as a creative medium. Emphasis will be placed on conceptual, technical, and creative photography skills. The course covers the use of digital cameras and digital imaging software to capture, import, edit, and distribute digital photographs. PHOT 51 is also listed as DMA 51; credit will be given in either area, not both. *NR*

## **PHOT 52 INTERMEDIATE DIGITAL PHOTOGRAPHY**

**3 Units - 2 hours lecture, 4 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: DMA 51/PHOT 51

This course addresses the theoretical, aesthetic, and technical application of photography at an intermediate level. Fine art and commercial photography subjects will be explored. Emphasis will be placed on producing a portfolio of original photographs using creative lighting, color, and digital effects. PHOT 52 is also listed as DMA 52; credit will be given in either area, not both. *NR*

# **Physics**

## **PHYS 2A INTRODUCTION TO PHYSICS**

**4 Units - 3 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

Prerequisite: MATH 124

This course is intended for students in the sciences and related subjects who are required to complete a physics course based on precalculus mathematics. The major emphasis is on mechanics with additions from properties of matter, vibrations and waves and thermodynamics. Topics include kinematics and dynamics in one and two dimensions; vectors; Newton's laws; conservation of energy and momentum; kinematics and dynamics of rotational motion; harmonic motion; and selected topics from properties of matter and thermodynamics. C-ID: PHYS 105. *NR*

## **PHYS 2B INTRODUCTION TO PHYSICS**

**4 Units - 3 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

Prerequisite: PHYS 2A

This course is a continuation of Physics 2A. Major emphasis is on electricity, magnetism and optics with additions from modern physics. Topics include electrostatics, electrical potential, circuits, magnetic forces and fields, induction, electromagnetic waves, AC circuits, ray optics, interference and diffraction of light, and selections from modern physics. C-ID: PHYS 110. *NR*

## **PHYS 4A GENERAL PHYSICS**

**4 Units - 3 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

Prerequisite: MATH 3A

Recommended Preparation: MATH 3B

This is a calculus-based introduction to classical mechanics. Kinematics in one and two dimensions; forces and equilibrium; Newton's laws; particle dynamics; universal gravitation; conservation laws; work and potential energy; collisions; kinematics and dynamics of rigid bodies and oscillations are studied. C-ID: PHYS 205. *NR*

## **PHYS 4B GENERAL PHYSICS**

**4 Units - 3 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

Prerequisite: PHYS 4A and MATH 3B or MATH 3BH

A calculus-based introduction to classical electromagnetism. Electrostatic forces and fields, Gauss's Law, potential, currents and circuits, magnetic forces and fields, induction, Maxwell's equations and electromagnetic waves are the major topics of study. C-ID: PHYS 210. *NR*

## **PHYS 4C GENERAL PHYSICS**

**4 Units - 3 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

Prerequisite: PHYS 4A and MATH 3B or MATH 3BH

Recommended Preparation: Concurrent enrollment in MATH 4A or MATH 24 or MATH 24H strongly recommended.

This is a calculus-based introduction to thermodynamics, light, and modern physics. Included are the kinetic theory of gases, laws of thermodynamics, thermal processes, properties of light, optical images, interference and diffraction, electromagnetic waves, relativity, and atomic and nuclear concepts. C-ID: PHYS 215. *NR*

## **PHYS 20 THE IDEAS AND EVENTS OF PHYSICS**

**4 Units - 3 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

This is a survey course intended for students who are not majoring in science. Previous physics training and extensive mathematical background are not required. Focus is on major discoveries, ideas, concepts and methods in physics. Included are simple motions, the nature of matter and energy, and electrical and nuclear science. This course is designed to prepare students for more advanced physics courses. *NR*

## **PHYS 167 COOPERATIVE WORK EXPERIENCE: PHYSICS**

**1 Unit - 1 hour lab**

*Transfers: CSU*

Prerequisite: Application must be approved by CWE coordinator.

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 or a certificate. *NR*

# **Political Science**

## **PS 1 AMERICAN GOVERNMENT**

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: WR 201, WR 399 or ESL 201

This course provides a survey of the principles, personalities, problems, and issues of government at the national, state and local levels. Topics include the U.S. Constitution; federalism and state constitutions, with special emphasis on California; political ideologies; political parties, interest groups and elections; the legislature; the presidency and the federal bureaucracy; the judiciary; and domestic and foreign policy making. Credit may be earned in either PS 1 or PS 1H, but not both. C-ID: POLS 110. *NR*

## **PS 1H AMERICAN GOVERNMENT HONORS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: WR 201, WR 399 or ESL 201

This course provides a survey of the principles, personalities, problems, and issues of government at the national, state and local levels. Topics include the US Constitution; federalism and state constitutions, with special emphasis on California; political ideologies; political parties, interest groups and elections; the legislature; the presidency and the federal bureaucracy; the judiciary; and domestic and foreign policy making. This honors course will be enriched through limited class size, more independent reading, expectation of a greater degree of student participation and involvement, and research assignments that allow the student to pursue topics and projects of individual interest. Students are encouraged to participate in honors research conferences. Credit may be earned in either PS 1 or PS 1H, but not both. C-ID: POLS 110. *NR*

## **PS 3 CALIFORNIA GOVERNMENT AND POLITICS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: WR 201, WR 399 or ESL 201

This course examines the structure and function of California state and local governments from a national comparative perspective. Major issues facing the state will be critically examined, such as the economy, immigration, environmental protection, crime and education. *NR*

## **PS 4 INTRODUCTION TO POLITICAL SCIENCE**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: WR 201, WR 399, or ESL 201

This course is an introduction to the study of politics designed to familiarize students with the basic systems, ideologies and models of political analysis. Among the topics of discussion are the relationship of political science to culture, economics and international affairs; and the challenges posed by analytical approaches used to explain the behavior of individuals, groups and states. C-ID: POLS 150. *NR*

## **PS 5 POLITICAL PHILOSOPHY**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: WR 201, WR 399, or ESL 201

This course is designed as an introduction to the study of political philosophy. The course engages prominent works from the history of political thought while addressing the concepts, questions, tensions and problems that guide the study of politics. Among these are: what is justice; what are the goals of a decent society; what is the nature of citizenship and what are its corresponding privileges, immunities, and obligations; what is the nature of political obligation and are there limits to that obligation; what is the appropriate division between rights and responsibilities; how should liberty and equality be balanced? To this end, Political Philosophy examines classic, modern, and contemporary works from the tradition of political thought. PS 5 is also listed as PHIL 5; credit will be given in either, not both. C-ID: POLS 120. *NR*

## **PS 6 POLITICS AND GOVERNMENT OF THE MIDDLE EAST**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: WR 201, ESL 201, or WR 399

This course introduces students to the historical, ideological and social foundations of the governments and politics of the major Middle Eastern states, including Iran, Turkey, Israel, Egypt and Saudi Arabia. The course explores issues of regional and



international importance, including human rights and democratization, economic development, politicized religion, the Arab-Israeli conflict, and the politics of oil. *NR*

## **PS 7 THE POLITICS OF COMMUNIST AND POST-COMMUNIST STATES**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: WR 201, WR 399, or ESL 201

This course surveys the major forces which have shaped the political, economic, and social systems of communist and post-communist states, with special emphasis on the Soviet Union and the Russian Federation. The course considers not only the formal and informal institutional structures and ideological and historical foundations, but also topics such as nationalities, democratization, economic liberalization, and international relations. *NR*

## **PS 12 COMPARATIVE POLITICS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: WR 201, WR 399, or ESL 201

This course introduces students to analytical methods used to compare political systems and governments. It examines the politics of selected foreign states from among industrial democracies, developing countries, and communist and post-communist systems. Issues given particular attention include democratization, economic development, ideologies, political culture and political change. Credit may be earned in either PS 12 or PS 12H, but not both. C-ID: POLS 130. *NR*

## **PS 12H COMPARATIVE POLITICS HONORS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: WR 201, WR 399 or ESL 201

This course is an enriched introductory course on comparative politics that introduces students to analytical methods used to compare political systems and governments. It examines the politics of selected foreign states from among industrial democracies, developing countries, and communist and post-communist systems. Issues given particular attention include democratization, economic development, ideologies, political culture and political change. PS 12H is enriched through smaller class size, more rigorous reading and writing, and research assignment. Credit may be earned in either PS 12 or PS 12H, but not both. C-ID: POLS 130. *NR*

## **PS 14 INTERNATIONAL RELATIONS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: WR 201, WR 399, or ESL 201

This course introduces students to the major theoretical explanations of conflict, cooperation, economic growth and redistribution in international affairs, explores important historical and contemporary debates in international politics, and teaches students to critically think about international relations. Credit may be earned in either PS 14 or PS 14H, but not both. C-ID: POLS 140. *NR*

## **PS 14H INTERNATIONAL RELATIONS HONORS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: WR 201, WR 399 or ESL 201

This course introduces students to the major theoretical explanations of conflict, cooperation, economic growth and redistribution in international affairs, explores important historical and contemporary debates in international politics, and teaches students to critically think about international relations. This honors course will be enriched through limited class size, more independent reading, expectation of a greater degree of student participation and involvement, and research assignments that allow the student

to pursue topics and projects of individual interest. Credit may be earned in either PS 14 or PS 14H, but not both. C-ID: POLS 140. *NR*

## **PS 17 LATIN AMERICAN POLITICS AND GOVERNMENT**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: WR 201, WR 399, or ESL 201

This course provides an analysis of selected Latin American countries. The course examines political development of Latin America from independence to the present, structure and organization of governments, political participation, and the role of the military and the church. In addition, major developments in the area of political modernization, democratization, economic growth and economic modernization will be analyzed. *NR*

## **PS 21 MODEL UNITED NATIONS**

### **3 Units - 2 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: WR 201, WR 399, ESL 201

This course is designed as an introductory course to the study of the international organizations, foreign policy, and international relations. In addition, the course functions as a preparatory course for student participation in Model United Nations (MUN) conferences. At MUN conferences students represent diplomats from a specific country in a simulation of United Nations committee meetings. During these committee meetings, student delegates debate and negotiate international issues and write formal resolutions in an effort to address a wide variety of global problems, such as maintaining international peace and security, protecting human rights, providing developmental assistance, and protecting the environment. *R-E-3*

## **PS 41 THE HISTORY OF EAST ASIA SINCE 1800**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course examines the major themes in the development of Chinese, Korean, and Japanese societies from the late 18th century to the present. Topics include the growth of the Confucian state in China; the role of 19th century crises and the Communist revolution in transforming the state's goals and capacities; the fragmentation and reorientation of the Chinese elite; peasant rebellion and the revolution of 1949; protest and resistance to traditional and modern regimes; the influence of Western contact on the restructuring of Japan; industrialization; political modernization and imperialism in Japan; the recovery of post-war Japan; and economic dominance in the late 20th century. PS 41 is also listed as HIST 41; credit given in either area, not both. *NR*

## **PS 167 COOPERATIVE WORK EXPERIENCE: POLITICAL SCIENCE**

### **1 Unit - 1 hour lab**

*Transfers: CSU*

Prerequisite: Student must have taken or must be currently taking a college-level course in the political sciences.

*Enrollment Limitation: Students must be concurrently enrolled in 7 units, including CWE. Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 political science major requirements. *NR*

## **PS 167 COOPERATIVE WORK EXPERIENCE: POLITICAL SCIENCE**

### **2 Units - 2 hours lab**

*Transfers: CSU*

Prerequisite: Student must have taken or must be currently taking a college-level course in the political sciences.

*Enrollment Limitation: Students must be concurrently enrolled in 7 units, including CWE. Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 political science major requirements. *NR*

## **PS 167 COOPERATIVE WORK EXPERIENCE: POLITICAL SCIENCE**

### **3 Units - 3 hours lab**

*Transfers: CSU*

Prerequisite: Student must have taken or must be currently taking a college-level course in the political sciences.

*Enrollment Limitation: Students must be concurrently enrolled in 7 units, including CWE. Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 political science major requirements. *NR*

## **PS 167 COOPERATIVE WORK EXPERIENCE: POLITICAL SCIENCE**

### **4 Units - 4 hours lab**

*Transfers: CSU*

Prerequisite: Student must have taken or must be currently taking a college-level course in the political sciences.

*Enrollment Limitation: Students must be concurrently enrolled in 7 units, including CWE. Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 political science major requirements. *NR*

# **Psychology**

## **PSYC 1 INTRODUCTION TO PSYCHOLOGY**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Prerequisite: Eligibility for WR 201, ESL 201 or WR 399

This course is an introduction to the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology. Credit may be earned in either PSYC 1 or PSYC 1H, but not both. C-ID: PSY 110. *NR*

## **PSYC 1H INTRODUCTION TO PSYCHOLOGY HONORS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Prerequisite: Eligibility for WR 201, ESL 201 or WR 399

This course is an honors level introduction to the major concepts, theoretical perspectives, empirical findings, and historical

trends in psychology. Honors enrichment includes limited class size, additional reading and analysis of primary sources, and greater levels of participation in and discussions about psychological research. Credit may be earned in either PSYC 1 or PSYC 1H, but not both. C-ID: PSY 110. *NR*

## **PSYC 2 RESEARCH METHODS IN PSYCHOLOGY**

### **4 Units - 3 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: PSYC 10 or 10H

This course introduces students to the fundamentals of psychological research methods. Students will apply the scientific method in conducting research, analyzing data, interpreting results and writing a research report using current American Psychological Association formatting. The course is recommended as the third course in the psychology major sequence following completion of Introductory Psychology (PSYC 1) and Statistical Methods for the Behavioral Sciences (PSYC 10) courses. C-ID: PSY 200. *NR*

## **PSYC 3 PHYSIOLOGICAL PSYCHOLOGY**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Prerequisite: PSYC 1 or PSYC 1H

This course is an introduction to the interaction of physiology and behavior. Students will examine the role of neuroanatomy, endocrinology in human behavior, emotions, and cognition. The course is recommended for students majoring in psychology to better understand the importance of physiological perspectives of experience and behavior. Credit may be earned for either PSYC 3 or 3H, but not both. C-ID: PSY 150. *NR*

## **PSYC 3H PHYSIOLOGICAL PSYCHOLOGY HONORS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Prerequisite: PSYC 1 or PSYC 1H

This course is an introduction to the interaction of physiology and behavior. Students will examine the role of neuroanatomy, endocrinology in human behavior, emotions, and cognition. The course is recommended for students majoring in psychology to better understand the importance of physiological perspectives of experience and behavior. Honors enrichment includes: limited size, additional reading and analysis of primary sources, and greater levels of discussion about and participation in psychological research. Credit may be earned for PSYC 3 or 3H, but not both. *NR*

## **PSYC 3L PHYSIOLOGICAL PSYCHOLOGY LAB**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

Prerequisite: PSYC 1 or PSYC 1H and prior completion of or concurrent enrollment in PSYC 3

This introductory science laboratory course surveys structure and function of the nervous system, psycho-physical research, and scientific research methodology. Students will engage in hands-on physiological psychology demonstrations and data collection in order to investigate the link between mind and brain, such as dissections, electroencephalograms, galvanic skin response, and other physiological indicators of perception. Main topics include neuroanatomy, behavioral neuroscience, consciousness, attention, emotion, stress, and sensation and perception. *NR*

## **PSYC 5 PSYCHOLOGICAL ASPECTS OF HUMAN SEXUALITY**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: PSYC 1 or PSYC 1H

This course focuses on biopsychosocial aspects of human sexuality from childhood to old age. This course will examine male and

female sexual anatomy, the reproductive process, atypical sexual behaviors, as well as sexual disorders and sexually transmitted infections and their prevention and treatment. Credit may be earned in either PSYC 5 or 5H, but not both. C-ID: PSY 130. *NR*

## **PSYC 5H PSYCHOLOGICAL ASPECTS OF HUMAN SEXUALITY HONORS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: PSYC 1 or PSYC 1H

This course focuses on biopsychosocial aspects of human sexuality from childhood to old age. This course will examine male and female sexual anatomy, the reproductive process, atypical sexual behaviors as well as sexual disorders and sexually transmitted infections and their prevention and treatment. Honors class will feature limited class size, extensive reading and writing on sexual behaviors and disorders. Credit may be earned in either PSYC 5 or 5H, but not both. *NR*

## **PSYC 6 DEVELOPMENTAL PSYCHOLOGY-LIFESPAN**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course examines the biosocial, cognitive, and psychosocial developments that occur across the human lifespan from conception to death. The course provides an overview of various theories of development, empirical findings, and other issues relating to particular stages in the human life cycle. PSYC 6 was formerly offered as PSYC 106. C-ID: PSY 180. *NR*

## **PSYC 7 DEVELOPMENTAL PSYCHOLOGY: CHILDHOOD AND ADOLESCENCE**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: PSYC 1

This course presents a study of the physical, cognitive, and psychosocial processes of human development from conception through adolescence within cultural and family contexts. It introduces the theories, research, and applications that constitute the field of child development, both typical and atypical, examining both traditional approaches and recent innovations. Topics address the physical, motor, perceptual, cognitive, emotional, and social areas of development. The course discusses issues related to intellectual functioning, learning, personality, social roles and relationships, and adjustment. The course meets Title 22 Licensing and California Child Development Permit requirements. PSYC 7 is also listed as HD 7; credit will be given in either area, not both. C-ID: CDEV 100. *NR*

## **PSYC 9 INTRODUCTION TO COGNITION**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course introduces basic concepts in cognitive psychology with a focus on the understanding of cognitive functioning and associated theories. Topics include perception, attention, mental representation, memory, reasoning and problem solving, decision making, vision, and language. *NR*

## **PSYC 10 STATISTICAL METHODS IN THE BEHAVIORAL SCIENCES**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Prerequisite: MATH 253

This course presents the statistical concepts and methods most widely used in behavioral and social science research. Students study the principles of descriptive and inferential statistics, concentrating on the correct analysis of data relating to practical behavioral problems, and the assumptions underlying statistical inferences. The course is recommended as the second course in the psychology major sequence following completion of the introductory course (Psychology 1) and is intended to build an adequate foundation for the study of research methods (Psychology 2). Credit may be earned in either PSYC 10 or 10H, but not both. C-ID: SOCI 125. *NR*

## **PSYC 10H STATISTICAL METHODS IN THE BEHAVIORAL SCIENCES HONORS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Prerequisite: MATH 253

This honors course presents the statistical concepts and methods most widely used in behavioral and social science research. Students study the principles of descriptive and inferential statistics, concentrating on the correct analysis of data relating to practical behavioral problems, and the assumptions underlying statistical inferences. The course is recommended as the second course in the psychology major sequence following completion of the introductory course (Psychology 1) and is intended to build an adequate foundation for the study of research methods (Psychology 2). Honors students use SPSS to analyze a real-life data set, and then present research results in A.P.A. formatting and presentation style. Credit may be earned in either PSYC 10 or 10H, but not both. C-ID: SOCI 125. *NR*

## **PSYC 11 INTRODUCTION TO LANGUAGE ACQUISITION**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: PSYC 1

What is Language and how is it related to Psychology? The production and comprehension of language is one of the most complex aspects of human cognition. This course will give an overview of the aspects of language and how it is acquired by and functions in the developing brain. Topics include the sound system, word structure, sentence structure, and meaning in human language, as well as how these aspects of communication are acquired naturally and fairly effortlessly by children. *NR*

## **PSYC 13 PSYCHOLOGY OF REASONING AND PROBLEM SOLVING**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Prerequisite: WR 1

This course studies the nature of critical thinking, and models and strategies of reasoning and problem solving. Topics include common fallacies of reasoning, self-regulation in the thinking process, the relationship between thought and language, the detection of psychological myth, hypothesis testing, and the application of critical thinking skills to complex issues of everyday life. Credit may be earned in either PSYC 13 or PSYC 13H, but not both. *NR*

## **PSYC 13H PSYCHOLOGY OF REASONING AND PROBLEM SOLVING HONORS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Prerequisite: WR 1

This course studies the nature of critical thinking, and models and strategies of reasoning and problem solving. Topics include common fallacies of reasoning, self-regulation in thinking, the relationship between thought and language, the detection of psychological myth, hypothesis testing, and the application of critical thinking skills to complex issues of everyday life. This honors course is enriched through extensive hands-on training with a toolkit for critical thinking and research, which helps students evaluate sources of information as well as find high-quality scientific sources. Additionally, the honors course provides opportunities for students to share their research findings in group discussions as well as formal presentations. Class size is limited. Credit may be earned in either PSYC 13 or PSYC 13H, but not both. *NR*

## **PSYC 15 FACULTY MENTORED INDEPENDENT RESEARCH IN PSYCHOLOGY**

### **2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC credit pending*

Prerequisite: PSYC 1 or PSYC 1H

Recommended Preparation: PSYC 2 or PSYC 10; at least one other Psychology course in addition to PSYC 1

This research course provides hands-on experience for conducting independent psychological research while under the guidance of a mentor. Students learn to access psychology's research databases, collaborate effectively on a research team, design and conduct a study in compliance with appropriate ethical guidelines, perform data analyses, and present their research findings in a research conference setting. *NR*

## **PSYC 15A FACULTY MENTORED INDEPENDENT RESEARCH IN PSYCHOLOGY A**

**2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC*

Prerequisite: PSYC 1 or PSYC 1H

Recommended Preparation: PSYC 2 or PSYC 10; at least one other Psychology course in addition to PSYC 1

This research course provides hands-on experience for conducting independent psychological research while under the guidance of a faculty mentor. Students learn to access research databases related to the psychology field, collaborate effectively on a research team, design a study that adheres to appropriate ethical guidelines, write an IRB proposal, and present their design in a research conference setting. *NR*

## **PSYC 15B FACULTY MENTORED INDEPENDENT RESEARCH IN PSYCHOLOGY B**

**2 Units - 1 hour lecture, 3 hours lab**

*Transfers: CSU, UC credit pending*

Prerequisite: PSYC 1 or PSYC 1H

Recommended Preparation: PSYC 2 or PSYC 10; PSYC 15A, or similar experience, is strongly recommended.

This research course provides hands-on experience for conducting independent psychological research while under the guidance of a faculty mentor. Students learn to access psychology's research databases, collaborate effectively on a research team, design and conduct a study in compliance with appropriate ethical guidelines, perform data analyses, and present their research findings in a research conference setting. This course is an extension of Psych 15A where students will complete, analyze and present results from their pilot study designed in Psych 15A. *NR*

## **PSYC 20 THE PSYCHOLOGY OF GENDER**

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course is an introduction to the psychology of gender. The course explores gender distinctions and gender roles and their influences on women and men individually and collectively. The emphasis is on methods used by psychologists to study gender differences and how scientific and cultural assumptions about the sexes are reflected in psychological research. Special attention will be paid to the issues that affect women and men in their personal, professional and political relationships. *NR*

## **PSYC 30 SOCIAL PSYCHOLOGY**

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: PSYC 1/1H and/or SOC 1/1H

This course is a survey of the major theories, concepts, and empirical research findings in social psychology. The course examines the relationship between the individual and group, and engages such topics as social beliefs and judgments, social influence, conformity, persuasion, prejudice, aggression, and altruism. PSYC 30 is also listed as SOC 30 ; credit will be given in either area, not both. C-ID: PSY 170. *NR*

## **PSYC 32 PSYCHOLOGY OF PERSONALITY**

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: PSYC 1

This course examines major topics in the field of personality, including theoretical approaches, research methods, and assessment

measures. The course discusses the role of biology, environment, and culture on learning, health, and motivation in personality development. It also explores the philosophies and historical contributions of key figures to the study of personality. *NR*

## **PSYC 33 PSYCHOLOGY OF ADJUSTMENT**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: PSYC 1

This introductory course in adjustment and relationships explores cognitive and behavioral approaches to the understanding of human functioning (e.g., personality development, interpersonal relationships, and self-motivation). Students apply course concepts to commonly faced problems and the management of their own behavior. C-ID: PSY 115. *NR*

## **PSYC 37 ABNORMAL BEHAVIOR**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: PSYC 1 or PSYC 1H

This course provides a research-based introduction to the major maladaptive patterns of human behavior. Students will explore historical and current psychological perspectives and research findings on the diagnosis, treatment, and prevention of mental problems such as disorders relating to anxiety, mood, personality, sexual functioning, psycho-physiology, schizophrenia, and gender identity. Credit may be earned in either PSYC 37 or 37H, but not both. C-ID: PSY 120. *NR*

## **PSYC 37H ABNORMAL BEHAVIOR HONORS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: PSYC 1 or PSYC 1H

This course provides a research-based introduction to the major maladaptive patterns of human behavior. Students will explore historical and current psychological perspectives and research findings on the diagnosis, treatment, and prevention of mental problems such as disorders relating to anxiety, mood, personality, sexual functioning, psycho-physiology, schizophrenia, and gender identity. Honors class will feature limited class size, more opportunities for student to assess and diagnose an individual with a mental disorder, additional reading and writing on disorders, greater levels of participation in and discussions about mental disorders and treatment. Credit may be earned in either PSYC 37 or 37H, but not both. C-ID: PSY 120. *NR*

## **PSYC 60 PSYCHOLOGY AS A MAJOR AND A PROFESSION**

### **1.5 Units - 1.5 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: PSYC 1

PSYC 60 is an introduction to the profession of psychology. This course includes presentations by practicing psychologists who describe their research and daily activities. Local university representatives outline their psychology programs. The course is designed for students who have completed the introductory psychology course and are seeking further information before deciding on psychology as a potential major or career. PSYC 60 was formerly offered as PSYC 160. *NR*

## **PSYC 126 PSYCHOLOGY OF EXPERT LEARNING**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

Recommended Preparation: WR 201

This course presents highly effective, research validated concepts and strategies known to promote greater learning and academic success for new as well as more experienced students. The course also helps students, including psychology majors, achieve the personal and professional competencies expected for successful undergraduate and post-graduate coursework and the workplace. PSYC 126 was formerly offered as PSYC 26. *NR*



## **PSYC 167 COOPERATIVE WORK EXPERIENCE: PSYCHOLOGY**

### **1 Unit - 1 hour lab**

*Transfers: CSU*

*Limitation: Students must be concurrently enrolled in 7 units, including CWE. Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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. PSYC 167 was formerly offered as CWE 167. *NR*

## **Reading**

### **RD 74 CRITICAL READING**

#### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Prerequisite: WR 1 or WR 1H

This course addresses the relationship between critical reading and critical thinking. The course emphasizes the development of reading skills that facilitate the interpretation, analysis, criticism and advocacy of ideas encountered in academic, professional, and personal environments. *NR*

### **RD 171 EFFICIENT AND FLEXIBLE READING**

#### **3 Units - 3 hours lecture**

*Transfers: CSU*

This course is designed to improve reading comprehension, flexibility, and efficiency, and to expand college-level vocabulary. The course introduces strategies that allow students to match their rate of reading to the material and to their purpose. The course is intended for students who are proficient in basic reading skills. *NR*

### **RD 370 READING FOR COLLEGE SUCCESS**

#### **3 Units - 3 hours lecture**

Reading 370 is designed to prepare students for college-level reading. The course presents strategies for improving comprehension, vocabulary, and critical thinking skills, and introduces students to a variety of study techniques. Students practice these techniques using selections from textbooks in various disciplines including the natural sciences, the social sciences, business and humanities. This course is recommended for students who are not reading at the college level. *NR*

### **RD 372 READING LABORATORY**

#### **0.5 Unit - 1.5 hours learning center 1.5 hours reading center**

Corequisite: ESL 201, ESL 301, ESL 370, ESL 384, ESL 394; ESS 310, ESS 315, ESS 340, ESS 345; RD 74, RD 171; WR 201, WR 301 or WR 399

This open-entry/open-exit reading laboratory is a self-directed lab for students enrolled in the specified corequisite courses. Students are assigned to specific modules of instruction based on their needs and abilities, and identified objectives. In assigned modular work, students practice strategies for pre-reading, literal and critical comprehension, and vocabulary development. This course is offered on a pass/no-pass basis only. Students must complete at least 24 hours in the Reading Lab and successfully complete assignments to earn credit. *R-E-3*

# Real Estate

## RE 168 COOPERATIVE WORK EXPERIENCE: REAL ESTATE

### 1 Unit - 1 hour lab

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 a certificate. *NR*

## RE 168 COOPERATIVE WORK EXPERIENCE: REAL ESTATE

### 2 Units - 2 hours lab

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 a certificate. *NR*

## RE 168 COOPERATIVE WORK EXPERIENCE: REAL ESTATE

### 3 Units - 3 hours lab

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 a certificate. *NR*

## RE 168 COOPERATIVE WORK EXPERIENCE: REAL ESTATE

### 4 Units - 4 hours lab

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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 a certificate. *NR*

## RE 170 REAL ESTATE PRINCIPLES

### 3 Units - 3 hours lecture

*Transfers: CSU*

This fundamental real estate course covers the basic laws and principles of California real estate, focusing on the background and terminology needed to pursue advanced study in specialized courses. Topics include encumbrances, agency, contract law, finance, appraisal, escrow, taxation, fair housing, and real estate licensing law. The course is required of those preparing for the real estate salesperson license examination, and it applies toward the state's elective educational requirements for the broker's examination. *NR*

## **RE 172 REAL ESTATE PRACTICE**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

Recommended Preparation: RE 170

This course provides a thorough review of the day-to-day operations in real estate operations and brokerages, and provides practical experience for new agents. Topics include listing, prospecting, advertising, financing, sales techniques, escrow, property management, and ethics. The Department of Real Estate requires completion of this course before obtaining a real estate salesperson license. The course also applies toward the state's educational requirements for the broker's examination. *NR*

## **RE 174A LEGAL ASPECTS OF REAL ESTATE I**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

Recommended Preparation: RE 170

This course presents a comprehensive overview of the laws that affect real estate transactions and the real estate profession in California. Topics include: real estate law including rights incident to property ownership and management, agency, agency law, fair housing law, environmental law, and contract law. This course applies toward the State's elective educational requirements for the Salesperson License and core educational requirements for the broker's exam. This course also applies toward Bureau of Real Estate (BRE) basic education. *NR*

## **RE 175 REAL ESTATE FINANCE**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

Recommended Preparation: RE 170

This course covers lending institutions, the government's role in real estate finance, primary and secondary mortgage markets, lending instruments; and basic financial concepts of mortgage lending, property valuation, real estate investment, escrow, and federal laws affecting real estate. The course applies toward the state's statutory educational requirements for real estate salespersons and brokers. *NR*

## **RE 176A REAL ESTATE APPRAISAL I**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

Recommended Preparation: RE 170

This is an introductory course covering the purposes of appraisals; the appraisal process; and the different approaches, methods, and techniques used to determine the value of various types of property. Course focus will be on residential and single-unit property. The course applies toward the state's educational requirement for an appraisal license as well as a broker's license. It partially fulfills the 18-month requirement for full licensing as a real estate salesperson. *NR*

## **RE 176B REAL ESTATE APPRAISAL II**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

Recommended Preparation: RE 176A

of investment properties, including land, lease interests, and other special types of real estate. The course discusses concepts of

loan appraisal and delineates various methods of appraisal. This course meets the California Department of Real Estate's elective requirements for the licensing examination, and it applies toward the state's educational requirements for the broker's examination. *NR*

## **RE 190 ESCROW I**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

Recommended Preparation: RE 170

This course covers the principles and current practices of the escrow process in California. Topics include terminology, documentation, escrow instructions, encumbrances, interest adjustments, reconveyance, mortgages, insurance, taxes, and fees, other processing details pertinent to the handling of an escrow from inception to closing including fiduciary and ethical responsibilities. This course is one of the elective courses for the real estate salesperson or broker license requirement as set forth by the California Bureau of Real Estate (BRE). *NR*

## **RE 195 PROPERTY MANAGEMENT I**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

This course covers the professional management of investment properties such as single-family, multi-family, commercial, and industrial properties. Focus is on current marketing strategies, accounting, and maintenance procedures used by professional management firms. The course is intended for the property owner or the real estate practitioner who wishes to specialize in property management. Course applies toward the California Bureau of Real Estate's educational requirements for licensees. *NR*

## **RE 250 REAL ESTATE SALESPERSON'S LICENSE PREPARATION**

### **1 Unit - 1 hour lecture**

Recommended Preparation: RE 170 and RE 172

This course covers fundamental information concerning the practice of real estate and assists those preparing for the real estate salesperson license examination. Emphasis is placed on real estate licensing, contract law, agency law, taxation, appraisal, and escrow. *NR*

## **RE 252 REAL ESTATE LICENSE RENEWAL**

### **1 Unit - 1 hour lecture**

This course meets the California Department of Real Estate requirement for continuing education. Topics include three-hour modules on each of the following topics: Ethics, Agency, Trust Fund Handling, Fair Housing, and Risk Management. *NR*

## **RE 279 COMPUTER APPLICATIONS FOR REAL ESTATE**

### **3 Units - 3 hours lecture**

This course introduces computer applications for real estate. Topics include spreadsheet, word processing, presentation and related software fundamental to real estate transactions and brokerages; real estate math, loans and finance; office peripherals; and using the Internet to access and manage real estate resources. This course applies toward the state's educational requirements for the California Real Estate Salesperson and Real Estate Broker exams. *NR*

# **Sign Language**

## **SIGN 21 BEGINNING AMERICAN SIGN LANGUAGE I**

### **4 Units - 4 hours lecture**

*Transfers: CSU, UC*

This course is designed to develop the student's ability to understand and communicate in American Sign Language (ASL). The course introduces the language of sign; the manual alphabet (finger spelling); and the basic vocabulary, grammar, syntax, and conversational conventions of ASL. The emphasis is on ASL as a visual-gestural language and on the unique cultural and linguistic features of the Deaf community. SIGN 21 is equivalent to two years of high school ASL. *NR*

## **SIGN 22 BEGINNING AMERICAN SIGN LANGUAGE II**

### **4 Units - 4 hours lecture**

*Transfers: CSU, UC*

Prerequisite: SIGN 21

This course is designed to further develop the student's ability to understand and communicate in American Sign Language (ASL). The emphasis is on expanding ASL vocabulary and finger-spelling skills and on syntactical accuracy. This course discusses the appropriate use of sign language in various social contexts and examines cultural versus pathological perspectives on Deafness. SIGN 22 is equivalent to three years of high school ASL. *NR*

## **SIGN 23 INTERMEDIATE AMERICAN SIGN LANGUAGE**

### **4 Units - 4 hours lecture**

*Transfers: CSU, UC*

Prerequisite: SIGN 22

This course is designed to further expand the student's ability to comprehend and communicate in American Sign Language (ASL). The emphasis is on the continued acquisition of ASL vocabulary and syntactical accuracy; increased proficiency in finger spelling; and advanced expressive skills. The course also introduces ASL literature in depth, the history of sign language, regional and international variations in the language, Deaf customs, and culturally appropriate behavior in the Deaf community. SIGN 23 is equivalent to four years of high school ASL. *NR*

## **SIGN 24 INTERMEDIATE AMERICAN SIGN LANGUAGE II**

### **4 Units - 4 hours lecture**

*Transfers: CSU, UC*

Prerequisite: SIGN 23

This course is designed to increase the student's ability to comprehend and converse in ASL and refines receptive and expressive skills. Students view story narratives, a novel-length story in ASL, and also actively participate in classroom activities. Classroom discussions center around aspects of daily life and culture in the Deaf community. SIGN 24 continues to build upon acquired grammar and introduces more complex grammatical structures. This course is taught in ASL. *NR*

## **SIGN 180 SIGN LANGUAGE CONFERENCE**

### **0.5 Unit - 1.5 hours learning center**

*Transfers: CSU*

Corequisite: SIGN 21, SIGN 22 or SIGN 23

This open-entry/open-exit, pass/no-pass course offers conference instruction with Sign language instructors for students enrolled in specified corequisite courses. The course focus is on exercises and assignments to improve students' receptive and expressive ability with fingerspelling, classifiers, referential space, and non-manual markers in American Sign Language (ASL). Students must complete at least 24 hours in the Language Center during the semester and participate in no less than four conferences in order to receive credit. *R-E-3*

# **Sociology**

## **SOC 1 INTRODUCTION TO SOCIOLOGY**

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course explains how society shapes people's lives and how individual behavior is largely shaped by the groups to which we belong. The course investigates the structure and function of groups, organizations and societies and how people interact within these contexts. Since all human behavior is social, the subject matter of sociology is vast, ranging from the intimate family to the hostile mob; from organized crime to religious cults; from the division of race, gender and social class to the shared beliefs of a common culture; and from the sociology of work to the sociology of the media. Students may earn credit in either SOC 1 or 1H, but not both. C-ID: SOCI 110. *NR*

**SOC 1H INTRODUCTION TO SOCIOLOGY HONORS****3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course explains how society shapes people's lives and how individual behavior is largely shaped by the groups to which we belong. The course investigates the structure and function of groups, organizations and societies and how people interact within these contexts. As an honors course enrichment is achieved through limited class size, seminar format, more extensive reading and discussion of major concepts, theoretical perspectives, and empirical findings. Credit may be earned in either SOC 1 or 1H, but not both. C-ID: SOCI 110. *NR*

**SOC 2 SOCIAL PROBLEMS****3 Units - 3 hours lecture**

*Transfers: CSU, UC*

The course examines major social phenomena in contemporary society. Subjects such as population growth, environmental degradation, the global assembly line, racism, ageism, economic inequality, urban poverty, domestic violence and drugs are emphasized. Students explore, evaluate and seek solutions to world problems. C-ID: SOCI 115. *NR*

**SOC 3 GLOBAL SOCIOLOGY: FORCES OF CHANGE IN THE MODERN WORLD SYSTEM****3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course analyzes the major revolutionary changes in human societies that have occurred over the past few hundred years up to the present time. The course discusses the radical new version of human society that has accompanied the spread of global capitalism: political and cultural transformations, the life-style adjustments that have coincided with these grand social trends and an unprecedented level of global inequality. This course introduces students to the macrosociological perspective studying the development of the capitalist world system, how this system impacts politics, culture and the economy, and resistance to the growth of global capitalism. *NR*

**SOC 10 INTRODUCTION TO MARRIAGE AND FAMILY****3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course is designed to give the student a sociological understanding of the family in a historical and cultural context. The focus is on the family as a social institution -- a set of structured social arrangements for meeting certain human needs -- and the larger social forces that shape its structure. The course explores how wealth, race, gender and sexuality produce diverse family forms and household arrangements, especially within late twentieth century US society. Topics covered include dating, marriage, cohabitation, divorce, single parent families, blended families, issues related to work and the family, children and parents divorce, remarriage and public policy. C-ID: SOCI 130. *NR*

**SOC 15 SOCIALIZATION OF THE CHILD - CHILD, FAMILY, COMMUNITY****3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: PSYC 1 or PSYC 1H, SOC 1 or SOC 1H

This course examines the influence of major socializing agents - family, school, peers, media, and community - on the developing child the course addresses historical, cultural, and socioeconomic factors that affect a child's socialization, as well as issues confronting children with special needs and resources available for interventions. Emphasis is placed on the importance of respectful, reciprocal relationships that support and empower families. This course is of particular interest to students preparing for a career working with children. It also meets Title 22 licensing requirements for childcare providers. SOC 15 is also listed as HD 15; credit will be given in either area, not both. C-ID: CDEV 100. *NR*

## **SOC 19 THE SOCIOLOGY OF SEX AND GENDER**

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

The course introduces students to the discipline of sociology and to the specific area of gender roles. Focusing on research, both in the United State and globally, it provides an in-depth, multidiscipline survey of gender stressing the interlocking nature of race, class, and gender. The course highlights other disciplines to demonstrate their influence on the thinking of gender roles and the creation of beliefs about women and men, masculinity and femininity. C-ID: SOCI 140. *NR*

## **SOC 20 ETHNIC AND MINORITY GROUP RELATIONS**

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course introduces the principles and processes that shape the patterns of minority-majority relations, focusing on racial and ethnic groups in the United States. The course examines the social, cultural and economic causes and consequences of prejudice, discrimination, racism, classism, and sexism. It offers a sociological framework to address immigration, the growing diversity in the United States, and racial and ethnic struggles worldwide. C-ID: SOCI 150. *NR*

## **SOC 23 SOCIOLOGY OF POPULAR CULTURE**

**3 Units - 3 hours lecture**

*Transfers: CSU, UC credit pending*

Recommended Preparation: WR 201, ESL 201, or WR 399

This course analyzes the emergence and shifts in popular culture up until the current day--from local newspapers to social media conglomerates. Case studies of media companies such as the Walt Disney Company will be used to trace changes in popular culture, especially production, sales and synergy. The growth of 'new' media outlets on social media and tabloid journalism will also be covered. While there is a focus on media the course will cover other elements of pop culture, including movies, TV, games, toys, theme parks, sports, technology and politics. Attention is given to uncovering connections between popular culture and gender, race, and class. *NR*

## **SOC 30 SOCIAL PSYCHOLOGY**

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: PSYC 1/1H and/or SOC 1/1H

This course is a survey of major theories, concepts, and empirical research findings in social psychology. The course examines the relationship between the individual and the group, and engages such topics as social beliefs and judgments, social influence, conformity, persuasion, prejudice, aggression, and altruism. SOC 30 is also listed as PSYC 30; credit will be given in either area, not both. *NR*

# **Spanish**

## **SPAN 1 BEGINNING SPANISH I**

### **5 Units - 5 hours lecture**

*Transfers: CSU, UC*

This course is designed to develop the fundamentals of communicating in Spanish, including listening comprehension, reading, and basic conversation. The emphasis is on comprehension of spoken and written Spanish. Students actively participate in classroom oral activities. This course also introduces beginning writing skills and presents general aspects of Hispanic daily life and culture. Throughout the course, the role of grammar is secondary to that of acquiring basic competence in Spanish. SPAN 1 is taught in Spanish. Credit may be earned in either SPAN 1 or 1H, but not both. C-ID: SPAN 100. *NR*

## **SPAN 1H BEGINNING SPANISH I HONORS**

### **5 Units - 5 hours lecture**

*Transfers: CSU, UC*

This course is designed to develop the fundamentals of communicating in Spanish, including listening comprehension, reading, writing and basic conversation. Grammar instruction enhances reading comprehension and writing accuracy. Students actively participate in classroom oral activities. In addition, this course presents general aspects of Hispanic daily life and culture. This honors course will be enriched through limited class size, oral presentations, expanded assignments and participation in cultural activities. Field trip required. SPAN 1H is taught in Spanish. Credit may be earned in either SPAN 1 or 1H, but not both. C-ID: SPAN 100. *NR*

## **SPAN 2 BEGINNING SPANISH II**

### **5 Units - 5 hours lecture**

*Transfers: CSU, UC*

Prerequisite: SPAN 1 or two years of high school Spanish

This course is designed to expand the fundamentals of communicating in Spanish, including listening comprehension, reading, writing and basic conversation. The emphasis is on the comprehension of spoken and written Spanish. Students actively participate in classroom oral activities. This course expands beginning writing skills and presents more information about Hispanic daily life and culture. Throughout the course the role of grammar is secondary to that of acquiring basic competence in Spanish. SPAN 2 is taught in Spanish. C-ID: SPAN 110. *NR*

## **SPAN 3 INTERMEDIATE SPANISH I**

### **5 Units - 5 hours lecture**

*Transfers: CSU, UC*

Prerequisite: SPAN 2 or three years of high school Spanish

This course is designed to develop further the student's ability to comprehend and converse in Spanish and continues to expand student's skills in reading and writing. Students actively participate in classroom oral activities and read essays and fiction in Spanish. The course reviews first year Spanish grammar and introduces intermediate grammatical concepts. SPAN 3 presents additional aspects of Hispanic daily life and culture. SPAN 3 is taught in Spanish. C-ID: SPAN 200. *NR*

## **SPAN 4 INTERMEDIATE SPANISH II**

### **5 Units - 5 hours lecture**

*Transfers: CSU, UC*

Prerequisite: SPAN 3 or four years of high school Spanish

This course is designed to increase the student's ability to comprehend and converse in Spanish and refines reading and writing skills. Students read essays and fiction in Spanish and also actively participate in class activities. Class discussions center around aspects of Hispanic daily life and culture. Spanish 4 continues to build upon earlier language structures and further expands advanced grammatical structures. SPAN 4 is taught in Spanish. C-ID: SPAN 210. *NR*

## **SPAN 10 INTERMEDIATE CONVERSATIONAL SPANISH**



**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Prerequisite: SPAN 2 or three years of high school Spanish

This course is designed to improve the student's ability to comprehend native spoken Spanish and increase oral fluency. Reading and writing activities enable students to acquire new vocabulary and structures and examine various aspects of Hispanic culture. *NR*

**SPAN 11 ADVANCED CONVERSATIONAL SPANISH****3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Prerequisite: SPAN 3 or SPAN 10

This course is designed to increase the student's ability to comprehend native spoken Spanish and increase oral fluency. Reading, watching films and written and oral responses enable the student to acquire new vocabulary and structures and examine various aspects of Hispanic culture. *NR*

**SPAN 180 SPANISH LANGUAGE CONFERENCE****0.5 Unit - 1.5 hours learning center**

*Transfers: CSU*

Corequisite: SPAN 1, SPAN 1H, SPAN 2, SPAN 3, SPAN 4, SPAN 10 or SPAN 11

This open-entry/open-exit, pass/no-pass course offers conference instruction with Spanish language instructors for students enrolled in specified corequisite courses. The course focus is on exercises and assignments to improve students' speaking, listening, reading, writing, and grammar skills in native Spanish. Students must complete at least 24 hours in the Languages Center during the semester and participate in no less than four conferences in order to receive credit. *R-E-3*

## **Sustainability and Resource Management**

**SRM 80 INTRODUCTION TO THE PRINCIPLES OF SUSTAINABILITY****3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course lays the foundation for the study of global sustainability. With universal foundation/framework, this course provides students with a basic understanding of environmental systems and interrelationship and effect of humans upon the environment. Topics include a historical overview of sustainability and the current problems and issues related to establishing sustainable practices in resource management and conservation of natural resources. Students will examine environmental and urban resource issues, strategies, and tools to investigate and analyze sustainable practices. Students will learn the aspects of systems thinking as it relates to solving sustainability challenges. SRM 80 was formerly offered as SRM 180. *NR*

**SRM 85 SOCIETY AND SUSTAINABILITY****3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course explores key global challenges, such as population growth and resource consumption and how they are creating a greater urgency to develop and promote theories, methods, and practices that foster sustainability in our society, to include analysis of the origins and environmental impacts of consumer culture, social media tools and community based outreach models to address the needs of developing sustainability programs. SRM 85 was formerly offered as SRM 185. *NR*

**SRM 90 SUSTAINABLE PRACTICES AND RESOURCE MANAGEMENT FOR COMMUNITIES**

**3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course investigates the nexus between communities and sustainability. Topics include sustainability in the context of urban systems and how these systems should be studied in light of sustainability concerns. This course will consider the impact urban systems have on the environmental systems that support them. Students will study ways we account for costs, benefits, and the environment utilizing the International City Council Management system, Triple Bottom Line tool. Students will examine how decisions are made at the local level and will understand the regulatory framework for sustainability in California and the United States. SRM 90 was formerly offered as SRM 190. *NR*

**SRM 168 COOPERATIVE WORK EXPERIENCE: SUSTAINABILITY AND RESOURCE MANAGEMENT****1 Unit - 1 hour lab**

*Transfers: CSU*

Prerequisite: Student must have taken or must be currently taking a college-level course in sustainability and resource management.

*Limitation: Students must be concurrently enrolled in 7 units, including CWE. Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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. *NR*

**SRM 168 COOPERATIVE WORK EXPERIENCE: SUSTAINABILITY AND RESOURCE MANAGEMENT****2 Units - 2 hours lab**

*Transfers: CSU*

Prerequisite: Student must have taken or must be currently taking a college-level course in sustainability and resource management.

*Limitation: Students must be concurrently enrolled in 7 units, including CWE. Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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. *NR*

**SRM 168 COOPERATIVE WORK EXPERIENCE: SUSTAINABILITY AND RESOURCE MANAGEMENT****3 Units - 3 hours lab**

*Transfers: CSU*

Prerequisite: Student must have taken or must be currently taking a college-level course in sustainability and resource management.

*Limitation: Students must be concurrently enrolled in 7 units, including CWE. Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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. *NR*

## **SRM 195 BUSINESS CASE FOR SUSTAINABILITY**

### **3 Units - 3 hours lecture**

*Transfers: CSU*

In this course, students will explore trends, concepts, tools, new market opportunities, innovation, and employee engagement in sustainable practices to design, implement and oversee sustainability programs for businesses. Students will study the tools needed to build a business case that examines the impact of sustainability on an organization, institution, or community. Topics include the benefits and challenges of developing more sustainable business strategies and practices as well as the changing role of business in society and the environment. *NR*

## **Theatre Arts**

### **TA 1 ACTING**

#### **3 Units - 2 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

This course addresses traditional techniques, theories and philosophies of acting. Students work on the creative and physical aspects of the art, including voice development, breathing and relaxation techniques, and kinetics. Improvisation, scene study, character development, and text analysis are central to this course. C-ID: THTR 151. *NR*

### **TA 2 BEGINNING SCENE STUDY**

#### **3 Units - 2 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: TA 1

This course continues the emphasis on the physical and creative aspects of acting begun in TA 1. Students concentrate on scene study, characterization, and ensemble performance, working toward realizing a method of approach. C-ID: THTR 151. *NR*

### **TA 3 ADVANCED SCENE STUDY**

#### **3 Units - 2 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: TA 2

This course continues the physical and creative acting emphasis of TA 2 with additional work in the areas of cold reading and situation comedy. Students focus primarily on advanced scene study, characterization and ensemble performance, working toward realizing a method of approach. *NR*

### **TA 4 ACTING STYLES: CLASSICAL**

#### **3 Units - 2 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

This course is devoted to the analysis, preparation and performance of classical scenes. The course focuses on the stylistic demands placed on actors performing scenes or monologues from plays by classical Greek, Elizabethan, and Renaissance playwrights, including Shakespeare. Students study and practice the nuances of period characterization. *NR*

### **TA 5 ACTING STYLES: CONTEMPORARY**

#### **3 Units - 2 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

This course is devoted to the analysis, preparation and performance of modern and contemporary scenes. The course focuses on

the stylistic demands placed on actors performing scenes or monologues. Students study and practice the nuances of characterization. *NR*

## **TA 7 SCREEN ACTING TECHNIQUES**

### **3 Units - 2 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

This course explores the principles and techniques of various performance methods involved in acting for television and film. The course includes directed exercises and dramatic scenes from feature films, situation comedies, soap operas, and commercials. *NR*

## **TA 8 ADVANCED ACTING**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Prerequisite: Successful completion of TA 1 or by audition

This is an advanced course in acting. The course focuses especially on text analysis and character development, and students concentrate on exploring and developing their creative abilities in these areas. C-ID: THTR 152. *NR*

## **TA 9 MUSICAL REVUE**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

This course introduces students to the background and performance practice of musical revue. The course explores various vocal styles and materials from musical theatre, jazz, and pop-rock literature. Students focus on character analysis, lyric interpretation, and the effective staging of songs in solo and ensemble scenes. *NR*

## **TA 10 MUSICAL THEATRE WORKSHOP**

### **3 Units - 2 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

This course introduces students to the principles and techniques involved in performing for musical theatre. Students practice solo and choral singing, dancing, acting, and auditioning techniques. They also experiment with various performance methods and styles. *NR*

## **TA 12 DIRECTING**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course is an introduction to the role of the director in theatrical productions. The course explores the director's interpretation of dramatic literature, focusing on the communication of intellectual and emotional concepts through composition, picturization, movement, and rhythm. *NR*

## **TA 15 REHEARSAL AND PERFORMANCE: DRAMA**

### **2 Units - 6 hours lab**

*Transfers: CSU, UC*

*Limitation: By audition only*

This course focuses on the preparation of serious dramatic productions for public performance. The course addresses performance techniques, theories, and philosophies as they relate to the development of dramatic productions. Students will both act and assist with technical work and production management. TA 15 is an open-entry/open-exit course. TA 15 (or TA 15A and TA 15B) may be taken once for a maximum of 2 units. Students are limited to taking four of the rehearsal and performance courses (TA 15, TA 16, TA 17, TA 18, or TA 19) for a maximum of 8 units. C-ID: THTR 191. *NR*

## **TA 15A INTRODUCTION TO REHEARSAL AND PERFORMANCE: DRAMA**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

*Limitation: By audition only*

This course focuses on the preparation of serious dramatic productions for public performance. The course addresses performance techniques, theories, and philosophies as they relate to the development of dramatic productions. Students will both act and assist with technical work and production management. TA 15A is an open-entry/open-exit course and is equivalent to the first half of TA 15. TA 15 (or TA 15A and TA 15B) may be taken once for a maximum of 2 units. Students are limited to taking four of the rehearsal and performance courses (TA 15, TA 16, TA 17, TA 18, or TA 19) for a maximum of 8 units. C-ID: THTR 191. NR

## **TA 15B CONTINUATION OF REHEARSAL AND PERFORMANCE: DRAMA**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

*Limitation: By audition only*

This course focuses on the preparation of serious dramatic productions for public performance. The course addresses performance techniques, theories, and philosophies as they relate to the development of dramatic productions. Students will both act and assist with technical work and production management. TA 15B is an open-entry/open-exit course and is equivalent to the second half of TA 15. TA 15 (or TA 15A and 15B) may be taken once for a maximum of 2 units. Students are limited to taking four of the rehearsal and performance courses (TA 15, TA 16, TA 17, TA 18, or TA 19) for a maximum of 8 units. C-ID: THTR 191. NR

## **TA 16 REHEARSAL AND PERFORMANCE: COMEDY**

### **2 Units - 6 hours lab**

*Transfers: CSU, UC*

*Limitation: By audition only*

This course focuses upon the preparation of comic productions for public performance. The course addresses performance techniques, theories, and philosophies as they relate to the development of comic productions. Students will both act and assist with technical work and production management. TA 16 is an open-entry/ open-exit course. TA 16 (or TA 16A and TA 16B) may be taken once for a maximum of 2 units. Students are limited to taking four of the rehearsal and performance courses (TA 15, 16, TA 17, TA 18, or TA 19) for a maximum of 8 units. C-ID: THTR 191. NR

## **TA 16A INTRODUCTION TO REHEARSAL AND PERFORMANCE: COMEDY**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

*Limitation: By audition only*

This course focuses on the preparation of comic productions for public performance. The course addresses performance techniques, theories, and philosophies as they relate to the development of comic productions. Students will both act and assist with technical work and production management. TA 16A is an open-entry/open-exit course and is equivalent to the first half of TA 16. TA 16 (or TA 16A and TA 16B) may be taken once for a maximum of 2 units. Students are limited to taking four of the rehearsal and performance courses (TA 15, TA 16, TA 17, TA 18, or TA 19) for a maximum of 8 units. C-ID: THTR 191. NR

## **TA 16B CONTINUATION OF REHEARSAL AND PERFORMANCE: COMEDY**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

*Limitation: By audition only*

This course focuses upon the preparation of comic productions for public performance. The course addresses performance

techniques, theories, and philosophies as they relate to the development of comic productions. Students will both act and assist with technical work and production management. TA 16B is an open-entry/open-exit course and is equivalent to the second half of TA 16. TA 16 (or TA 16A and TA 16B) may be taken once for a total of 2 units. Students are limited to taking four of the rehearsal and performance courses (TA 15, TA 16, TA 17, TA 18, or TA 19) for a maximum of 8 units. C-ID: THTR 191. *NR*

## **TA 17 REHEARSAL AND PERFORMANCE: MIXED GENRES**

### **2 Units - 6 hours lab**

*Transfers: CSU, UC*

*Limitation: By audition only*

This course focuses on the preparation of mixed genre productions for public performance. The course addresses performance techniques, theories, and philosophies as they relate to the development of mixed genre productions. Students will both act and assist with technical work and production management. TA 17 is an open-entry/open-exit course. TA 17 (or TA 17A and TA 17B) may be taken once for a maximum of 2 units. Students are limited to taking four of the rehearsal and performance courses (TA 15, TA 16, TA 17, TA 18, or TA 19) for a maximum of 8 units. C-ID: THTR 191. *NR*

## **TA 17A INTRODUCTION TO REHEARSAL AND PERFORMANCE: MIXED GENRES**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

*Limitation: By audition only*

This course focuses on the preparation of mixed genre productions for public performance. The course addresses performance techniques, theories, and philosophies as they relate to the development of mixed genre productions. Students will both act and assist with technical work and production management. TA 17A is an open-entry/open-exit course and is equivalent to the first half of TA 17. TA 17 (or TA 17A and TA 17B) may be taken once for a maximum of 2 units. Students are limited to taking four of the rehearsal and performance courses (TA 15, TA 16, TA 17, TA 18, or TA 19) for a maximum of 8 units. C-ID: THTR 191. *NR*

## **TA 17B CONTINUATION OF REHEARSAL AND PERFORMANCE: MIXED GENRES**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

*Limitation: By audition only*

This course focuses on the preparation of mixed genre productions for public performance. The course addresses performance techniques, theories, and philosophies as they relate to the development of mixed genre productions. Students will both act and assist with technical work and production management. TA 17B is an open-entry/open-exit course and is equivalent to the second half of TA 17. TA 17 (or TA 17A and 17B) may be taken once for a total of 2 units. Students are limited to taking four of the rehearsal and performance courses (TA 15, TA 16, TA 17, TA 18, or TA 19) for a maximum of 8 units. C-ID: THTR 191. *NR*

## **TA 18 REHEARSAL AND PERFORMANCE-DANCE**

### **2 Units - 6 hours lab**

*Transfers: CSU, UC*

*Limitation: By audition only*

This course focuses on the preparation of theatrical productions with a strong dance element, such as dance concerts, musical theatre productions, and operas. The course addresses performance techniques, theories, and philosophies of theatrical performance as they relate to the development of such productions. TA 18 (or TA 18A and TA 18B) may be taken once for a total of 2 units. Students are limited to taking four of the rehearsal and performance courses (TA 15, TA 16, TA 17, TA 18, or TA 19) for a maximum of 8 units. *NR*

## **TA 18A INTRODUCTION TO REHEARSAL AND PERFORMANCE-DANCE**

**1 Unit - 3 hours lab**

*Transfers: CSU, UC*

*Limitation: By audition only*

This course focuses on the preparation of theatrical productions with a strong dance element, such as dance concerts, musical theatre productions, and operas. The course addresses performance techniques, theories, and philosophies of theatrical performance as they relate to the development of such productions. TA 18A is equivalent to the first half of TA 18. TA 18 (or TA 18A and TA 18B) may be taken once for a total of 2 units. Students are limited to taking four of the rehearsal and performance courses TA 15, TA 16, TA 17, TA 18, or TA 19) for a maximum of 8 units. *NR*

**TA 18B CONTINUATION OF REHEARSAL AND PERFORMANCE-DANCE****1 Unit - 3 hours lab**

*Transfers: CSU, UC*

*Limitation: By audition only*

This course focuses on the preparation of theatrical productions with a strong dance element, such as dance concerts, musical theatre productions, and operas. The course addresses performance techniques, theories, and philosophies of theatrical performance as they relate to the development of such productions. TA 18B is equivalent to the second half of TA 18. TA 18 (or TA 18A and 18B) may be taken once for a total of 2 units. Students are limited to taking four of the rehearsal and performance courses (TA 15, TA 16, TA 17, TA 18, or TA 19) for a maximum of 8 units. *NR*

**TA 19 REHEARSAL AND PERFORMANCE: MUSICAL THEATRE****2 Units - 6 hours lab**

*Transfers: CSU, UC*

*Limitation: By audition only*

This course addresses performance techniques, theories, and philosophies as they relate to the development of musical theatre productions. The course focuses on the preparation of musical theatre productions for public performance. Students will both act and assist with technical work and production management. TA 19 is an open-entry/open-exit course. TA 19 (or TA 19A and TA 19B) may be taken once for a total of 2 units. Students are limited to taking four of the rehearsal and performance courses (TA 15, TA 16, TA 17, TA 18, or TA 19) for a maximum of 8 units. C-ID: THTR 191. *NR*

**TA 19A INTRODUCTION TO REHEARSAL AND PERFORMANCE: MUSICAL THEATRE****1 Unit - 3 hours lab**

*Transfers: CSU, UC*

*Limitation: By audition only*

This course focuses on the preparation of musical theatre productions for public performance. The course addresses performance techniques, theories, and philosophies as they relate to the development of musical theatre productions. Students will both act and assist with technical work and production management. TA 19A is open-entry/open-exit course and is equivalent to the first half of TA 19. TA 19 (or TA 19A and TA 19B) may be taken once for a total of 2 units. Students are limited to taking four of the rehearsal and performance courses (TA 15, TA 16, TA 17, TA 18, or TA 19) for a maximum of 8 units. C-ID: THTR 191. *NR*

**TA 19B CONTINUATION OF REHEARSAL AND PERFORMANCE: MUSICAL THEATRE****1 Unit - 3 hours lab**

*Transfers: CSU, UC*

*UC Limitation: By audition only*

This course addresses performance techniques, theories, and philosophies as they relate to the development of musical theatre productions. The course focuses on the preparation of musical theatre productions for public performance. Students will both act and assist with technical work and production management. TA 19B is an open-entry/open-exit course and is equivalent to the second half of TA 19. TA 19 (or TA 19A and 19B) may be taken once for a total of 2 units. Students are limited to taking four of the rehearsal and performance courses (TA 15, TA 16, TA 17, TA 18, or TA 19) for a maximum of 8 units. C-ID: THTR 191. *NR*

## **TA 20 THEATRE APPRECIATION-CLASSICAL OVERVIEW**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course examines theatre history, the role of the actor and director, and exemplary plays from the ancient Greek through the 19th century. Students may be required to attend scheduled field trips to community and professional theatre performances, and to evaluate and critique productions. *NR*

## **TA 21 THEATRE APPRECIATION-CONTEMPORARY**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course studies important playwrights, genres, and technical aspects of 20th century, 21st century, and contemporary theatre. Students may be required to attend scheduled field trips to community and professional theatre performances, and to evaluate and critique productions. *NR*

## **TA 22 INTRODUCTION TO THEATER**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course focuses on the relationship of theater to various cultures throughout history, and on the contributions of significant individual artists. This course introduces students to elements of the production process including playwriting, acting, directing, design, and criticism. Students will also survey different periods, styles and genres of theater through play reading, discussion, films and viewing and critiquing live theater, including required attendance of theater productions outside of normal class time. C-ID: THTR 111. *NR*

## **TA 25 GREAT PLAYS: PRIMITIVE TO RENAISSANCE**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This reading and discussion course studies significant plays from the major eras of world drama, from primitive ritual through the 17th century. The course traces the development of the play in themes, characterization, and dramatic structure, considering philosophical and cultural backgrounds and production styles that have influenced the staging of plays. Field trips may be required. Credit may be earned in either TA 25 or TA 25H, but not both. C-ID: THTR 113. *NR*

## **TA 25H GREAT PLAYS: PRIMITIVE TO RENAISSANCE HONORS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: WR 1

This reading and discussion course studies significant plays from the major eras of world drama, from primitive ritual through the 17th century. The course traces the development of the play in themes, characterization, and dramatic structure, considering philosophical and cultural backgrounds and production styles that have influenced the staging of plays. Field trips may be required. In this honors course student writing assignments are more rigorous than in the non-honors course. Topics covered in more depth compared to the standard course may include acting, Shakespeare or stagecraft. Credit may be earned in either TA 25 or 25H, but not both. C-ID: THTR 113. *NR*

## **TA 26 GREAT PLAYS: RENAISSANCE TO CONTEMPORARY**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This reading and discussion course studies significant plays from the major eras of world drama, from the 18th century to contemporary works. The course traces the development of the play in themes, characterization, and dramatic structure



considering philosophical and cultural backgrounds and production styles that have influenced the staging of plays. Field trips may be required. Credit may be earned in either TA 26 or TA 26H, but not both. *NR*

## **TA 26H GREAT PLAYS: RENAISSANCE TO CONTEMPORARY HONORS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Recommended Preparation: WR 1 or WR 1H

This reading and discussion course studies significant plays from the major eras of world drama, from the 18th century to contemporary works. The course traces the development of the play in themes, characterization, and dramatic structure considering philosophical and cultural backgrounds and production styles that have influenced the staging of plays. Field trips may be required. In this honors course student writing assignments are more rigorous than in the non-honors course. Topics covered in more depth than the standard course may include acting, directing or stagecraft. Credit may be earned in either TA 26 or 26H, but not both. *NR*

## **TA 27 INTRODUCTION TO FINE ARTS IN THEATER**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This course offers an introduction to the discipline of the fine arts that are found in theater, including studio art, dance, film, video, and music. The course will explore various topics that unite all theater arts, including terminology, aesthetics, themes, objective and subjective analysis, and techniques of the critique. Participation in field trips may be required. *NR*

## **TA 29 SCRIPT ANALYSIS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

In this course students fully explore an in-depth methodology for reading, analyzing and understanding play scripts intended for production in a variety of genres and styles. Students investigate techniques used to read a play for its structure, scrutinizing the playwright's methods of creating theatre through plot, character and imagery. Students examine play scripts from both an artist's and an audience member's point of view. Contrasts with other forms of literature are also considered. Credit may be earned in TA 29 or 29H, but not both. *NR*

## **TA 29H SCRIPT ANALYSIS: HONORS**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC credit pending*

Recommended Preparation: WR 1 or WR 1H

In this course students fully explore an in-depth methodology for reading, analyzing and understanding play scripts intended for production in a variety of genres and styles. Students investigate techniques used to read a play for its structure, scrutinizing the playwright's methods of creating theatre through plot, character and imagery. Students examine play scripts from both an artist's and an audience member's point of view. Contrasts with other forms of literature are also considered. Additional content for the honors course includes topics such as archetypal, feminist, and psychological frameworks. Non-realistic plays are also considered. Honors sections include field trips or guest speakers. Credit may be earned in TA 29 or 29H, but not both. *NR*

## **TA 30 INTRODUCTION TO ORAL INTERPRETATION**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This is a course in the presentation of literature. Students apply basic physical and vocal performance techniques to prose, poetry, and drama. The course includes the study of literary craft, a vital part of oral presentation. TA 30 is also listed as COMM 30; credit will be given in either area, not both. *NR*

## **TA 35 VOICE AND DICTION**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

In this course students study the principles and practices of vocal and articulatory development and control. The course provides drills in phonation and drills for clarity, ease in articulation, resonance, and vocal variety. TA 35 is also listed as COMM 35; credit will be given in either area, not both. *NR*

## **TA 40 INTRODUCTION TO THEATRE DESIGN**

### **3 Units - 2 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

This course explores the elements of scenic, costume, makeup, sound and lighting design in theater. Emphasis is placed on practical skills needed by theater designers, including drawing, drafting, script analysis and research. Students are required to attend theatrical productions outside of normal class time. TA 40 was formerly offered as TA 40B. C-ID: THTR 172. *NR*

## **TA 41 STAGE LIGHTING DESIGN**

### **3 Units - 2 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

This course introduces the theory and practice of stage lighting. The course covers lighting instruments and controls; the aesthetics of color; the distribution, intensity, and movement of light; and basic principles of electricity. Students gain practical experience in the work of lighting technicians for theatrical productions. C-ID: THTR 173. *NR*

## **TA 42 COSTUME DESIGN**

### **3 Units - 2 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

This course studies the principles of costume design, the basic process of design and costume construction, character analysis, and rendering techniques. Lectures include a survey of fashion history and a study of textiles. C-ID: THTR 174. *NR*

## **TA 43 SCENIC DESIGN FOR THE THEATRE**

### **2 Units - 1.5 hours lecture, 1.5 hours lab**

*Transfers: CSU, UC*

This course introduces the principles and techniques of scenic design, stressing the design process and the dramatic use of space. The course explores the particular media, floor plan development, scale model making, rendering techniques, manual and computer aided drafting, and computer applications for set designers. Projects focus on the interpretation of plays through scenic elements. TA 43 was formerly offered as TA 40C. *NR*

## **TA 44 STAGECRAFT**

### **3 Units - 2 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

TA 44 is an introduction to technical theater and the creation of scenic elements. Topics include the basic concepts and theories of design, painting techniques, set construction, set movement, prop construction, backstage organization, and career possibilities. C-ID: THTR 171. *NR*

## **TA 47 SOUND REINFORCEMENT FOR LIVE ENTERTAINMENT**

### **3 Units - 2 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

This course examines the science of sound reinforcement and use of audio equipment for theatrical performances, concerts and

other live events. Students study the aesthetics of sound in live performance and learn the technology of mixing consoles, speaker placement, microphone techniques, room equalization, reverb, delay, and other effects. Participation in field trips may be required. *NR*

## **TA 48A BEGINNING STAGE MANAGEMENT**

### **3 Units - 3 hours lecture**

*Transfers: CSU, UC*

This lecture course covers fundamental topics in stage and production management including, management theory, production hierarchy, safety protocols, and house management. Management of a broad range of live entertainment is covered. Coursework is modeled after professional practices in America's regional theaters including an in-depth look at Actor's Equity Association guidelines. *NR*

## **TA 48B INTERMEDIATE STAGE MANAGEMENT**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

Recommended Preparation: TA 48A

This practicum course is focused on the responsibilities of the Assistant Stage Manager. Students will play a critical role in the rehearsal and performance process of a live production at the college Performing Arts Center. Students work with actors and stagehands. Coursework is modeled after professional practices in America's regional theaters. C-ID: THTR 192. *NR*

## **TA 48C ADVANCED STAGE MANAGEMENT**

### **1 Unit - 3 hours lab**

*Transfers: CSU, UC*

*Limitation: Application must be approved by department chair*

Recommended Preparation: TA 48A

This applied stage management course provides practical experience managing a live production at the college Performing Arts Center. Each student works with faculty mentors to lead a cast, crew and artistic team through rehearsals and ultimately a series of performances. Rehearsals and performances are modeled after professional practices in America's regional theaters. C-ID: THTR 192. *NR*

## **TA 49 STAGE MAKEUP DESIGN**

### **3 Units - 2 hours lecture, 3 hours lab**

*Transfers: CSU, UC*

Students in this course will receive instruction and practice in all phases of makeup specifically designed for theatrical use. Course topics include: character analysis, design documentation, airbrush techniques, facial hair application, skin preparation, hairstyling, safety and hygiene. C-ID: THTR 175. *NR*

## **TA 140 INTRODUCTION TO TECHNICAL THEATER**

### **3 Units - 2 hours lecture, 3 hours lab**

*Transfers: CSU*

This course provides students with basic skills in stage lighting, live audio, stage scenery construction and scenic painting. Students learn to read and create design documentation such as ground plans and lighting plots. Elements of shop safety and safe use of materials is also covered. Field trips may be required. *NR*

## **TA 141A THEATRE CREW: SCENIC**

### **1 Unit - 3 hours lab**

*Transfers: CSU*

Students in this laboratory course learn the skills of a professional stagehand by participating in a theater department production. Students will learn about strategizing scenic shifts for accuracy and efficiency. Students will move and operate stage scenery in rehearsal and performance. C-ID: THTR 192. *NR*

### **TA 141B THEATRE CREW: COSTUME**

#### **1 Unit - 3 hours lab**

*Transfers: CSU*

Students in this laboratory course learn professional skills in wardrobe by participating in a theater department production. Students learn practical knowledge and experience necessary to work backstage preparing, changing, and maintaining, costumes before and during performances. C-ID: THTR 192. *NR*

### **TA 141C THEATRE CREW: LIGHTING**

#### **1 Unit - 3 hours lab**

*Transfers: CSU*

Students in this laboratory course learn the skills of a professional lighting technician by participating in a theater department production. Students will operate lighting equipment in rehearsal and performance. C-ID: THTR 192. *NR*

### **TA 141D THEATRE CREW: AUDIO/VIDEO**

#### **1 Unit - 3 hours lab**

*Transfers: CSU*

Students in this laboratory course learn the skills of a professional audio/video technician by participating in a theater department production. Students will operate audio or video equipment in rehearsal and performance. C-ID: THTR 192. *NR*

### **TA 141E THEATRE CREW: MAKE-UP**

#### **1 Unit - 3 hours lab**

*Transfers: CSU*

Students in this laboratory course learn the skills of a professional make-up technician by participating in a theater department production. Students will organize and apply make-up in rehearsal and performance. C-ID: THTR 192. *NR*

### **TA 142A SCENIC PRODUCTION A**

#### **1 Unit - 3 hours lab**

*Transfers: CSU*

This laboratory course offers students an opportunity to develop technical theatre skills by working on shows in production during the semester. The course focuses on basic production tools and materials used to construct a set. *NR*

### **TA 142B SCENIC PRODUCTION B**

#### **2 Units - 6 hours lab**

*Transfers: CSU*

This laboratory course offers students an opportunity to develop technical theatre skills by working on shows in production during the semester. The course covers the tools, materials, and techniques used in the construction of stage scenery. In addition, basics of stage rigging and scene painting are covered. *NR*

### **TA 142C SCENIC PRODUCTION C**

#### **3 Units - 9 hours lab**

*Transfers: CSU*

This laboratory course offers students an opportunity to develop technical theater skills by working on shows in production during the semester. The course covers the tools, materials, and techniques used in the construction of stage scenery. In addition, basics of stage rigging and scene painting are covered. Students also have the opportunity to participate in performances as part of the stage crew. C-ID: THTR 192. *NR*

## **TA 143 COSTUME SEWING**

### **1 Unit - 3 hours lab**

*Transfers: CSU*

This practicum course covers the fundamentals of costume construction and its integration into live performances. Students learn basic hand sewing, machine sewing, and garment care. Students develop skills in measuring, marking, and basic alterations. Techniques for measuring the body to determine size are also covered. *NR*

## **TA 145 SCENE PAINTING**

### **3 Units - 2 hours lecture, 3 hours lab**

*Transfers: CSU*

This course introduces students to techniques and materials used in the painting of scenery for the stage. Students learn techniques of faux painting, trompe l'oeil (trick the eye), and decorative motifs for theater. This course will include use of brush, roller, spray gun, texturing, rock background, wood graining, wallpaper, masonry, scenic backdrops and other scene painting techniques. Students study of the principles of color, paint mixing techniques, as well as the various types of paints used in the theater. Procedures for safe material usage and disposal are also covered. *NR*

## **TA 153 COSTUME SEWING AND PRODUCTION**

### **2 Units - 6 hours lab**

*Transfers: CSU*

This practicum course covers the fundamentals of costume construction and its integration into live performances. In addition to learning basic hand and machine sewing, students expand skills in seaming, closures, hemming, and other construction techniques. Students learn to interpret design criteria while working on costumes for theater department productions. *NR*

## **TA 163 COSTUME SEWING, PRODUCTION AND WARDROBE**

### **3 Units - 9 hours lab**

*Transfers: CSU*

This practicum course covers the fundamentals of costume construction and its integration into live performances. In addition to learning hand and machine sewing students develop skills in seaming, closures, hemming and other costume construction techniques. Class projects involve building garments for theater department productions. Students study garment care and maintenance, emergency repairs, and quick costume change systemics. Students may serve as wardrobe crew on department productions. *NR*

## **TA 168 COOPERATIVE WORK EXPERIENCE: LIVE ENTERTAINMENT**

### **1 Unit - 1 hour lab**

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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. *NR*

## **TA 168 COOPERATIVE WORK EXPERIENCE: LIVE ENTERTAINMENT**

### **2 Units - 2 hours lab**

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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. *NR*

## **TA 168 COOPERATIVE WORK EXPERIENCE: LIVE ENTERTAINMENT**

### **3 Units - 3 hours lab**

*Transfers: CSU*

*Limitation: Application must be approved by CWE coordinator.*

This course provides students an opportunity for supervised work experience. Students extend their classroom-based occupational learning by working at a job related to their major and to their occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit will be 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. *NR*

## **TA 241A IRVINE VALLEY CONSERVATORY**

### **6 Units - 18 hours lab**

*Limitation: By audition only*

This saturation course is an intensive program offered for the superior career-oriented student. By utilizing the conservatory method of education, guest artists, staff, and more mature student artists will educate the less experienced students in a continuing program of rehearsal, self-analysis, discussion, lecture, and performance. The student may be team-taught by company artists who are professionally competent in their particular area of specialty. *NR*

## **TA 241B IRVINE VALLEY CONSERVATORY**

### **3 Units - 10 hours lab**

*Limitation: By audition only*

This saturation course is an intensive program offered for the superior career-oriented student. By utilizing the conservatory method of education, guest artists, staff, and more mature student artists will educate the less experienced students in a continuing program of rehearsal, self-analysis, discussion, lecture, and performance. The student may be team-taught by company artists who are professionally competent in their particular area of specialty. *NR*

## **TA 241C IRVINE VALLEY CONSERVATORY**

### **1 Unit - 4 hours lab**

*Limitation: By audition only*

This saturation course is an intensive program offered for the superior career-oriented student. By utilizing the conservatory method of education, guest artists, staff, and more mature student artists will educate the less experienced students in a continuing program of rehearsal, self-analysis, discussion, lecture, and performance. The student may be team-taught by company artists who are professionally competent in their particular area of specialty. *NR*

## **Tutoring**

## **TU 100 FUNDAMENTALS OF PEER TUTORING**

**2 Units - 1 hour lecture, 2 hours lab**

*Transfers: CSU*

Recommended Preparation: Letter of Recommendation

Tutoring 100 is a general introduction to the role the tutor plays in education. The course focuses on the practical skills necessary to function effectively as a peer tutor in the student/tutee's chosen area of study. The course discusses individual differences in learning styles and stresses the importance of encouraging independence and good study habits. Students receive training in listening, assertiveness and other human relations techniques applicable to peer tutoring. Course content includes discussion of learning disabilities, tutoring second language learners, and understanding cultural differences. Students will participate in 32 hours of supervised tutoring in the college's Learning Center. *NR*

## **TU 301 SUPERVISED TUTORING**

**0 Units - 3 hours learning center 3 hours learning center**

*Limitation: Must be referred by a counselor or an instructor*

This course is designed to facilitate student learning by offering tutoring and supplemental instruction in a variety of subjects to facilitate the development of learning strategies. Tutors are trained in tutoring techniques. The course is recommended for all students experiencing difficulty in mastering study skills and concepts in their academic courses. Generally, tutoring is in small group settings. It is an open-entry/open-exit course. *R-E-99*

# **Writing**

## **WR 1 COLLEGE WRITING 1**

**4 Units - 4 hours lecture**

*Transfers: CSU, UC*

Prerequisite: WR 201, ESL 201, or WR 399

Writing 1 is an introductory course in college composition, concentrating on analysis and interpretation. The course focuses on how the student writer might present and develop a particular point of view in a clear, logical, and convincing manner. Students read from a variety of texts offering different ideas, traditions, contexts, and cultural perspectives. Students then write essays in response to issues and concerns derived from a critical reading of those texts, taking into account the writer's audience, point of view, purpose and tone. The course features extensive individual and small-group instruction in composition, and extensive practice in writing (totaling at least 8,000 words). Credit may be earned in either WR 1 or 1H, but not both. C-ID: ENGL 100. *NR*

## **WR 1H COLLEGE WRITING 1 HONORS**

**4 Units - 4 hours lecture**

*Transfers: CSU, UC*

Prerequisite: WR 201, ESL 201, or WR 399

Writing 1 Honors is an enriched introductory course in college composition, concentrating on analysis and interpretation. The course focuses on how the student writer might present and develop a particular point of view in a clear, logical, and convincing manner. Students read from a variety of texts offering different ideas and perspectives, and write essays in response to a critical reading of those texts, taking into account the writer's audience, point of view, purpose and tone. The course features extensive individual and small-group instruction in composition and extensive practice in writing (totaling at least 8,000 words). The course is enriched through smaller class size and more extensive and rigorous reading, writing, and research assignments. Credit may be earned in either WR 1 or 1H, but not both. C-ID: ENGL 100. *NR*

## **WR 2 COLLEGE WRITING 2: CRITICAL THINKING, WRITING**

**4 Units - 4 hours lecture**

*Transfers: CSU, UC*

Prerequisite: WR 1 or WR 1H

WR 2, the second college-level course in academic essay writing, concentrates on critical reasoning, argumentation, evaluation, analysis, and research at an advanced level. Students write and critique argumentative essays in response to assigned readings from a diversity of traditions representing a diversity of intellectual and cultural perspectives. Credit may be earned in either WR 2 or WR 2H, but not both. C-ID: ENGL 105. *NR*

**WR 2H COLLEGE WRITING 2: CRITICAL THINKING, WRITING HONORS****4 Units - 4 hours lecture**

*Transfers: CSU, UC*

Prerequisite: WR 1 or WR 1H

WR 2, the second college-level course in academic essay writing, concentrates on critical reasoning, argumentation, evaluation, analysis, and research at an advanced level. Students write and critique argumentative essays in response to assigned readings from a diversity of traditions representing a diversity of intellectual and cultural perspectives. This course will offer enriched opportunities through limited class size, seminar format, more extensive reading and research assignments, and a formal in-class presentation of an independent research assignment appropriate for an academic conference. Credit may be earned in either WR 2 or 2H, but not both. *NR*

**WR 10 INTRODUCTION TO CREATIVE WRITING****3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Prerequisite: WR 201 or WR 399

This course introduces students to the fundamental conventions of poetry and fiction, both as readers and as writers. Students write original poems and short fiction and critically evaluate writing in a workshop atmosphere. C-ID: ENGL 200. *NR*

**WR 11 WRITING SHORT FICTION****3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Prerequisite: WR 201 or WR 399

Writing 11 is designed for student writers of short fictional narratives. Students will study the fundamentals of short fiction, write original fiction and evaluate the work of other student writers in a workshop setting. *NR*

**WR 13 WRITING POETRY****3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Prerequisite: WR 201

Writing 13 provides instruction in the craft of writing poetry for both the beginning and the experienced writer. The course is organized and taught in the form of a traditional writer's workshop, a directed forum in which students read, discuss, and critique the poems they have written in response to weekly assignments. Students study modern and contemporary poems for evidence of poetic techniques put into practice. Students are thus directed to read closely, to write consciously, and to recognize a well-written poem. *NR*

**WR 14 INTERMEDIATE POETRY****3 Units - 3 hours lecture**

*Transfers: CSU, UC*

Prerequisite: WR 201, WR 399, or ESL 201

Recommended Preparation: WR 13



Writing 14 provides instruction in the craft of writing poetry for writers with some experience. The course is organized around lecture and workshop, a directed forum in which students read, discuss, and critique their poems and the poems of others. Intermediate students help direct the investigation and conversations about poetic craft techniques through study of already published poems, and further develop their abilities to recognize and produce well-crafted, publishable poems. *NR*

## **WR 181 WRITING CONFERENCE**

**0.5 Unit - 1.5 hours learning center 1.5 hours learning center**

*Transfers: CSU*

Corequisite: WR 1 or WR 1H

This open-entry/open-exit, pass/no-pass course offers one-on-one conference instruction with English instructors for students in WR 1 or WR 1H. Students must complete 24 hours in the Writing Center during the semester in order to receive credit. *R-E-3*

## **WR 182 WRITING CONFERENCE**

**0.5 Unit - 1.5 hours learning center 1.5 hours learning center**

*Transfers: CSU*

Corequisite: WR 2 or WR 2H

This open-entry/open-exit, pass/no-pass course offers one-on-one conference instruction with English instructors for students in Writing 2. Students must complete 24 hours in the Writing Center during the semester in order to receive credit. *R-E-3*

## **WR 201 INTRODUCTION TO COLLEGE WRITING**

**3 Units - 3 hours lecture**

Prerequisite: WR 301

Corequisite: WR 280

This is an introductory course in the basic conventions and expectations of college essay writing. Students write essays in response to assigned readings from a range of college-level texts. The course covers how to state and support a thesis, develop unified and coherent supporting paragraphs, organize an essay, and write clear and effective sentences. The course also introduces students to critical reading, reasoning, and writing. *NR*

## **WR 280 WRITING CONFERENCE**

**0.5 Unit - 1.5 hours learning center 1.5 hours learning center**

Corequisite: WR 201

This pass/no-pass corequisite course offers one-on-one conference instruction with English instructors for students enrolled in WR 201. Students must spend at least 24 hours in the Writing Center during the semester and participate in no less than four conferences in order to receive credit. *R-E-3*

## **WR 301 INTRODUCTION TO BASIC WRITING**

**3 Units - 3 hours lecture**

Corequisite: WR 380

This is an introductory course designed to develop skills in the basic conventions of writing. Students employ a text-based, process-centered approach to writing to a variety of audiences and for a variety of purposes: to observe, to integrate, to communicate, and to convince. The course emphasizes paragraph unity, coherence, cohesion, and development, building towards writing a focused, organized, developed essay. The course further covers how to explore, evaluate, organize, and state and support ideas taking into consideration the writer's audience and purpose. *NR*

## **WR 302 COLLEGE WRITING SKILLS AND SUPPORT**

**2 Units - 2 hours lecture**

Corequisite: WR 1 and WR 181

*Limitation: Eligibility for WR 201*

Students placed into WR 201 may instead choose to enroll in WR 302, a supplemental writing course taught in conjunction with WR 1. WR 302 provides instruction in the basic conventions of college essay writing to supplement the concurrent WR 1 course. In WR 302, students receive additional support for topics covered in WR 1. Successful completion of WR 302 and WR 1 allows the student to enroll in WR 2. *NR*

## **WR 380 WRITING CONFERENCE**

**0.5 Unit - 1.5 hours learning center 1.5 hours learning center**

Corequisite: WR 301 or WR 399

This pass/no-pass corequisite course offers one-on-one conference instruction with English instructors for students enrolled in WR 301 or WR 399. Students must spend at least 24 hours in the Writing Center during the semester and participate in no fewer than four conferences in order to receive credit. *R-E-3*

## **WR 399 ACCELERATED INTRODUCTION TO COLLEGE WRITING**

**5 Units - 5 hours lecture**

Prerequisite: RD 370

Corequisite: WR 380

This is an accelerated course that combines WR 301 and WR 201 and is designed to develop skills in the basic conventions and expectations of college essay writing. It introduces students to critical reading, writing, and reasoning. Students employ a text-based, process-centered approach to writing essays in response to assigned readings from a variety of college-level texts. This course covers how to state and support a thesis, develop unified and coherent paragraphs as part of an organized essay, and write clear and effective sentences. WR 399 was formerly offered as EXP 389 and is equivalent to WR 201 and ESL 201 ; credit will be given in one only, not all. Successful completion allows students to enroll in WR 1. *NR*