

CREATING OUR WORLD

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BUILDING BRIDGES

SANTA ANA COLLEGE

# CATALOG

2020-2021



## ANNOUNCEMENT OF COURSES

Each course is designated by a number. A descriptive title and the units allowed for the course follow the course number. Courses numbered 100 and above are university parallel courses and are offered for transfer to colleges and universities. [See page 46](#) Transferability of Courses. Courses numbered 100 and above followed by the letter "H" are university parallel courses for transfer to colleges and universities and are offered as part of the Santa Ana College Honors Program. Students enrolling in these courses must meet the designated prerequisites. Courses numbered less than 100 are not designed for transfer. Since these courses are not ordinarily offered in the universities and four-year colleges, they are

not always applicable to the requirements for the bachelor of arts or bachelor of science degrees; however, courses numbered below 100 are applicable to the associate degree unless preceded by the letter "N". Courses numbered less than 100 preceded by the letter "N" are not applicable to the associate degree and do not count toward graduation but do count toward course load.

Required sequences and frequency of course offerings as well as length of time required to obtain a degree or certificate can be found on the college website at

[sac.edu/academicaffairs/coursesequences](http://sac.edu/academicaffairs/coursesequences).

## COURSE IDENTIFICATION NUMBERING SYSTEM (C-ID)

The Course Identification Numbering System (C-ID) is a statewide numbering system 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 [assist.org](http://assist.org) to confirm how each college's course will be accepted at a particular four-year college or university for transfer credit.

C-ID	SAC COURSE	
<b>ACCT 110</b>	ACCT 101	Financial Accounting
<b>ACCT 120</b>	ACCT 102	Managerial Accounting
<b>AJ 110</b>	CJ 101 or CJ 101H	Introduction to Criminal Justice or Honors Introduction to Criminal Justice
<b>AJ 120</b>	CJ 103 or CJ 103H	Concepts of Criminal Law or Honors Concepts of Criminal Law
<b>AJ 122</b>	CJ 107 or PARA 107	Principles and Procedures in the Criminal Justice System
<b>AJ 124</b>	CJ 105	Legal Aspects of Evidence
<b>AJ 140</b>	CJ 205	Criminal Investigation Principles
<b>AJ 150</b>	CJ 108	Crime Scene Investigation
<b>AJ 160</b>	CJ 109 or CJ 109H	Community Interaction or Honors Community Interaction
<b>AJ 200</b>	CJ 102	Introduction to Corrections
<b>AJ 220</b>	CJ 220	Juvenile Delinquency and Control
<b>ANTH 110</b>	ANTH 101	Introduction to Physical Anthropology
<b>ANTH 120</b>	ANTH 100 or ANTH 100H	Introduction to Cultural Anthropology or Honors Introduction to Cultural Anthropology
<b>ANTH 130</b>	ENGL 104 or ENGL 104H or ANTH 104H	Language and Culture or Honors Language and Culture
<b>ANTH 150</b>	ANTH 103	Introduction to Archaeology
<b>ARTH 100</b>	ART 100 or ART 100H	Introduction to Art Concepts or Honors Introduction to Art Concepts
<b>ARTH 110</b>	ART 101	Survey of Western Art History I: Prehistory through the Middle Ages
<b>ARTH 120</b>	ART 102	Survey of Western Art History II: Renaissance through the Twentieth Century
<b>ARTH 130</b>	ART 106	Asian Art History
<b>ARTH 140</b>	ART 103	Arts of Africa, Oceania, and Indigenous North America
<b>ARTS 100</b>	ART 110	Two-Dimensional Design
<b>ARTS 101</b>	ART 111	Three-Dimensional Design
<b>ARTS 110</b>	ART 130	Introduction to Drawing
<b>ARTS 200</b>	ART 131	Beginning Life Drawing
<b>ARTS 205</b>	ART 230	Intermediate Drawing
<b>ARTS 250</b>	ART 195	Introduction to Digital Media Arts
<b>BIOL 110B</b>	BIOL 239	General Human Anatomy

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. Students may consult the C-ID website at [c-id.net](http://c-id.net) for specific information on C-ID course designations. Counselors can always help students interpret this information.

Additional SAC courses were pending C-ID approval at the time of catalog publication. Please consult a counselor for the latest C-ID information.

C-ID	SAC COURSE	
<b>BIOL 120B</b>	BIOL 249	Human Physiology
<b>BIOL 130S</b>	BIOL 212 + BIOL 214	Animal Diversity and Ecology + Plant Diversity and Evolution
<b>BIOL 190</b>	BIOL 211	Cellular and Molecular Biology
<b>BIOL 220</b>	BIOL 192	Biotech B: Proteins
<b>BIOT 1101 X</b>	BIOL 170 + BIOL 170L	Introduction to Biotechnology & Introduction to Biotechnology Lab
<b>BIOT 150 X</b>	BIOL 191 + BIOL 193	Biotech A: Basic Skills + Biotech C: Nucleic Acids
<b>BIOT 210 X</b>	BIOL 194	Quality and Regulatory Compliance in Biosciences
<b>BIOT 220 X</b>	BIOL 192	Biotech B: Proteins
<b>BUS 110</b>	BUS 100	Fundamentals of Business
<b>BUS 115</b>	BUS 222	Business Writing
<b>BUS 120</b>	BUS 105 or LAW 105	Legal Environment of Business
<b>BUS 125</b>	BUS 101	Business Law
<b>BUS 140</b>	BUS 150	Introduction to Information Systems and Applications
<b>CDEV 100</b>	CDEV 107	Child Growth and Development
<b>CDEV 100</b>	PSYC 157	Introduction to Child Psychology
<b>CDEV 110</b>	CDEV 110	Child, Family and Community
<b>CHEM 101</b>	CHEM 209	Introductory Chemistry
<b>CHEM 110</b>	CHEM 219 or CHEM 219H	General Chemistry or Honors General Chemistry
<b>CHEM 150</b>	CHEM 249	Organic Chemistry I
<b>CHEM 120S</b>	CHEM (219 or CHEM 219H) + CHEM 229	General Chemistry or Honors General Chemistry + General Chemistry and Qualitative Analysis
<b>CHEM 160S</b>	CHEM 249 + CHEM 259	Organic Chemistry I + Organic Chemistry II
<b>COMM 110</b>	CMST 102	Public Speaking
<b>COMM 120</b>	CMST 140	Argumentation and Debate
<b>COMM 130</b>	CMST 101 or CMST 101H	Introduction to Interpersonal Communication or Honors Introduction to Interpersonal Communication
<b>COMM 140</b>	CMST 145	Group Dynamics

C-ID	SAC COURSE	
<b>COMM 150</b>	CMST 103 or CMST 103H	Introduction to Intercultural Communication or Honors Introduction to Intercultural Communication
<b>COMM 170</b>	CMST 152	Oral Interpretation
<b>COMP 112</b>	CMPR 120	Introduction to Programming
<b>COMP 122</b>	CMPR 121	Programming Concepts
<b>COMP 132</b>	CMPR 131	Data Structures Concepts
<b>COMP 142</b>	CMPR 129	Introduction to Computer Organization
<b>COMP 152</b>	CMPR 140	Discrete Structures for Computer Science
<b>ECE 120</b>	CDEV 111A	Principles and Practices of Teaching Young Children
<b>ECE 130</b>	CDEV 111B	Introduction to Curriculum for Young Children
<b>ECE 200</b>	CDEV 108	Observation and Assessment for Early Learning and Development
<b>ECE 210</b>	CDEV 298A	Practicum in Early Childhood Programs
<b>ECE 220</b>	CDEV 112	Health, Safety and Nutrition for Children
<b>ECE 230</b>	CDEV 221	Living and Teaching in a Diverse Society
<b>ECON 201</b>	ECON 121	Principles/Micro
<b>ECON 202</b>	ECON 120	Principles/Macro
<b>EDUC 200</b>	EDUC 100	Introduction to Education
<b>ENGL 100</b>	ENGL 101 or ENGL 101H	Freshman Composition or Honors Freshman Composition
<b>ENGL 105</b>	ENGL 102 or ENGL 102H	Literature and Composition or Honors Literature and Composition
<b>ENGL 105</b>	ENGL 103 or ENGL 103H	Critical Thinking and Writing or Honors Critical Thinking and Writing
<b>ENGL 110</b>	ENGL 102 or ENGL 102H	Literature and Composition or Honors Literature and Composition
<b>ENGL 120</b>	ENGL 102 or ENGL 102H	Literature and Composition or Honors Literature and Composition
<b>ENGL 130</b>	ENGL 241	Survey of American Literature 1600-1865
<b>ENGL 135</b>	ENGL 242	Survey of American Literature 1865-Present
<b>ENGL 140</b>	ENGL 271	Survey of World Literature I
<b>ENGL 145</b>	ENGL 272	Survey of World Literature II
<b>ENGL 160</b>	ENGL 231	Survey of English Literature I
<b>ENGL 165</b>	ENGL 232	Survey of English Literature II
<b>ENGL 180</b>	ENGL 270	Children's Literature
<b>ENGL 200</b>	ENGL 213	Creative Writing
<b>ENGR 110</b>	ENGR 100A	Introduction to Engineering
<b>ENGR 130</b>	ENGR 235	Statics
<b>ENGR 150</b>	ENGR 125	Engineering Graphics
<b>ENGR 180</b>	ENGR 118	Surveying
<b>ENGR 230</b>	ENGR 240	Dynamics
<b>FIRE 100 X</b>	FTC 101	Fire Protection Organization
<b>FIRE 110 X</b>	FTC 104	Fire Prevention
<b>FIRE 120 X</b>	FTC 106	Fire Protection Systems

C-ID	SAC COURSE	
<b>FIRE 130 X</b>	FTC 105	Building Construction for Fire Protection
<b>FIRE 140 X</b>	FTC 102	Fire Behavior and Combustion
<b>FIRE 150 X</b>	FTC 103	Principles of Fire and Emergency Service Safety and Survival
<b>FTVE 130</b>	DM 115A	Single-Camera Production and Editing
<b>GEOG 110</b>	GEOG 101	Physical Geography
<b>GEOG 111</b>	GEOG 101L	Physical Geography Laboratory
<b>GEOG 120</b>	GEOG 102	Cultural Geography
<b>GEOG 125</b>	GEOG 100 or GEOG 100H	World Regional Geography or Honors World Regional Geography
<b>GEOG 130</b>	GEOG 130	Introduction to Weather and Climate
<b>GEOG 140</b>	GEOG 140	California Geography
<b>GEOG 155</b>	GEOG 155 or BA 150	Introduction to Geographic Information Systems
<b>GEOL 100</b>	GEOL 101	Introduction to Geology
<b>GEOL 100L</b>	GEOL 101L	Introduction to Geology Lab
<b>GEOL 111</b>	GEOL 201	Introduction to Historical Geology
<b>GEOL 120</b>	ERTH 110 or ERTH 110H	Introduction to Earth Science or Honors Introduction to Earth Science
<b>GEOL 130</b>	ENVR 140	Environmental Geology
<b>GEOL 130</b>	GEOL 140	Environmental Geology
<b>HIST 130</b>	HIST 120	The United States to 1865
<b>HIST 140</b>	HIST 121 or HIST 121H	The United States Since 1865 or Honors The United States Since 1865
<b>HIST 150</b>	HIST 101 or HIST 101H	World Civilizations to the 16th Century or Honors World Civilizations to the 16th Century
<b>HIST 160</b>	HIST 102 or HIST 102H	World Civilizations Since the 16th Century or Honors World Civilizations Since the 16th Century
<b>HOSP 110</b>	CULN 110	Food Safety and Sanitation
<b>ITIS 120</b>	BUS 150	Introduction to Information Systems and Applications
<b>JOUR 100</b>	CMSD 105 or CMSD 105H	Mass Media and Society or Honors Mass Media and Society
<b>JOUR 110</b>	CMSD 121	Introduction to Reporting and Newswriting
<b>JOUR 130</b>	CMSD 123A	News Media Production
<b>JOUR 131</b>	CMSD 123B	Intermediate News Media Production
<b>JOUR 160</b>	CMSD 160	Introduction to Photojournalism
<b>JOUR 170</b>	CMSD 103	Introduction to Visual Communication
<b>JOUR 210</b>	CMSD 210	Intermediate Reporting and Newswriting
<b>KIN 100</b>	KNPR 101	Introduction to Kinesiology
<b>KIN 101</b>	KNHE 106	Cardiopulmonary Resuscitation and First Aid
<b>KIN 101</b>	KNHE 105 + KNHE 107	First Aid and Personal Safety + Cardiopulmonary Resuscitation
<b>LPPS 100</b>	LAW 100	Introduction to Legal Studies
<b>MATH 110</b>	MATH 219 or MATH 219H	Statistics and Probability or Honors Statistics and Probability
<b>MATH 110</b>	MATH 221	Statistics and Probability with Support
<b>MATH 110</b>	PSYCH 210	Statistics for the Behavioral Sciences
<b>MATH 120</b>	MATH 204	Mathematical Concepts for Elementary School Teachers
<b>MATH 130</b>	MATH 145	Finite Mathematics

<b>C-ID</b>	<b>SAC COURSE</b>	
<b>MATH 140</b>	MATH 150	Calculus for Biological, Management, and Social Sciences
<b>MATH 155</b>	MATH 170	Pre-Calculus Mathematics
<b>MATH 210</b>	MATH 180 or MATH 180H	Single Variable Calculus I or Honors Single Variable Calculus I
<b>MATH 220</b>	MATH 185	Single Variable Calculus II
<b>MATH 230</b>	MATH 280	Intermediate Calculus
<b>MATH 851</b>	MATH 162	Trigonometry
<b>MATH 900S</b>	MATH (180 or 180H) + MATH 185	Single Variable Calculus I or Honors Single Variable Calculus I + Single Variable Calculus II
<b>MATH 910S</b>	MATH 287	Introduction to Linear Algebra and Differential Equations
<b>MUS 100</b>	MUS 101 or MUS 101H	Music Appreciation or Honors Music Appreciation
<b>MUS 110</b>	MUS 110	Music Fundamentals and Culture
<b>MUS 120</b>	MUS 111	Basic Music Theory and Musicianship I
<b>MUS 125</b>	MUS 111	Basic Music Theory and Musicianship I
<b>MUS 130</b>	MUS 112	Music Theory and Musicianship II
<b>MUS 135</b>	MUS 112	Music Theory and Musicianship II
<b>MUS 140</b>	MUS 213	Theory 3
<b>MUS 145</b>	MUS 114A	Musicianship
<b>MUS 150</b>	MUS 214	Theory 4
<b>MUS 155</b>	MUS 114B	Musicianship
<b>MUS 160</b>	MUS 115A	Applied Music (Private Instruction)
<b>MUS 160</b>	MUS 115B	Applied Music (Private Instruction)
<b>MUS 160</b>	MUS 115C	Applied Music (Private Instruction)
<b>MUS 160</b>	MUS 115D	Applied Music (Private Instruction)
<b>MUS 180</b>	MUS 135	Concert Chorale
<b>MUS 180</b>	MUS 137	Chamber Choir
<b>MUS 180</b>	MUS 171	Concert Band
<b>MUS 180</b>	MUS 175	Jazz Ensemble
<b>MUS 180</b>	MUS 181	Chamber Orchestra
<b>MUS 180</b>	MUS 271	Symphonic Band
<b>NUTR 110</b>	NUTR 115 or NUTR 115H	Nutrition or Honors Nutrition
<b>NUTR 120</b>	NUTR 116	Principles of Food Preparation
<b>PHIL 100</b>	PHIL 106 or PHIL 106H	Introduction to Philosophy or Honors Introduction to Philosophy
<b>PHIL 110</b>	PHIL 111	Introductory Logic
<b>PHIL 120</b>	PHIL 108	Ethics
<b>PHYS 105</b>	PHYS 210	Principles of Physics I
<b>PHYS 105</b>	PHYS 279	College Physics I
<b>PHYS 110</b>	PHYS 289	College Physics II
<b>PHYS 110</b>	PHYS 211	Principles of Physics II
<b>PHYS 205</b>	PHYS 210	Principles of Physics I
<b>PHYS 205</b>	PHYS 217	Engineering Physics I
<b>PHYS 210</b>	PHYS 227	Engineering Physics II
<b>POLS 110</b>	POLT 101 or POLT 101H	American Government and Politics or Honors American Government and Politics
<b>POLS 120</b>	POLT 200 or POLT 200H	American Political Thought or Honors American Political Thought
<b>POLS 130</b>	POLT 201	Introduction to Comparative Politics
<b>POLS 140</b>	POLT 220	International Politics

<b>C-ID</b>	<b>SAC COURSE</b>	
<b>PSY 110</b>	PSYC 100 or PSYC 100H	Introduction to Psychology or Honors Introduction to Psychology
<b>PSY 115</b>	PSYC 230	Psychology and Effective Behavior
<b>PSY 150</b>	PSYC 200	Introduction to Biological Psychology
<b>PSY 170</b>	PSYC 240	Introduction to Social Psychology
<b>PSY 170</b>	SOC 240	Introduction to Social Psychology
<b>PSY 180</b>	PSYC 180	Introduction to Lifespan Psychology
<b>PSY 200</b>	PSYC 219	Introduction to Research Methods in Psychology
<b>SJS 110</b>	ETHN 101 or ETHN 101H	Introduction to Ethnic Studies or Honors Introduction to Ethnic Studies
<b>SOCI 110</b>	SOC 100 or SOC 100H	Introduction to Sociology or Honors Introduction to Sociology
<b>SOCI 115</b>	SOC 140 or SOC 140H	Analysis of Social Trends and Problems or Honors Analysis of Social Trends and Problems
<b>SOCI 125</b>	PSYC 210	Statistics for the Behavioral Sciences
<b>SOCI 125</b>	MATH 219 or MATH 219H	Statistics and Probability or Honors Statistics and Probability
<b>SOCI 130</b>	SOC 112	Relationships, Marriages, and Family Dynamics
<b>SPAN 100</b>	SPAN 101 or SPAN 101H	Elementary Spanish I or Honors Elementary Spanish I
<b>SPAN 110</b>	SPAN 102 or SPAN 102H	Elementary Spanish II or Honors Elementary Spanish II
<b>SPAN 200</b>	SPAN 201 or SPAN 201H	Intermediate Spanish I or Honors Intermediate Spanish I
<b>SPAN 210</b>	SPAN 202 or SPAN 202H	Intermediate Spanish II or Honors Intermediate Spanish II
<b>THTR 111</b>	THEA 100	Introduction to Theatre
<b>THTR 113</b>	THEA 105	Theatre History I
<b>THTR 151</b>	THEA 110	Acting Fundamentals
<b>THTR 152</b>	THEA 111	Intermediate Acting
<b>THTR 171</b>	THEA 131	Stagecraft
<b>THTR 173</b>	THEA 133	Lighting Fundamentals
<b>THTR 174</b>	THEA 136	Fundamentals of Costume Design
<b>THTR 174</b>	FDM 136	Fundamentals of Costume Design
<b>THTR 175</b>	THEA 132	Stage Makeup
<b>THTR 191</b>	THEA 150	Theatre Production
<b>THTR 191</b>	THEA 150A	Rehearsal and Performance in Production
<b>THTR 191</b>	THEA 151	Showcase
<b>THTR 191</b>	THEA 152	Tour Ensemble
<b>THTR 191</b>	THEA 154	Performance Ensemble
<b>THTR 191</b>	THEA 155	Children's Theatre Ensemble
<b>THTR 192</b>	THEA 135	Technical Production
<b>THTR 192</b>	THEA 150	Theatre Production
<b>THTR 192</b>	THEA 150B	Technical Theatre in Production

**ACCOUNTING (ACCT)****ACCT 010****Accounting Procedures**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course introduces the students to the accounting cycle including journal entries, general ledger, the adjustment process, and the related financial statements. The course is designed to prepare students for Accounting 101 and/or occupations in bookkeeping.

**ACCT 032****Payroll Accounting**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This course covers accounting for payroll and worker's compensation. Calculation of payroll, payroll taxes, and the related forms and deposit requirements are covered.

**ACCT 035****QuickBooks I**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This is an introductory course on using Quickbooks software in the business environment for preparation of accounting information. The course will cover accounting theory and practical knowledge of QuickBooks on topics that include company file setup, customizing QuickBooks, recording customer and vendor transactions, bank reconciliations, creation of accounting reports and customization.

**ACCT 036****QuickBooks II**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This is an intermediate course on using QuickBooks software in the business environment for preparation of accounting information. Students will cover accounting theory and practical knowledge of QuickBooks on more advanced topics such as inventory management, time and billing, payroll setup, payroll processing, estimates and adjustments and year-end procedures. This course will assist in preparing students for the QuickBooks Certified User exam.

**ACCT 101 (C-ID ACCT 110)****Financial Accounting**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

The study of accounting as an information system, examining why it is important, and how it is used by investors and creditors to make decisions. Coverage includes the accounting information system and the recording and reporting of business transactions with a focus on the accounting cycle, the application of generally accepted accounting principles, the classified financial statements, and statement analysis. It also includes issues relating to asset, liability, and equity valuation, revenue and expense recognition, cash flow, internal controls and ethics. CSU/UC

**ACCT 102 (C-ID ACCT 120)****Managerial Accounting**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: ACCT 101 with a minimum grade of C.*

Study of the use and reporting of accounting data for managerial planning, cost control, and decision making purposes. The course includes broad coverage of concepts, classifications, and behaviors of costs. Topics include cost systems, the analysis and use of cost information, cost-volume-profit analysis, contribution margin, profit planning, standard costs, relevant costs, and capital budgeting. CSU/UC

**ACCT 104****Federal and California Taxes**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Learn how to prepare federal and California state income tax returns for the individual. Learn tax theory and rules behind the Form 1040 and the most common IRS Schedules, such as Schedules A, B, C, D, E, and common income adjustments and tax credits. This course is CTEC qualified. This course may be repeatable as continuing education for professional certification. CSU

**ACCT 106****Cooperative Work Experience Education - Occupational**

Unit(s): 1.0-4.0 Class Hours: 60.0-300.0 Lab total.

This work experience course of supervised employment is designed to assist students to acquire desirable work habits, attitudes and skills in a field related to the students' major so as to enable them to become productive employees. This course also provides students with career awareness for jobs. 75 hours of paid work or 60 hours of un-paid work equals one unit of course credit. Student repetition is allowed per Title 5, Section 55253. CSU

**ACCT 108****Tax Practices and Procedures**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The course covers various special topics in tax, including specialized returns and taxpayers; practices, procedures and representation before the IRS and completion of the tax filing process. This course may be repeatable as continuing education for professional certification. CSU

**ACCT 113****Intermediate Income Taxes - Corporations**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This course covers income tax theory, concepts and regulations relating to corporations. The course includes the federal and California tax systems and income taxation relating to Corporations as well as basic tax research and ethical implications. This course includes coverage of both C Corporations and S Corporations. CSU

**ACCT 114****Intermediate Income Taxes - Partnerships and LLCs**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This course covers income tax theory, concepts, and regulations relating to partnerships. The course includes the federal and California tax systems and income taxation relating to partnerships and other forms of business such as LLCs as well as basic tax research and ethical implications. CSU

**ACCT 124****Computerized Income Tax Preparation**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

This course provides a student with the practical knowledge of income tax preparation and the income tax formula using commercial tax software. CSU

### **ACCT 125**

#### **Volunteer Income Tax Assistance (VITA) I**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Recommended Preparation: ACCT 104 with a minimum grade of C.

This course will cover Federal and California individual income tax theories and laws to prepare students to successfully pass the IRS-provided online Basic, Advanced, and additional tax exams and be eligible to volunteer in the IRS-sponsored Volunteer Income Tax Assistance (VITA) program. The successful completion of the course and passing the exams will prepare students to work as an intern or volunteer at a VITA site to prepare tax returns and have face-to-face interaction with taxpayers. CSU

### **ACCT 198**

#### **Topics**

Unit(s): 1.0-4.0 Class Hours: 18.0-72.0 Lecture total.

Courses on a variety of contemporary topics will be offered to meet the interests and needs of students in Accounting. CSU

### **ACCT 204**

#### **Managerial Cost Accounting**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: ACCT 102 with a minimum grade of C.*

Study of cost behavior, cost accounting, and cost control; the use of accounting information for management planning and decision making; cost systems, budgeting, and financial performance analysis. CSU

### **ACCT 205**

#### **Intermediate Accounting I**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: ACCT 102 with a minimum grade of C.*

An intermediate study of accounting theory and the conceptual framework; preparation of income statements and comprehensive income, balance sheets and statements of cash flows. Coverage includes present value; and accounting concepts related to the asset side of the balance sheet. CSU

### **ACCT 206**

#### **Intermediate Accounting II**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: ACCT 205 with a minimum grade of C.*

Second course in intermediate series in financial accounting that covers current and long-term liabilities, income taxes, pensions and post-retirement benefits, leases, stockholders' equity, earnings per share, and statement of cash flows. In addition, changes and/or in accounting methods, accounting estimates, or reporting entity are analyzed. Disclosure issues in financial statements are also addressed. CSU

### **ACCT 210**

#### **Accounting Information Systems**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: ACCT 101 with a minimum grade of C.*

Introductory course to accounting information systems that applies accounting principles using database and spreadsheet software. Designed to develop employable accounting analysis skills; evaluate and compare commercial software; analyze financial statements and understand role of internal controls. CSU

### **ACCT 211**

#### **Auditing**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: ACCT 102 with a minimum grade of C.*

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, testing controls, and audit report formulation and communication. CSU

### **ACCT 212**

#### **Accountants' Ethics and Responsibilities**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Focuses on the foundations of ethics & the professional responsibilities of accountants & CPAs; including ethical behavior and responding to ethical dilemmas. Topical content will include relevant professional, ethical standards and regulations, as well as research and practice concerning challenging ethical situations. The course will focus on the discussion of ethical cases and study of professional ethical standards set forth by both the AICPA and California State Board of Accountancy. CSU

### **AMERICAN SIGN LANGUAGE (ASL)**

#### **ASL 110**

##### **American Sign Language I**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

This entry level course is designed to introduce students to American Sign Language (ASL) and fingerspelling as it is used within American Deaf culture. Instruction includes preparation for visual/gestural communication followed by intensive work on comprehension through receptive language skills, development of basic conversational skills, modeling of grammatical structures, and general information about American Deaf culture. Sign Language 110 is equivalent to two years of high school ASL. Students are required to attend at least one off-campus event. CSU/UC

#### **ASL 111**

##### **American Sign Language II**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: ASL 110 with a minimum grade of C.*

The second course in the study of American Sign Language (ASL) focuses on increased vocabulary development, intermediate comprehension and conversational skills, application of grammatical structures and practice in the receptive and expressive aspects of ASL, as well as appreciation of American Deaf culture, and history. Students are required to attend at least one off campus event. CSU/UC

#### **ASL 113**

##### **Introduction to Interpreting for the Deaf**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: ASL 210 with a minimum grade of C.*

The study of the history of sign language interpreting and the theoretical foundations and technical skills needed to interpret in professional settings for deaf and hard-of-hearing children and adults. The roles, responsibilities, and ethics of interpreters providing interpreting services in various professional settings will be examined. Students are required to attend two off campus events. CSU

**ASL 114****Classifiers, Fingerspelling, and Numbering**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: ASL 210 with a minimum grade of C.*

This course is designed to provide specialized instruction in the continued development of skills and application of expanded conceptualization of American Sign Language (ASL) classifiers, fingerspelling, and numbering concepts and further exploration and understanding of American Deaf culture. Expressive and receptive techniques will be emphasized. Students are required to attend one off campus event. CSU

**ASL 116****Introduction to Deaf Studies**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This is an introductory course exploring the cultural, educational, linguistic, and audiological experiences of people who are deaf, hard of hearing, deaf/blind, and late- deafened in America. Students will be exposed to historical and current perspectives in trends, philosophies, ideologies, and the Deaf community as a subculture of American society. CSU/UC

**ASL 210****American Sign Language III**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: ASL 111 with a minimum grade of C.*

The third course in the study of American Sign Language (ASL) emphasizes advanced ASL syntax, non-manual markers, vocabulary, and fingerspelling enabling students to participate in more complex conversations with Deaf community members. Students will have emphasis on expressive skills in narrative form. Students are required to attend at least one off campus event. CSU/UC

**ASL 211****American Sign Language IV**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: ASL 210 with a minimum grade of C.*

This course continues the study and development of American Sign Language receptive and expressive linguistic competence. Emphasis on production/conversational skills in American Sign Language, along with continued focus on grammatical and cultural features.

Students are required to attend at least one off campus event. CSU/UC

**ANTHROPOLOGY (ANTH)****ANTH 100 (C-ID ANTH 120)****Introduction to Cultural Anthropology**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A cross-cultural survey of the major areas of cultural anthropology including subsistence patterns, economic and political systems, family and kinship, religion, and cultural change. Also includes contemporary issues facing humankind such as the environment, resource depletion, ethnic conflict, globalization, and warfare. Emphasis is on understanding cultural diversity and cultural universals. Field trips may be required. CSU/UC

**ANTH 100H (C-ID ANTH 120)****Honors Introduction to Cultural Anthropology**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

Seminar style, content enriched for honors students, to provide a critical and extensive exploration of the major areas of cultural anthropology. Includes contemporary issues such as globalization, gender, and ethnic conflict. Field trips may be required. CSU/UC

**ANTH 101 (C-ID ANTH 110)****Introduction to Physical Anthropology**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to humankind's place in nature including evolutionary theory, principles of genetics, primate evolution and behavior, fossil evidence for human evolution, human biology and variation, growth and adaptability, and biomedical anthropology. Includes practical application of biological anthropology to human problems. CSU/UC

**ANTH 101L****Physical Anthropology Laboratory**

Unit(s): 1.0 Class Hours: 54.0 Lab total.

*Prerequisite: Anthropology 101 or concurrent enrollment.*

Laboratory exercises and experiments designed to explore and understand the primary areas of physical anthropology: evolutionary theory, principles of genetics, comparative anatomy, physiology, behavior and ecology of vertebrates with an emphasis on nonhuman primates, analysis of fossil evidence for human evolution, human biology and variation, growth and adaptability, and biomedical anthropology. Includes both traditional and virtual laboratory experiences. CSU/UC

**ANTH 103 (C-ID ANTH 150)****Introduction to Archaeology**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This is a survey course in world archaeology. Methods of archaeological survey and excavation will be discussed as well as past and current concepts and theories. Material remains such as lithics, bone, ceramics and ecofacts will be discussed as to how they can be interpreted into social, political, economic, religious, and ethnic terms. CSU/UC

**ANTH 104 (C-ID ANTH 130)****Language and Culture**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

General introduction to the processes of human communication emphasizing coextensive aspects of language and culture. Surveys core areas of linguistic anthropology: structural linguistics; biological basis of language; and sociolinguistics. Topics include acquisition of first and second languages, languages in contact, and the effects of both language and culture on inter/intra group communication. Languages spoken in the local area are used as basis of study. (Same as English 104.) CSU/UC



### **ANTH 104H (C-ID ANTH 130)**

#### **Honors Language and Culture**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

General introduction to the processes of human communication, emphasizing coextensive aspects of language and culture. Surveys core areas of linguistic anthropology: structural linguistics, biological basis of language, and sociolinguistics. Topics include acquisition of first and second languages, languages in contact, and the effects of both language and culture on inter/intra group communication. Languages spoken in the local area are used as basis of study. Requires individual research and oral presentation of readings in a seminar setting (Same as English 104H). CSU/UC

### **ANTH 105**

#### **Ancient Mesoamerican Civilization**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An archeological and ethnohistorical survey of the origin and development of pre-Columbian civilizations in ancient Mesoamerica from Paleo-Indian times to the Spanish conquest (Same as History 105). CSU/UC

### **ANTH 108**

#### **Religion, Magic, and Witchcraft**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to the anthropology of religion, magic, and witchcraft. A cross cultural study focusing on the beliefs and practices of early, non-western, and traditional religious systems with emphasis on the forms, functions, structures, symbolism, history, and evolution. CSU/UC

### **ANTH 125**

#### **Native Americans in the U.S.**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An historical and contemporary survey of Native Americans in the United States including the development of tribes and nations and the cultural practices of Native Americans today. Field trips may be required. (Same as History 125). CSU/UC

### **Art (ART)**

#### **ART 009**

##### **Art Lab**

Unit(s): 0.5 Class Hours: 27.0 Lab total.

An open lab for studio art students for the purpose of devoting additional hours outside of class time on projects. Projects, determined by class assignments, vary by semester. Twenty- four lab hours per semester earn .5 unit.

#### **ART 010**

##### **Advanced Art Lab**

Unit(s): 0.5 Class Hours: 27.0 Lab total.

An open lab for studio art students devoting additional hours on projects. Projects, determined by class assignments, vary by semester. 24 lab hours per semester earn .5 unit. Requires concurrent enrollment in another art course.

### **ART 011**

#### **Intro to 3D Modeling & Animation**

Unit(s): 0.5 Class Hours: 9.0 Lecture, 4.5 Lab total.

Introduction to digital 3D modeling & animation basics. This hands-on class will focus on modeling and animating a cartoon character and environment from an instructor provided drawing, using 3D Studio Max software. A combination of may be taken a maximum of four enrollments.

### **ART 100 (C-ID ARTH 100)**

#### **Introduction to Art Concepts**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A study of the visual arts in relation to both personal and cultural expressions. Fundamentals of visual organization, color theory, terminology, historical art movements and concepts will be studied. Required for art majors. CSU/UC

### **ART 100H (C-ID ARTH 100)**

#### **Honors Introduction to Art Concepts**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

Enriched exposure to a study of the visual arts in relation to personal and cultural expression with an emphasis on critical thinking and writing. Fundamentals of visual organization, color theory, terminology, historical art movements and concepts will be studied in a seminar format. CSU/UC

### **ART 101 (C-ID ARTH 110)**

#### **Survey of Western Art History I: Prehistory through the Middle Ages**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: ENGL 101 or ENGL 101H with a minimum grade of C.

The study of art from Prehistory through Middle Ages. Cultures and Civilizations are studied through visual imagery, lecture, class discussion, reading, research, and field trips. Recommended sequence of courses: Art 100, Art 101, Art 102. CSU/UC

### **ART 102 (C-ID ARTH 120)**

#### **Survey of Western Art History II: Renaissance through the Twentieth Century**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: ENGL 101 or ENGL 101H with a minimum grade of C.

The study of Western art history from the Renaissance through the 20th century. Art movements and individual painters, sculptors, architects, and printmakers will be presented within the context of the social, political, and intellectual histories of their respective periods. Required for art majors. CSU/UC

### **ART 103 (C-ID ARTH 140)**

#### **Arts of Africa, Oceania, and Indigenous North America**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

History and appreciation of the arts of Africa, Oceania, and indigenous North America. Examines the visual arts of these vast and varied cultures within socio-political, aesthetic, religious contexts and their impact on Western art in Europe and the Americas. CSU/UC

**ART 104****Mexican and Chicano Art History**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The history and appreciation of Mexican and Chicano art from the pre-Columbian to the present including the modern murals of Mexico and the United States. CSU/UC

**ART 105****History of Modern Art**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

History of painting, sculpture, architecture, prints, and applied arts from the late nineteenth century through the twentieth century. Covers the formal philosophic, spiritual, and historical background of art from Post Impressionism to Post Modernism. For general students and art majors. CSU/UC

**ART 106 (C-ID ARTH 130)****Asian Art History**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Historical survey of the visual arts of India, China, Japan, Korea and Southeast Asia. Includes relationship of Far Eastern philosophy and culture to artistic achievement. Emphasizes works of art in terms of style, technique, and content. CSU/UC

**ART 107****History of Animation**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Critical and historical survey of animation as a form of communication and cultural expression, from prehistoric origins to present digital formats. Animation history is studied in relation to the background for its creation in contemporary culture and society including the U.S.A., Europe, and Japan. Students analyze and evaluate a large cross-section of animated works. CSU/UC

**ART 108****Contemporary Art History: Art Since Mid- Twentieth Century**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A survey course exploring post World War II styles, trends, ideas, and innovations in architecture and the visual arts in Europe and North America with references to globalization. CSU/UC

**ART 109****Introduction to Woodworking**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

An introduction to the fundamentals of woodworking with a focus on wood as a medium for creative expression. Emphasizes knowledge of and proficiency with hard to soft woods; grain patterns; finishing techniques; fabrication; and joinery. Students learn and observe safety standards as they gain skills with hand tools, small power tools and larger machinery in the shop. CSU/UC

**ART 110 (C-ID ARTS 100)****Two-Dimensional Design**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Introduction to the principles and elements of two-dimensional design. Provides instruction in the fundamentals of visual communication including color theory, composition, and expression. Application of concepts through creative projects. Required for art majors. A combination of ART 110 and ART 111 may be taken a maximum of four enrollments. CSU/UC

**ART 111 (C-ID ARTS 101)****Three-Dimensional Design**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Fundamentals of visual organization as applied to objects in-the-round. Visual space problems, structure, and dimensional terminology through creative projects in various media. Required for art majors. A combination of ART 110 and ART 111 may be taken a maximum of four enrollments. CSU/UC

**ART 121A****Fundamentals of Typography**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

*Prerequisite: ART 195 with a minimum grade of C.*

Introduction to the use of type styles, appropriate type selection and their characteristics as a means toward understanding design and communication through type solutions. Projects will explore current graphics industry practices and standards, including the use of digital technology and traditional hand skills. A combination of ART 121A and ART 121B and ART 122 may be taken a maximum of four enrollments. CSU/UC

**ART 121B****Advanced Typography**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

*Prerequisite: ART 121A with a minimum grade of C.*

This course provides continued study in typography and appropriate type selection as a means for solving complex graphic design problems, such as illustrative type or multiple page layout using traditional hand skills, digital technology and portfolio presentations. A combination of ART 121A and ART 121B and ART 122 may be taken a maximum of four enrollments. CSU/UC

**ART 122****Graphic Design I**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

*Prerequisite: ART 195 with a minimum grade of C.*

Introduction to basic graphic design concepts, techniques and practices resulting in the production of effective visual communications. Projects combine text with images, using current industry standards and technology in print media and other design applications. Art 110, 162, 191A, and 192A recommended. A combination of ART 121A and ART 121B and ART 122 may be taken a maximum of four enrollments. CSU/UC

**ART 124****Gallery Production**

Unit(s): 2.0 Class Hours: 108.0 Lab total.

Instruction in preparation and installation of art exhibits, gallery management, and working on a museum exhibition staff. Includes lectures, visits to artists' studios, and opportunities to work on art shows in two college galleries. Field trips include visits to local galleries and behind-the-scenes museum tours of collections and exhibition preparation areas. A combination of Art 124, Art 133, Art 134, and Art 135 may be taken a maximum of four enrollments. CSU

**ART 125****Cooperative Work Experience - Occupational**

Unit(s): 1.0-4.0 Class Hours: 60.0-300.0 Lab total.

*Prerequisite: This course is major-specific. Students majoring in Digital Media Arts or Graphic Design must show evidence of 6 units of completed coursework within the fields of Digital Media Arts and/or Graphic Design. Please contact the instructor for assistance in developing a resume and online portfolio required to find work in this field.*

This work experience course of supervised employment is designed to assist students to acquire desirable work habits, attitudes and skills in a field related to the students' major to enable them to become productive employees. This course also provides students with career awareness of jobs. 75 hours of paid work or 60 hours of unpaid work equals one unit of course credit. Student repetition is allowed per Title 5, Section 55253. (Pass/No Pass Only) CSU

**ART 130 (C-ID ARTS 110)****Introduction to Drawing**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Introductory course in observational drawing, exploring line, form, proportion, composition, and a variety of media. Drawing from man-made and natural objects. Required for art majors. A combination of Art 130, Art 230, and Art 233 may be taken a maximum of four enrollments. CSU/UC

**ART 131 (C-ID ARTS 200)****Beginning Life Drawing**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Recommended Preparation: ART 130 with a minimum grade of C.

Introduction to drawing the human form by observing live models for studies in anatomy, structure, and composition. Exposure to traditional and contemporary figurative drawing while exploring media and methods. Required for art majors. A combination of ART 131, ART 231, ART 232, and ART 243 may be taken a maximum of four enrollments. CSU/UC

**ART 132A****Beginning Pastel Drawing and Painting**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

*Prerequisite: ART 130 with a minimum grade of C.*

Development of pastel drawing and painting skills using various techniques. Strong emphasis on color theory, value, and composition. Preparation of grounds using various papers. Study of historical and contemporary pastel styles and techniques. A combination of ART 132A and ART 132B may be taken a maximum of four enrollments. CSU/UC

**ART 132B****Intermediate Pastel Drawing and Painting**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

*Prerequisite: ART 132A with a minimum grade of C.*

Intensive exploration of contemporary uses of pastels Intermediate and advanced projects emphasizing pastel drawing/painting concepts in conjunction with other media. Emphasis on creative, personal expression, content, and style development. A combination of ART 132A and ART 132B may be taken a maximum of four enrollments. CSU/UC

**ART 133****Introduction to Gallery Production**

Unit(s): 2.0 Class Hours: 108.0 Lab total.

Introduction to the practices of art exhibit preparation and installation. Students will gain knowledge in the history and theory of art exhibition, as well as the current state of gallery management and museum work. Emphasis is on learning and utilizing industry- standard terminology, materials and tools. Students will move from observation to practical experience as they support the daily operations and special events of two college galleries. A combination of Art 124, Art 133, Art 134, and Art 135 may be taken a maximum of four enrollments. CSU

**ART 134****Intermediate Gallery Production**

Unit(s): 2.0 Class Hours: 108.0 Lab total.

*Prerequisite: ART 133 with a minimum grade of C.*

An intermediate course designed to build on knowledge and skills gained in Art 133.

Students have opportunities to increase experience with new exhibitions and installations. Emphasis is on solving art gallery problems using current industry-standard communication and practices. Visits to local galleries and behind-the-scenes museum tours of collections and exhibition preparation areas. Students will also use woodshop equipment to build pedestals as well as draft an exhibition proposal and artwork layout. A combination of may be taken a maximum of four enrollments. A combination of Art 124, Art 133, Art 134, and Art 135 may be taken a maximum of four enrollments. CSU

**ART 135****Advanced Gallery Production**

Unit(s): 2.0 Class Hours: 108.0 Lab total.

*Prerequisite: ART 134 with a minimum grade of C.*

Students produce a unique exhibition on campus using knowledge and skills gained in Art 133 and 134. Emphasis will be on independently curating, designing, lighting, writing didactic material, and publicizing their exhibition. A combination of Art 124, Art 133, Art 134, and Art 135 may be taken a maximum of four enrollments. CSU

**ART 140A****Watercolor Painting**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Introduction to watercolor painting as a creative art form with emphasis on transparent watercolor techniques. Course includes principles of composition and color theory, materials selection, tools, terminology, and various watercolor techniques. Students develop basic watercolor skills while painting from simple forms and progressing to a variety of subjects. A combination of ART 140A, ART 140B, ART 143, and ART 240 may be taken a maximum of four enrollments. CSU/UC

**ART 140B****Watercolor Painting**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

*Prerequisite: ART 140A with a minimum grade of C.*

A continuing course in transparent watercolor techniques providing the opportunity to advance the creativity of those with basic skills in watercolor. Further study of formal elements and composition while painting from varied subject matter. Emphasis on refinement of methods and techniques for more expressive painting. A combination of ART 140A, ART 140B, ART 143, and ART 240 may be taken a maximum of four enrollments. CSU/UC

**ART 141****Beginning Painting**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Recommended Preparation: ART 110 and ART 130 with a minimum grade of C.

Introduction to acrylic and/or water soluble oil painting as a creative art form with exposure to historical, traditional and contemporary painting styles. Course includes principles of composition and color theory, materials selection, tools, terminology, and techniques. Students develop basic skills painting a variety of subjects. Required for art majors. A combination of ART 141, ART 241, and ART 242 may be taken a maximum of four enrollments. CSU/UC

**ART 143****Landscape Watercolor**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

*Prerequisite: ART 140A with a minimum grade of C.*

Intermediate course in transparent watercolor using the Southern California landscape as studio and subject for paintings. Explores a variety of techniques, papers, brushes, and pigments. Further study of compositional/ conceptual elements leading to development of individual expression. A combination of ART 140A, ART 140B, ART 143, and ART 240 may be taken a maximum of four enrollments. CSU/UC

**ART 150****Primitive Pottery Techniques**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Primitive techniques in pottery construction and firing. Emphasizes handbuilt forms. Students will construct tools. Sawdust, raku, dung, low temperature salt, and other pit firings will be utilized. CSU/UC

**ART 151****Ceramics-Introductory Level**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Exploration of clay as a structural and creative material. Experiences include throwing on the potter's wheel and hand building. Instruction includes surface design, glazing, and experience in utilitarian forms. Students provide clay and tools. A combination of ART 151 and ART 152 and ART 153 may be taken a maximum of four enrollments. CSU/UC

**ART 152****Ceramics-Intermediate Throwing**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

*Prerequisite: ART 151 with a minimum grade of C.*

Further study of wheel thrown techniques with an emphasis on functional, utilitarian forms. Students provide own clay and tools. A combination of ART 151 and ART 152 and ART 153 may be taken a maximum of four enrollments. CSU/UC

**ART 153****Ceramics-Intermediate Handbuilding**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

*Prerequisite: ART 151 with a minimum grade of C.*

Further study of handbuilding techniques with emphasis on one-of-a-kind sculptural forms. Non-traditional alternatives to glazes are explored. Students provide own clay and tools. A combination of ART 151 and ART 152 and ART 153 may be taken a maximum of four enrollments. CSU/UC

**ART 154****Ceramics Summer Workshop**

Unit(s): 3.0 Class Hours: 27.0 Lecture, 81.0 Lab total.

*Prerequisite: ART 151 with a minimum grade of C.*

For intermediate/advanced students interested in a self-guided study/ exploration in the ceramic medium. Emphasizes technical aspects and artistic imageries. Invited artists will provide supplementary guidance. Students provide own clay and tools. CSU/UC

**ART 155****Plaster Mold Making**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

*Prerequisite: ART 151 with a minimum grade of C.*

Basic aspects of plaster of Paris mold making: production of molds from original models in order to reproduce those models; alteration of those plaster mold castings into a more artistic, personalized imagery. A combination of ART 155 and ART 157 may be taken a maximum of four enrollments. CSU/UC

**ART 156****Clay Calculation: An Approach in Color Study**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

*Prerequisite: ART 151 with a minimum grade of C.*

Basic uses of color clays as a decorative tool in making pottery forms. Techniques of sprigging, incising, inlay, and lamination are utilized with wheel-thrown, handbuilding, and plaster mold construction methods. A combination of ART 156 and ART 159A and ART 159B may be taken a maximum of four enrollments. CSU/UC

**ART 157****Ceramics-Raku and Saggar Firing Techniques**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

*Prerequisite: ART 151 with a minimum grade of C.*

Use of the potter's wheel and/or handbuilding techniques as methods for constructing vessel forms. Includes a study of surface coloration from natural organic materials. Several firing techniques will be utilized. A combination of ART 155 and ART 157 may be taken a maximum of four enrollments. CSU/UC

**ART 158****Ceramic Mural Project**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

*Prerequisite: ART 151 with a minimum grade of C.*

Students will work collaboratively to design, construction, and installation of a tile mural. Includes various techniques of surface textures, glaze colors, spatial compositions, and technical processes of installation. Students provide own clay and tools. Projects vary each semester. CSU/UC

**ART 159A****Ceramic Color Decoration: Low Temperature**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

*Prerequisite: ART 151 with a minimum grade of C.*

Exploration of surface color decoration on ceramic vessels. Emphasizes glazing techniques (low temperatures only) such as underglazes, lusters, engobes, sgraffito, decals, slip trailing, wax resist, burnishing and ceramic pencils/crayons. A combination of ART 156 and ART 159A and ART 159B may be taken a maximum of four enrollments. CSU/UC

**ART 159B****Ceramic Color Decoration: High Temperature**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

*Prerequisite: ART 151 with a minimum grade of C.*

Exploration of surface color decoration on ceramic vessels within the realm of high stoneware temperatures. Emphasizes glazing techniques such as marbling, feathering, mishima, brush decoration, stencils, stamp printing, spraying, slip painting, glaze trailing, wax resist, and terra sigallata. A combination of ART 156 and ART 159A and ART 159B may be taken a maximum of four enrollments. CSU/UC

**ART 162****Digital Illustration I**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

*Prerequisite: ART 195 with a minimum grade of C.*

Explores the essentials of Adobe design software and production tools for graphic designers. Focuses on professional studio techniques to master this essential design tool for the creation of sophisticated graphics. Emphasizes efficient workflow, technical proficiency and aesthetic judgment. Students produce portfolio-ready projects using a broad range of imaging skills. Primary software used includes Adobe Photoshop, supplemented with Adobe Illustrator and some time-based media software. A combination of Art 162, Art 191A, and Art 192A may be taken a maximum of four enrollments. CSU/UC

**ART 164****Web Design**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Introduction to web design using digital media tools; graphics, illustrations, text, sound, motion, using software programs for the web. Students research how software programs are used in business presentations, advertising, entertainment, and self-promotion. Overview of elements and principles of design and motion. CSU/UC

**ART 165****3D Character Animation**

Unit(s): 3.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

*Prerequisite: ART 197A or TELV 185 with a minimum grade of C.*

Instruction in the theories and practice of character animation using digital 3d software. A combination of Art 165, Art 167, Art 184, and Art 185 may be taken a maximum of four enrollments. CSU

**ART 166A****3D Texturing and Lighting Fundamentals**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

*Prerequisite: ART 196A with a minimum grade of C.*

Instruction in the fundamentals of making and applying surface textures and lighting effects for digital 3D objects and scenes as used in video games, interactive media, television, film, previz, product illustration, architectural and bioscience visualization. A combination of ART 166A and ART 180A may be taken a maximum of four enrollments. CSU/UC

**ART 166B****Texturing & Lighting Intermediate**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

*Prerequisite: ART 166A with a minimum grade of C.*

Instruction in intermediate making and applying surface textures and lighting effects in digital 3D scenes as used in video games, interactive media, television, film, previz, product illustration, architectural and bioscience visualization. Students are to work on projects geared to their chosen area of interest, and then are provided with instruction and guidance to increase proficiency, speed and communication skills required as a professional digital 3D artist. A combination of may be taken a maximum of four enrollments. CSU/UC

**ART 167****3D Commercial Applications**

Unit(s): 3.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

*Prerequisite: ART 197A or TELV 185 with a minimum grade of C.*

Capstone course focusing on developing 3D artwork for specific commercial purposes and formats. Includes field trips and developing a web-based portfolio. A combination of Art 165, Art 167, Art 184, and Art 185 may be taken a maximum of four enrollments. CSU

**ART 168****Graphic Design II: Branding & Identity**

Unit(s): 2.0 Class Hours: 36.0 Lecture, 18.0 Lab total.

*Prerequisite: ART 195 with a minimum grade of C.*

Recommended Preparation: 6 units of digital design-based coursework prior to enrollment.

A comprehensive design course serving as the capstone for all Digital Media Arts & Graphic Design programs. Students develop a career/ transfer-ready digital portfolio through team-based branding and identity design development for multiple media applications. Focus is on both business and personal branding. Career goals, resumes, online portfolios, interviewing skills and customer service needs are addressed. 6 units of digital media oriented coursework recommended. CSU

**ART 169****Game Design & Development Team**

Unit(s): 1.5 Class Hours: 9.0 Lecture, 54.0 Lab total.

*Prerequisite: ART 180A with a minimum grade of C.*

Students design and develop original video game projects in a team setting and in a simulated video game production studio setting. The working game(s) and/or working prototypes will be entered into the annual IEEE Intercollegiate Computer Game Competition. Can be repeated up to 3 times. CSU

**ART 180A****Video Game and Interactive Media Art Fundamentals**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite: ART 196A with a minimum grade of C.*

Hands-on overview of art production for games and interactive media. Focus on how to use digital 3D art for creating environments for games. Instruction in industry standard graphics software and techniques in art production from concept to finished art assets for games. A combination of ART 166A and ART 180A may be taken a maximum of four enrollments. CSU

**ART 182****Introduction to Jewelry**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Basic instruction in jewelry fabrication including silver soldering, direct casting and forging, patinas, cold connection, and piercing. A combination of ART 182 may be taken a maximum of four enrollments. A combination of ART 182, ART 282, ART 283, ART 284 and ART 285 may be taken a maximum of four enrollments. CSU

**ART 184****Art of Animation I**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Recommended Preparation: ART 130 with a minimum grade of C.

This course is a beginning-level animation production class for those with little or no prior animation or digital art experience. Through lectures and research projects, students learn about the history and aesthetics of animation, while concurrently gaining hands-on experience in how to create animations through in-class step-by-step projects. Students will produce basic 2D and 3D animations and assets using Adobe Photoshop, Gimp and 3D animation software. A combination of Art 165, Art 167, Art 184, and Art 185 may be taken a maximum of four enrollments. CSU/UC

**ART 185****Fundamentals of Cartooning and Storyboarding**

Unit(s): 3.0 Class Hours: 27.0 Lecture, 54.0 Lab total.

Introduction to basic cartooning, character development, and story boarding as used in television, film, and electronic games. Includes sketching, inking, the development of characters, storyboard development, and an overview of cartoon and storyboard history. A combination of Art 165, Art 167, Art 184, and Art 185 may be taken a maximum of four enrollments. CSU/UC

**ART 190****Introduction to Mural Painting and Design**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

A directed field studies course in designing and painting large-scale public art murals. Students will work collaboratively in groups and with the community to create designs. This class explores the various processes involved in the construction of large-scale public art while painting a variety of subject matter. Students will learn about historical, traditional and contemporary mural painting styles. CSU/UC

**ART 191A****Layout Design**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

An introduction to digital publishing and page layouts. Projects explore the design and development of single and multiple page documents. Includes advanced techniques in complex documents, interactive, and web- ready pages. Primary software: Adobe InDesign. A combination of Art 162, Art 191A, and Art 192A may be taken a maximum of four enrollments. CSU

**ART 192A****Digital Illustration II: Advanced Topics**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

*Prerequisite: ART 195 with a minimum grade of C.*

Examines intermediate design and illustration techniques using industry standard software via Adobe Creative Cloud. Addresses contemporary illustrative problems, concepts, and skills development within the digital media and graphic arts industries for creation of unique illustrations. Technical needs for graphic illustration for print, animation, and the web will also be addressed. Primary software: Adobe Illustrator, supplemented with Adobe Photoshop. A combination of Art 162, Art 191A, and Art 192A may be taken a maximum of four enrollments. CSU/UC

**ART 193****Motion Graphics with Adobe After Effects**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

This graphics animation course covers the development of original motion graphics. Video editing skills are refined within the animation software to create animated clips for use in multiple media applications. Some experience in non-linear digital video editing is recommended, as well as some graphic design experience. (Same as DM 193) CSU/UC

**ART 195 (C-ID ARTS 250)****Introduction to Digital Media Arts**

Unit(s): 3.0 Class Hours: 54.0 Lecture, 18.0 Lab total.

Foundation-level course designed for graphic designers, artists, photographers, web designers, programmers, and animation artists working in the digital realm. This course includes an overview of industry-standard software, including Adobe Creative Cloud for digital design in montage, vector, layout and time-based media. A combination of Art 195 may be taken a maximum of four enrollments CSU/UC

**ART 196A****3D Modeling Fundamentals**

Unit(s): 5.0 Class Hours: 54.0 Lecture, 108.0 Lab total.

*Prerequisite: ART 195 or ART 184 with a minimum grade of C.*

This is an introductory course in developing digital 3D art for video games, film, advertising and pre-visualization for product and architectural design. Focus is placed on building digital 3d characters, props and environments that will be used in students' own animated short film or video game ideas. By employing the teacher-provided project management tools, students gain hands-on experience in how animated and interactive media projects are developed. Industry-standard low and high poly modeling methods, which utilize normal map application, is emphasized to ensure optimized models with stunning detail. A combination of ART 196A and ART 197A may be taken a maximum of four enrollments. CSU/UC

**ART 196B****3D Modeling Intermediate**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

*Prerequisite: ART 196A with a minimum grade of C.*

Instruction in intermediate-level digital 3D modeling methods as used in video games, interactive media, television, film, previz, product illustration, architectural and bioscience visualization. Students are to model subjects geared to their chosen area of interest and then are provided instruction and guidance to increase proficiency, speed and communication skills required for professional 3D modelers. A combination of may be taken a maximum of four enrollments. CSU/UC

## **ART 197A**

### **3D Animation Fundamentals**

Unit(s): 5.0 Class Hours: 54.0 Lecture, 108.0 Lab total.

*Prerequisite: ART 196A with a minimum grade of C.*

Instruction in using 3D animation software for the purpose of linear storytelling. Emphasis on the incorporation of the classic principles of animation, and in learning the core components of the software that are necessary for effective visual communication. A combination of ART 196A and ART 197A may be taken a maximum of four enrollments. CSU/UC

## **ART 197B**

### **3D Animation Intermediate**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

*Prerequisite: ART 197A with a minimum grade of C.*

Instruction in intermediate-level 3D animation techniques for linear and non-linear storytelling (e.g. film or video games). Emphasis is on the incorporation of the classic principles of animation, and learning the core components of the software that are necessary for effective visual communication. A combination of may be taken a maximum of four enrollments. CSU/UC

## **ART 197C**

### **3D Animation Advanced**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

*Prerequisite: ART 197B with a minimum grade of C.*

Instruction in advanced level 3D animation techniques for linear and non-linear storytelling (e.g. film or video games). Emphasis is on the incorporation of the classic principles of animation, and in learning the core components of the software that are necessary for effective visual communication. A combination of ART 184 and ART 197C and ART 185 and ART 165 and ART 167 may be taken a maximum of four enrollments. CSU/UC

## **ART 199**

### **Independent Study**

*Prerequisite: Divisional approval. To be eligible for independent study a student must be concurrently enrolled in at least one other class at either Santa Ana College or Santiago Canyon College and must show evidence of competence in his academic major and the area in which he proposes to do independent study. (SAC catalog). CSU*

## **ART 230 (C-ID ARTS 205)**

### **Intermediate Drawing**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

*Prerequisite: ART 130 with a minimum grade of C.*

An intermediate course in the study of drawing designed to give students who have completed an introductory drawing course additional opportunity in graphic expression. Further exploration of materials including a wide variety of both drawing and mixed media. Students continue the development of composition and more intermediate concepts. The class emphasizes individual expression. A combination of Art 130, Art 230, and Art 233 may be taken a maximum of four enrollments. CSU/UC

## **ART 231**

### **Intermediate Life Drawing**

Unit(s): 3.0 Class Hours: 5.0 Lecture, 72.0 Lab total.

*Prerequisite: ART 131 with a minimum grade of C.*

Continued experience in drawing from the live model with opportunity for development of self-expression. Further exploration of media and techniques. A combination of ART 131, ART 231, ART 232, and ART 243 may be taken a maximum of four enrollments. CSU/UC

## **ART 232**

### **Advanced Life Drawing**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

*Prerequisite: ART 231 with a minimum grade of C.*

Intensive study of the human figure with further advanced level development of drawing skills, composition, technique, and media utilizing the live model. Projects vary each semester. A combination of ART 131, ART 231, ART 232, and ART 243 may be taken a maximum of four enrollments. CSU/UC

## **ART 233**

### **Advanced Drawing**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

*Prerequisite: ART 230 with a minimum grade of C.*

To further develop individual graphic expression, students will plan a series of drawing problems to be executed during the semester under the instructor's direction. Exploration of new materials and techniques. A combination of Art 130, Art 230, and Art 233 may be taken a maximum of four enrollments. CSU/UC

## **ART 240**

### **Intermediate Watercolor**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

*Prerequisite: ART 140B with a minimum grade of C.*

An intermediate level course providing for continuing development of watercolor painting skills. Further refinement of media, technique and expression of style through more advanced painting projects. Subject matter content includes still life, landscape, figurative studies, abstraction, and individual creative expression. Traditional and non-traditional approaches. A combination of ART 140A, ART 140B, ART 143, and ART 240 may be taken a maximum of four enrollments. CSU/UC

## **ART 241**

### **Intermediate Painting**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

*Prerequisite: ART 141 with a minimum grade of C.*

An intermediate level class designed to promote and advance the creative development of those with basic skills in water- soluble oil and/or acrylic painting. Opportunity for further study of historical and contemporary references and to increase experience with new media, methods, and techniques. Emphasis on artistic expression and individual creative problems. A combination of ART 141, ART 241, and ART 242 may be taken a maximum of four enrollments. CSU/UC

**ART 242****Advanced Painting**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

*Prerequisite: ART 241 with a minimum grade of C.*

An advanced level studio course providing opportunity for further refinement of painting skills with increasing exposure to contemporary styles. Emphasis on research and individual creative problems in painting. Exploration into a personal mode of expression through development of media, technique, and style. Classroom studio use of oils limited to water- soluble oil paint only. A combination of ART 141, ART 241, and ART 242 may be taken a maximum of four enrollments. CSU/UC

**ART 243****Portrait and Life Painting**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

*Prerequisite: ART 131 or ART 141 with a minimum grade of C.*

Painting of the human form with study of portraiture and anatomy. Compositions in representation of the life model through interpretive studies in watercolor, pastels, water soluble oil, and acrylic. Study of traditional and contemporary methods and directions. A combination of ART 131, ART 231, ART 232, and ART 243 may be taken a maximum of four enrollments. CSU/UC

**ART 251****Ceramics-Advanced Throwing and Handbuilding**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

*Prerequisite: ART 152 with a minimum grade of C.*

Study of thrown and handbuilt sculptural forms. Exploration of decoration and glaze techniques and incorporation of non-traditional materials such as metal/wood/plastics/paints. CSU/UC

**ART 252****Ceramics-Advanced Study Process in Ceramics with Non-Traditional Media**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

*Prerequisite: ART 152 or ART 153 with a minimum grade of C.*

An advanced study in the ceramic process as it relates to a non-clay media approach. A sculptural form study with non-traditional materials as surface enhancements. CSU/UC

**ART 253****Electric Kiln Ceramics**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

*Prerequisite: ART 151 with a minimum grade of C.*

Provides student potters working studio production knowledge of the uses of an oxidizing electric kiln. Emphasizes types of electric kilns, spectrum of glaze formulas, and safety procedures of firing. CSU

**ART 282****Jewelry II**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite: ART 182 with a minimum grade of C.*

Continued instruction in the making of jewelry by means of fabrication, including techniques in silver soldering, die forming, etching, tool making, and hinge mechanisms. A combination of ART 182, ART 282, ART 283, ART 284 and ART 285 may be taken a maximum of four enrollments. CSU

**ART 283****Jewelry III**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite: ART 282 with a minimum grade of C.*

Advanced instruction in the making of jewelry by means of complex fabrication. Explores various traditional metal working techniques including mokume, inlay, complex soldering and raising. Gives opportunity for intensive work on projects of individual interest. A combination of ART 182, ART 282, ART 283, ART 284 and ART 285 may be taken a maximum of four enrollments. CSU

**ART 284****Introduction to Stone Setting-Jewelry**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Course is an introduction to basic jewelry hand skills, including sawing, filing, soldering, and some fabrication. Emphasis is on cabochon and tube stone setting. Students supply their own stones and metal. A combination of ART 182, ART 282, ART 283, ART 284 and ART 285 may be taken a maximum of four enrollments. CSU

**ART 285****Introduction to Enameling-Jewelry**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

An introduction to basic jewelry enameling, including some sawing, filing, and metal forming fabrication with emphasis on color and attention to two dimensional design. Emphasis is on enameling on sheet metal and some cloisonne. Students supply their own enamel and metal. A combination of ART 182, ART 282, ART 283, ART 284 and ART 285 may be taken a maximum of four enrollments. CSU

**ART 291****Mural Painting and Design II**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

*Prerequisite: ART 190 with a minimum grade of C.*

An intermediate level mural art class designed to promote and advance the creative development of those with basic skills in mural painting. Opportunity for further study of historical and contemporary references and to increase experience with new media, methods, and techniques. Students will work collaboratively in groups and with the community to create designs. Intermediate students will take on more leadership roles in the group creative dynamic. CSU/UC

**ART 292****Mural Painting and Design III**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

*Prerequisite: ART 291 with a minimum grade of C.*

An advanced level studio course providing opportunity for further refinement of large scale painting skills with increasing exposure to contemporary styles in mural painting. Exploration into an advanced personal mode of expression through development of media, technique, and style. CSU/UC

**ART 296****Professional Art Production**

Unit(s): 1.5 Class Hours: 18.0 Lecture, 45.0 Lab total.

*Prerequisite: ART 196A with a minimum grade of C.*

Designed to provide practice in developing digital 3d or multimedia art projects for actual clients or in a simulated setting. Students choose an art project based on strengths, interests and market need to work on during the class. CSU



## **ART 298**

### **Art Practicum**

Unit(s): 1.0 Class Hours: 5.6 Lab total.

*Prerequisite: Portfolio review and previous or concurrent enrollment in a 200 level art course.*

Directed study at selected locations providing workplace experience such as: gallery assistant, artist's apprentice, docent trainee, graphic design apprentice, etc. Before placement, skills assessed to match abilities with project needs. Experience differs each semester. CSU

## **ASIAN AMERICAN STUDIES (ASIA)**

### **ASIA 101**

#### **Introduction to Asian American Studies**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course is an introduction to the field of Asian Pacific American Studies. An interdisciplinary approach will be employed to study the experiences of various Asian and Pacific Islander groups in the United States utilizing the perspectives of race, nationality, class, gender, and sexuality. The course will cover historical and contemporary issues within Asian Pacific American communities, including immigration, anti-Asian violence, labor, unionization, and stereotypes. CSU/UC

## **ASTRONOMY (ASTR)**

### **ASTR 109**

#### **Introduction to the Solar System**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Surveys history of astronomy, recent research and observations of the planets, moons, and other solar system objects. Exploration of light and gravity to understand formation, properties, and motion of Solar System objects. CSU/UC

### **ASTR 110**

#### **Introduction to Stars and Galaxies**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Surveys the development of astronomy, current research and observations of stars, galaxies, and large-scaled structures in the universe. Exploration of light and gravity to understand the properties and evolution of stars, neutron stars, black holes, galaxies, and the universe's structures and changes. CSU/UC

### **ASTR 110H**

#### **Honors Introduction to Stars and Galaxies**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

Surveys the development of astronomy, current research and observations of stars, galaxies, and large-scaled structures in the universe. Exploration of light and gravity to understand the properties and evolution of stars, neutron stars, black holes, galaxies, and the universe structures and changes. CSU/UC

## **ASTR 140**

### **Astronomy Laboratory**

Unit(s): 1.0 Class Hours: 54.0 Lab total.

*Prerequisite: ASTR 109; ASTR 110 or ASTR 110H with a minimum grade of C.*

Utilizes experimental techniques to explore and comprehend properties and motions of celestial objects. Basic naked-eye, binocular, and small telescope observing techniques will be introduced. Field trips to local planetaria and dark sky locations may be included. CSU/UC

### **ASTR 198**

#### **Topics**

Unit(s): 0.5

Specialized courses on topics in astronomy. CSU/UC

## **AUTOMOTIVE TECHNOLOGY (AUTO)**

### **AUTO 101A**

#### **Automotive Mechanical Operation**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course will focus on function, operation, and design of the mechanical aspects of modern automobiles. Engine repair, manual and automatic transmissions, brakes, and suspension operation and design will be covered. The course is designed for students seeking general knowledge of automotive mechanical systems and employment in a non- technical field. CSU

### **AUTO 101B**

#### **Automotive Electrical Operation**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course will focus on the function and operation of the electrical aspects of modern automobiles. Electrical theory and application, engine sensors, computer systems, and emission control devices will be covered. Also, air conditioning, heating, and electrical accessories will be examined. This course is intended for students seeking general automotive knowledge and employment in a non-technical automotive related field. CSU

### **AUTO 102**

#### **Auto Essentials**

Unit(s): 3.0 Class Hours: 45.0 Lecture, 27.0 Lab total.

Introduction to the primary automotive systems used on modern vehicles. Theory, parts nomenclature, and description of system operation are emphasized. CSU

### **AUTO 106**

#### **Automotive Maintenance**

Unit(s): 4.0 Class Hours: 54.0 Lecture, 72.0 Lab total.

Introduces basic maintenance procedures in the areas of engines, chassis, and electrical systems. This course is recommended for consumers as well as students interested in entering the automotive repair field. Safe and correct hands-on use of tools and equipment by students is emphasized. Students must furnish approved safety glasses. CSU

**AUTO 122****Electronics Fundamentals**

Unit(s): 5.0 Class Hours: 72.0 Lecture, 72.0 Lab total.

Introduction to the basic operating principles of electrical and electronic devices used in modern vehicles. Hands-on digital multimeter testing is highlighted. Safe and correct use of tools and equipment by students will be emphasized. Students must furnish approved safety glasses. (Same as Diesel 122) CSU

**AUTO 124****Electrical Systems**

Unit(s): 5.0 Class Hours: 72.0 Lecture, 72.0 Lab total.

Theory, operation, diagnosis, and maintenance of automotive engine and body electrical systems. Use of wiring diagrams is highlighted. Safe and correct use of tools and equipment in the shop by students is emphasized. Students must furnish approved safety glasses. This course assists the student in preparation for the A6 (Electrical/Electronics) ASE certification exam. CSU

**AUTO 132****Engine Performance**

Unit(s): 5.0 Class Hours: 72.0 Lecture, 72.0 Lab total.

Engine performance procedures including fuel, ignition, oscilloscope, emission control, and computer systems. Hands-on testing and diagnosis is emphasized. Students must furnish approved safety glasses. This course assists the student in preparation for the A8 (Engine Performance) ASE certification exam. CSU

**AUTO 143****Automatic Transmission Service**

Unit(s): 4.0 Class Hours: 36.0 Lecture, 108.0 Lab total.

Theory, operation, diagnosis, and service procedures of automatic transmissions and transaxles. Hydraulic systems are highlighted. Hands-on testing and service procedures are emphasized. Students must furnish approved safety glasses. This course assists the student in preparation for the A2 (Automatic Transmission/Transaxles) ASE certification exam. CSU

**AUTO 144****Manual Drive Train and Axles**

Unit(s): 4.0 Class Hours: 36.0 Lecture, 108.0 Lab total.

Theory, operation, diagnosis, and service of manual transmissions, transaxles, clutches, drive shafts, and differentials. This course also covers minor service of automatic transmissions. Safe and correct hands-on procedures are emphasized. Students must furnish approved safety glasses. This course assists the student in preparation for the A3 (Manual Drive Train) ASE certification exam. CSU

**AUTO 145****Advanced Drive Train Systems**

Unit(s): 5.0 Class Hours: 72.0 Lecture, 72.0 Lab total.

This course covers fully electronic controlled automatic transmission/transaxle diagnosis and service. Emphasis is placed on specialized diagnostic equipment and safe hands-on practice. Diagnosis of electronic sensors is highlighted. This course assists the student in preparation for the A2 (Automatic Transmission/Transaxles) and A3 (Manual Drive Train) ASE certification exams. CSU

**AUTO 153****Brakes**

Unit(s): 4.5 Class Hours: 54.0 Lecture, 90.0 Lab total.

Theory of operation, diagnosis, and service of drum, disc, and anti-lock brake systems used on modern vehicles. Safe and correct hands-on practice is emphasized. Students must furnish approved safety glasses. This course assists the student in preparation for the A5 (Brakes) ASE certification exam. CSU

**AUTO 154****Steering and Suspension Service**

Unit(s): 4.5 Class Hours: 54.0 Lecture, 90.0 Lab total.

Theory, operation, diagnosis, and service of the steering and suspension systems used on modern vehicles. Wheel alignment procedures are highlighted. Hands-on practice is emphasized. Students must furnish approved safety glasses. This course assists the student in preparation for the A4 (Steering and Suspension) ASE certification exam. CSU

**AUTO 161****Automotive Air Conditioning, Heating and Ventilation Systems**

Unit(s): 5.0 Class Hours: 72.0 Lecture, 72.0 Lab total.

The operation and service of modern automotive air conditioning systems. Practical application of air conditioning theory is presented to enable problem solving. Heating, ventilation, and electronic control systems are also included. Safe hands-on practice is emphasized. Students must furnish approved safety glasses. This course assists the student in preparation for the A7 (Air Conditioning and Heating) ASE certification exam. EPA 609 certification is an integral part of this course. CSU

**AUTO 176****Engine Repair**

Unit(s): 4.5 Class Hours: 54.0 Lecture, 90.0 Lab total.

This course deals with teardown, assembly, and repair of modern automotive engines. Accurate engine measurement is highlighted. Hands-on practice of engine repair skills is emphasized. Students must furnish approved safety glasses. This course assists the student in preparation for the A1 (Engine Repair) ASE certification exam. CSU

**AUTO 185****Bureau of Automotive Repair (BAR) Smog Inspector Training I**

Unit(s): 5.0 Class Hours: 81.0 Lecture, 27.0 Lab total.

This is the Bureau of Automotive Repair (B.A.R.) certified Basic Clean Air Car Course. This course fulfills one of the requirements to take the State Smog Inspector License Exam. The course is designed for students seeking to obtain a California State Smog License and will stay current with B.A.R. guidelines as new regulations and/or technologies are introduced. This course is intended for individuals with some automotive experience or education. (Pass/No Pass Only) CSU

**AUTO 186****Bureau of Automotive Repair (BAR) Smog Inspector Training II**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

This is the Bureau of Automotive Repair (B.A.R.) certified Smog Check Inspector Level II course. This course fulfills one of the requirements to take the State Smog Technician Exam. The course is designed for students seeking to obtain a California State Smog License and will stay current with B.A.R. guidelines as new regulations and/or technologies are introduced. This course is intended for individuals with some automotive experience or education. (Pass/No Pass Only) CSU

**AUTO 187****BAR Specified Diagnostic and Repair**

Unit(s): 5.0 Class Hours: 72.0 Lecture, 54.0 Lab total.

Bureau of Automotive Repair recognized diagnostic and repair course. This course fulfills one of the required courses the student needs to take the State Smog Technician Exam. The course is designed for students seeking to obtain a California State Smog License and will stay current with B.A.R. guidelines as new regulations and/or technologies are introduced. This course is intended for individuals with some automotive experience or education. (Pass/No Pass Only) CSU

**AUTO 190****Automotive Manufacturer Specific I**

Unit(s): 2.0 Class Hours: 27.0 Lecture, 27.0 Lab total.

Recommended Preparation: (AUTO 102 or AUTO 106); AUTO 122 with a minimum grade of C.

This course will allow students will gain experience working with specific engine and powertrain related systems from different vehicle manufacturers. The course is intended for students seeking employment at a new car dealership as a service technician. The course will also focus on vehicle manufacturer specific training from different vehicle makes. Students will choose to focus on Subaru, Fiat-Chrysler, or other vehicle manufacturers. CSU

**AUTO 191****Automotive Manufacturer Specific II**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Recommended Preparation: (AUTO 102 or AUTO 106); AUTO 122 with a minimum grade of C.

In this course students will gain experience working with and diagnosing specific drivetrain and electrical systems from different vehicle manufacturers. This course is intended for students seeking employment at a new car dealership as a service technician. The course will also focus on vehicle manufacturer specific training from different vehicle makes. Students will choose to focus on Subaru, Fiat-Chrysler, or other vehicle manufacturers. CSU

**AUTO 200****Automotive Service Advising**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course will cover the career, expectations, and duties of an automotive service advisor. Topics include customer service, the three Cs, completing repair order procedures, writing skills, and effective communication with internal and external customers. CSU

**AUTO 201****Automotive Service Management**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: BUS 100 with a minimum grade of C.

This course will focus on management skills of a service and repair facility, including new car dealerships and independent shops. Employee relations, legal requirements, policies and procedures, customer relations, and working as a manager/supervisor will be emphasized in the course. Working with vendors and suppliers will also be covered. CSU

**AUTO 202****Automotive Independent Shop Ownership**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: BUS 100 with a minimum grade of C. This course will cover the business, logistics, equipment needs, hiring process, and customer service requirements to own and operate an independent automotive service and repair facility. Operating a safe working environment and maintaining a productive facility will be emphasized. CSU

**AUTO 218****Advanced Engine Performance**

Unit(s): 4.0 Class Hours: 36.0 Lecture, 108.0 Lab total.

Recommended Preparation: AUTO 132; AUTO 122 with a minimum grade of C.

This course will focus on advanced level engine performance procedures, including ignition, fuel, oscilloscope, emissions, and computer systems. Hands-on testing and diagnosis will be emphasized. Students must furnish their own safety glasses. The course assists students in preparation of the L1 (Advanced Level Engine Performance) ASE certification exam. CSU

**AUTO 260****Introduction to Electric Vehicles**

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

Recommended Preparation: AUTO 122 with a minimum grade of C.

This course will explore the function, operation, and design of electric vehicles. The course will also focus on safe practices and procedures when working with high voltage systems.

Students will build a purpose-built electric vehicle in the course and study current electric vehicle manufacturers. High voltage systems will be examined, along with battery designs, AC and DC power motors, and electrical inverter/converters. CSU

**AUTO 280****Computer Control and OBD-2 Foundations**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

The operation and diagnosis of automotive computer controlled systems. Sensors, actuators, and networks are discussed. The key segments of OBD-2 are also presented. This course assists the student in preparation for the A8 (Engine Performance) and L1 (Advanced Engine Performance) ASE certification exams. CSU

**AUTO 281****Fuel Injection Systems**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

This course covers the theory, operation, and diagnosis of import and domestic fuel injection systems. Fuel supply, delivery, and control are emphasized. This course assists the student in preparation for the A8 (Engine Performance) and L1 (Advanced Engine Performance) ASE certification exams. CSU

**AUTO 282****Automotive Sensors**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

This course covers the function and testing of computerized engine sensors used on modern vehicles. The use of meters and test equipment will be emphasized. This course assists the student in preparation for the A8 (Engine Performance) and L1 (Advanced Engine Performance) ASE certification exams. CSU

**AUTO 283****Diagnostic Test Equipment**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

This course covers the use of automotive diagnostic equipment such as scan tools and hand held lab scopes. Test procedures and diagnostics will be emphasized. This course assists the student in preparation for the A8 (Engine Performance) and L1 (Advanced Engine Performance) ASE certification exams. CSU

**AUTO 284****OBD-2 Diagnosis and Networks**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

This course will present problem solving for code and non-code concerns on OBD-2 (On Board Diagnostics) vehicles. This course also covers the function and troubleshooting of automotive networks. CAN systems are emphasized. This course assists the student in preparation for the A8 (Engine Performance) and L1 (Advanced Engine Performance) ASE certification exams. CSU

**AUTO 285****Hybrid Vehicles**

Unit(s): 3.0 Class Hours: 45.0 Lecture, 27.0 Lab total.

This course will discuss safety, operation, and basic service of modern hybrid vehicles. Safety and special tools for dealing with high voltage are emphasized. System function and components are highlighted. Electric vehicles are introduced. CSU

**AUTO 287****Alternative Fuels**

Unit(s): 3.0 Class Hours: 45.0 Lecture, 27.0 Lab total.

This course introduces the student to the various types of alternative fuels used in modern vehicles. Safety and operation are highlighted. Compressed Natural Gas (CNG) training is emphasized. LPG, LNG, Bio-diesel, Ethanol, and Hydrogen are also covered. CSU

**AUTO 288****Diesel Engines: Light-Medium Duty Systems**

Unit(s): 3.0 Class Hours: 45.0 Lecture, 27.0 Lab total.

This course will introduce the applications of modern light and medium duty diesel engines. German as well as domestic engine systems will be covered, including common rail fuel injection, turbochargers, and diesel emission systems. CSU

**BANKING (BANK)****BANK 010****Training for Entry Level Bankers**

*Formerly: Teller Training for Financial Institutions*

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Course provides prospective bank employees with a broad overview of financial institutions and basic knowledge of teller techniques including bank transactions and customer service.

**BIOLOGY (BIOL)****BIOL 098****Topics**

Unit(s): 0.5-4.0 Class Hours: 9.0-72.0 Lecture total.

Specialized courses on topics related to the needs of students in biology.

**BIOL 109****Fundamentals of Biology**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Principles of biology stressing the relationship of all organisms from anatomical, physiological, and ecological points of view. Includes cell machinery, genetics, reproduction, embryology, animal behavior, botany, ecology, evolution, and human physiology. Concurrent enrollment in Biology 109L recommended. Designed for non-biology majors. CSU/UC

**BIOL 109H****Honors Fundamentals of Biology**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

Traditional Biology, enriched by extensive instructor-prepared study guides for each subject area of curriculum. Additional enhancement by outside reading suggestions and optional student reports. Class participation and discussion is strongly encouraged, as are questions on current reports and news in the popular media and scientific sources. Information will be expanded by reference to research observations and by appropriate references to classical and current literature. Emphasis is on analysis of pertinent topics using critical reading and interpretation skills. Concurrent enrollment in Biology 109L is recommended. Designed for non-biology majors. CSU/UC

**BIOL 109L****Fundamentals of Biology Laboratory**

Unit(s): 1.0 Class Hours: 54.0 Lab total.

*Prerequisite: BIOL 109 or BIOL 109H with a minimum grade of C or concurrent enrollment.*

Laboratory experiments that illustrate important biological concepts at all levels of organization, from molecules and cells, to organisms, populations, communities, and ecosystems. Content complements Biology 109/109H lecture material. Fieldtrip required. CSU/UC

**BIOL 111****Marine Biology**

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

This course covers basic concepts of marine ecosystems including oceanographic principles, ecology, and a survey of marine habitats and diversity of marine organisms. CSU/UC

**BIOL 115****Concepts in Biology for Educators**

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

An investigation in the basic principles of Biology and Science with content appropriate for future multiple-subject teachers and secondary through high school. The course material is presented within the context of the human experience and includes cell biology, physiology, genetics, evolution, ecology, animal behavior, and the interaction of humans with the environment. The course is taught from an inquiry-based strategy using active learning.

CSU/UC

**BIOL 127****Ecology**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Introduction to the basic principles of ecology. Study of ecosystems, biomes, and the relationships of plants and animals in the natural world. This is a field study course and includes overnight camping. CSU

**BIOL 128****Natural History of the California Coast**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

An ecological study of plant and animal life of the southern and central California coast. This is a field study course and includes overnight camping. CSU

**BIOL 129****Ecology of Southern California**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Identification and study of the plants and animals of the ocean, mountain and desert regions of Southern California with emphasis on the organisms' relationship to their environment. This is a field study course and includes overnight camping. CSU/UC

**BIOL 131****Natural History of the Southwest**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An ecological study of mountain, canyon, and desert ecosystems of the Southwestern United States. Animal and plant identification, geology, and environmental problems will be emphasized. This is a field study course and includes overnight camping. CSU

**BIOL 132****Natural History of Death Valley**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Natural history of Death Valley emphasizing the biology of the plants and animals, their ecology, adaptations and evolutionary history, as well as the history of environmental change and human activities. This is a field study course and includes overnight camping. CSU

**BIOL 133****Desert Biology**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Study of desert organisms, their adaptations to arid conditions, their evolution, identification and ecology, and the impact of human activities on desert organisms, communities, and ecosystems. This is a field study course and includes overnight camping. CSU

**BIOL 139****Health Microbiology**

Unit(s): 4.0 Class Hours: 48.0 Lecture, 64.0 Lab total.

Presents practical and theoretical aspects of medical microbiology to meet the needs of those in allied health professions. Provides basic knowledge of the microbial world by covering diversity, structure, metabolic and genetic characteristics, cultivation and control. Emphasis is placed on human-microbe interactions especially infectious diseases.

Laboratory deals with identification, growth, and control of microorganisms. Field trips may be required. CSU/UC

**BIOL 149****Human Anatomy and Physiology**

Unit(s): 4.0 Class Hours: 54.0 Lecture, 48.0 Lab total.

Structural organization of the human body: gross and microscopic structure of the integumentary, skeletal, muscular, nervous, sensory, endocrine, cardiovascular, lymphatic, respiratory, digestive, excretory, and reproductive systems, from cellular to organ system levels of organization. This course is primarily intended for nursing, allied health, kinesiology, and other health related majors. CSU/UC

**BIOL 169****Natural History of the Sierra Nevadas**

Unit(s): 1.0-3.0 Class Hours: 18.0-54.0 Lecture total.

A field study of the ecology, geology, and history of the Sierra Nevada mountains. Animal and plant studies, environmental problems, and wilderness preservation will be emphasized. This is a field study course and includes overnight camping. CSU

**BIOL 177****Human Genetics**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introductory course in human genetics which explores basic principles, patterns of inheritance, gene structure, function and regulation, current advances in genetics and gene technology, as well as social and ethical issues in contemporary genetics. CSU/UC

**BIOL 190 (C-ID BIOT 101X = BIOL 190 + BIOL 190L)****Introduction to Biotechnology**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course is a general examination of biology as it relates to the field of biotechnology. Topics include the fundamental chemical processes common in prokaryotic and eukaryotic biology, chemistry of bio-molecules (proteins, enzymes, nucleic acids and lipids), cellular and molecular biology, basic immunology, and classical and molecular genetics with an emphasis on gene expression and genetic engineering. CSU/UC

**BIOL 190L (C-ID BIOT 101X = BIOL 190 + BIOL 190L)****Introductory Biotech Lab**

Unit(s): 1.0 Class Hours: 54.0 Lab total.

*Prerequisite: BIOL 190 with a minimum grade of C or concurrent enrollment.*

This laboratory is a general examination of biology as it relates to the field of biotechnology. The laboratory addresses basic skills and techniques common to the biotechnology industry. Topics include the measurement of activity and quantity of proteins, growth and manipulation of bacteria, genetic engineering and antibody methods. This course is intended as a laboratory class for students majoring in applied biology and as a general education laboratory option for all students. CSU/UC

**BIOL 191****Biotech A: Basic Skills**

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

This course prepares students for entry-level work in the biotechnology industry by emphasizing the core concepts needed to work effectively in a bioscience laboratory. Topics include laboratory math, basic chemistry of buffers, healthy and safety, metrology and quality control. This course introduces students to standard biotechnology laboratory skills including laboratory measurement, maintenance of an industry standard notebook, preparation and sterilization of solutions, reagents and media, proper use and maintenance of laboratory equipment, adherence to quality control protocols and lab safety regulations, data collection and evaluation, basic separation methods, aseptic technique and documentation. CSU

**BIOL 192****Biotech B: Proteins**

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

*Prerequisite: BIOL 191 with a minimum grade of C.*

This course is an introduction to protein purification techniques including sample preparation, protein separation and purification, column chromatography, large-scale recovery, and use of assays for recovery analysis. It provides hands-on training with chromatography systems and assays used in industry and research laboratories. Application of current Good Manufacturing Process (cGMP), Good Laboratory Practice (GLP), and Standard Operating Procedures (SOP's) in relation to these techniques will be addressed. This course covers methods utilized for eukaryotic cell culture protein purification. CSU

**BIOL 193 (C-ID BIOT 150X = BIOL 191 + BIOL 193)****Biotech C: Nucleic Acids**

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

*Prerequisite: BIOL 191 with a minimum grade of C.*

This course introduces the fundamental skills in applied biotechnology focusing on the upstream research and development process. 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; biomolecules, cell structure, gene expression, molecular techniques including DNA/RNA extraction and purification, bioinformatics, polymerase chain reaction, electrophoresis, DNA sequencing, recombinant DNA technology, DNA cloning, fluorescence in situ hybridization, and Southern blot analysis, and in vitro transcription. Compliance with industry standards and regulations will be incorporated into course procedures. CSU

**BIOL 194 (C-ID BIOT 210X)****Quality and Regulatory Compliance in Biosciences**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This course will cover quality assurance and regulatory compliance for the bioscience

industries. Topics will span quality control and Federal Drug Administration (FDA) regulations for the biotechnology, biopharmaceutical, biomedical device, and food industries. Theories and application of quality assurance and quality control will be presented and several different quality systems will be discussed such as cGXP (current Good Practices), ISO9000 (International Standards Organization), Six Sigma and Lean. CSU

**BIOL 195****Biotech: QC/QA Microbiology**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

*Prerequisite: BIOL 229 with a minimum grade of C.*

This course will cover the skills necessary to work in a regulated quality control microbiology laboratory. CSU

**BIOL 197****STEM Internship/Work Experience**

Unit(s): 1.0-4.0 Class Hours: 60.0-300.0 Lab total.

*Prerequisite: Successful completion of 10 units from Biotech course series.*

Supervised paid or volunteer experience in student's major including new or expanded responsibilities. 75 hours of paid work or 60 hours of unpaid work equals one unit. Course may be taken 4 times for a maximum of 16 units of occupational cooperative work experience credit. (Pass/No Pass Only) CSU

**BIOL 198****Topics**

Unit(s): 0.5-4.0 Class Hours: 9.0-72.0 Lecture total.

Specialized courses on topics related to the needs of students in biology. CSU

**BIOL 199****Independent Study**

Unit(s): 1.0-3.0 Class Hours: 18.0-54.0 Lecture total.

*Prerequisite: Enrollment in at least one other class at either Santa Ana College or Santiago Canyon College. And Must show evidence of competence in their academic major and in the area in which they propose to conduct independent study.*

Under faculty direction, students can increase their knowledge in specific areas of biology through directed field experience, research, readings and independent study. Students can also develop laboratory skills and competencies. Divisional approval required. CSU

**BIOL 200****Environment of Man**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A biological and physical science introduction to environmental problems such as energy, resources, pollution, land use, population and food, including economic and political factors. A natural science elective. (Same as Environmental Studies 200.) CSU/UC

**BIOL 202****Cell Culture Techniques**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

*Prerequisite: BIOL 191 with a minimum grade of C.*

Students will learn eukaryotic cell culture techniques that include working under aseptic conditions, sterile techniques, media preparation, quantification and passage of cell lines. Laboratory experience prepares students for work in industry. CSU

**BIOL 211 (C-ID BIOL 190)****Cellular and Molecular Biology**

Unit(s): 5.0 Class Hours: 54.0 Lecture, 108.0 Lab total.

*Prerequisite: MATH 084; CHEM 219 or CHEM 219H with a minimum grade of C.*

*An investigation into the molecular and cellular basis of life, including the evolution of cells, cell structure and function, energy and information flow, cellular reproduction, genetics, and the molecular basis of inheritance. Required of majors in biology, medicine, forestry, and agriculture. This course is a prerequisite for Biology 212 and Biology 214. CSU/UC*

**BIOL 212 (C-ID BIOL 130S = BIOL 212 + BIOL 214)**

**Animal Diversity and Ecology**

Unit(s): 5.0 Class Hours: 54.0 Lecture, 108.0 Lab total.

*Prerequisite: BIOL 211 with a minimum grade of C.*

A study of ecological principles and relationships between animal diversity and ecosystems. Habitat, populations, ecological interactions, and environmental influences are stressed while surveying animal diversity and addressing structure, function, behavior, and adaptation of major taxonomic groups. Required of majors in biology, medicine, forestry and agriculture. Field trips required. CSU/UC

**BIOL 214 (C-ID BIOL 130S = BIOL 212 + BIOL 214)**

**Plant Diversity and Evolution**

Unit(s): 5.0 Class Hours: 54.0 Lecture, 108.0 Lab total.

*Prerequisite: BIOL 211 with a minimum grade of C.*

Principles and processes of evolution leading to biodiversity. Survey of the organisms, viruses, prokaryotes, fungi, algae, and plants with emphasis on evolutionary adaptations of the anatomy, physiology, and life cycles of these organisms. Field trips required. CSU/UC

**BIOL 217**

**Pathophysiology**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

*Prerequisite: BIOL 149; BIOL 239 or BIOL 249 with a minimum grade of C.*

Covers dynamic aspects of human disease. Links sciences of anatomy, physiology and biochemistry with their application to clinical practice for health professionals. CSU

**BIOL 229**

**General Microbiology**

Unit(s): 5.0 Class Hours: 54.0 Lecture, 108.0 Lab total.

*Prerequisite: BIOL 109 or BIOL 109H; BIOL 109L or BIOL 190; BIOL 190L or BIOL 139 or BIOL 149 or BIOL 211 or BIOL 239 or BIOL 249 or CHEM 119 or CHEM 209 with a minimum grade of C.*

Introduction to microorganisms, their classification, structure, biochemistry, growth, control, and interactions with other organisms and the environment. Designed for biology, preprofessional, and prenursing (BSN) majors. CSU/UC

**BIOL 239 (C-ID BIOL 110B)**

**General Human Anatomy**

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

Structure of the human body. Systems, organs, and tissues are studied from human skeletons, models, charts, slides and various electronic programs. Laboratory includes the dissection of a cat and periodic demonstrations of a prosected cadaver as available. CSU/UC

**BIOL 249 (C-ID BIOL 120B)**

**Human Physiology**

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

*Prerequisite: BIOL 239 with a minimum grade of C.*

Microscopic, macroscopic, and dynamic view of the human physiological processes. The lecture portion includes a thorough consideration of both "cell and systems" physiology. Laboratory work includes the use of techniques used in basic research, an introduction to the use of standard medical equipment, and the performance of medical laboratory tests. Non-invasive experiments are performed on students enrolled in the class. CSU/UC

**BIOL 259**

**Environmental Biology**

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

Introduction to Environmental Biology. Includes study of ecosystems, population dynamics, classification, diversity of plant and animal species, effects of pollutants at both the cellular and organismal levels, and principles of ecology (Same as Environmental Studies 259). CSU/UC

**BIOL 290**

**Biochemistry and Molecular Biology**

Unit(s): 5.0 Class Hours: 54.0 Lecture, 108.0 Lab total.

*Prerequisite: BIOL 211; CHEM 209 with a minimum grade of C.*

Introduction to biochemistry and molecular biology. Included are discussions of biological macromolecules, energy production, metabolic pathways and regulation, genetic code, genomics, DNA replication, transcription and RNA processing, translation, and gene regulation. Laboratory activities will include use of visible and UV spectroscopy, chromatography, cell fractionation, ultracentrifugation, protein purification, electrophoresis, and recombinant DNA methods. This course is designed for biology majors, health pre-professionals, and biotechnology majors. CSU/UC

**BLACK STUDIES (BLST)**

**BLST 101**

**Introduction to African American Studies**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course is an introduction to the field of African American Studies. An interdisciplinary approach will be employed to study the various experiences of African Americans and their contributions to American society and culture. The course will cover historical and contemporary issues including African origins, the development of African American culture, the struggles of the African American family, African American political life, and the socio economic empowerment of African American people in the United States. CSU/UC

**BUSINESS (BUS)**

**BUS 080**

**Business Mathematics**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course is designed to enable students to learn and apply mathematics skills in business including review of fractions, decimals, percents, banking, discounts, markups, payroll, interest calculation, installment buying, mortgages, depreciation, taxes, insurance, stocks, bonds, and mutual funds.

**BUS 100 (BUS 110)**

**Fundamentals of Business**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to the basic fundamentals of business. A survey of marketing, management, production, accounting, finance, and economics and how they interrelate in the business environment. CSU/UC

**BUS 101 (C-ID BUS 125)****Business Law**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Fundamental legal principles pertaining to business transactions. Introduction to the law as an instrument of social and political control in society. 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. Intended for transfer to Cal State Northridge. All others see Law 105 and Bus 105. Check with counselor for appropriate class. May only receive credit for Bus 101, Bus 105 or Law 105. CSU/UC

**BUS 103****Cooperative Work Experience- Occupational**

Unit(s): 1.0-4.0 Class Hours: 60.0-300.0 Lab total.

This work experience course of supervised employment is designed to assist students to acquire desirable work habits, attitudes and skills in a field related to the students' major so as to enable them to become productive employees. This course also provides students with career awareness for jobs. 75 hours of paid work or 60 hours of un-paid work equals one unit of course credit. Student repetition is allowed per Title 5, Section 55253. CSU

**BUS 104****Cooperative Work Experience-General**

Unit(s): 1.0-4.0 Class Hours: 60.0-300.0 Lab total.

This work experience course of supervised employment is designed to assist students to acquire desirable work habits, attitudes and skills in a field not related to the students' major so as to enable them to become productive employees. This course also provides students with career awareness for jobs. 75 hours of paid work or 60 hours of un- paid work equals one unit of course credit. Student repetition is allowed per Title 5, Section 55253. CSU

**BUS 105 (C-ID BUS 120)****Legal Environment of Business**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Fundamental legal principles pertaining to business transactions. Introduction to the law as an instrument of social and political control in society. 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. Intended for transfer to most Cal State including Cal State Fullerton. Check with counselor for appropriate class. May only receive credit for Bus 101, Bus 105 or Law 105. CSU/UC

**BUS 106****Culture and International Business - Kiss, Bow or Shake Hands**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to different cultures and their effects on international business. Analysis of cross-cultural attitudes towards management, status, rules, relationships, motivating employees, and negotiation. CSU

**BUS 110****Export Pricing, Quotations and Terms of Trade**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Learn how to respond to trade inquiries. Learn international trade terms of sale, international pricing and supply chain management. Learn how to calculate landed costs and export pricing. CSU

**BUS 111****International Business Documentation - Beginning**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Learn how to create and issue international documents used in selling or buying products. Includes the creation and use of actual documents used in international business. CSU

**BUS 113****International Transportation**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Learn how to ship products internationally and develop a transportation strategy. Includes transportation terminology, the role of the freight forwarder, transportation documentation, freight cost calculations, major ports of the world, and distribution issues. CSU

**BUS 114****International Documentation and Supply Chain Management**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

International documents for product inspection, health/agricultural registrations, and hazardous materials shipments. Utilizes actual documents, software, and resources necessary to effectively complete documentation. Introduces the need for supply chain management and inventory control. CSU

**BUS 115****Global Shipping and Logistics**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Learn how to respond to international trade inquiries, understand international trade terms of sale for import and export, and how to calculate landed costs. Learn how to create and issue import and export documents used in selling or buying products globally. Includes the creation and use of actual documents used in global trade. Learn how to ship products internationally and develop a transportation strategy. Learn about transportation terminology, the role of the freight forwarder, transportation documentation, freight cost calculations, major ports of the world, and distribution methods. Create documents for product inspection, health/agricultural registrations, and hazardous materials shipments. Utilize actual documents, software, and resources necessary to effectively complete documentation required for international trade. Get introduced to supply chain management and inventory control. CSU

**BUS 116****Global Marketing: Selling Around the World**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Learn how to adapt marketing techniques to international markets, how to develop marketing strategies, and how to target markets based on the cultural, political and economic environments. Learn how to create forecasts and budgets for international markets. (Same as Marketing 116). CSU

**BUS 117****Global Commerce and Management**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Learn to create business contracts in the global marketplace and how to use the U.N. Convention on Contracts for the International Sale of Goods. Learn about financial mechanisms and laws regulating international distribution. Learn about international limited liability companies, and foreign direct investment. Learn how countries join together to create trade. Includes NAFTA/USMCA, GATT, the EU and other trade agreements around the world. Explore management and law in different legal environments as well as U.S. export regulations. CSU



**BUS 118**

**Importing: Global Sourcing and Markets**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Learn how importing works. Evaluate the potential of an import business. Contact vendors and source products. Determine import classification, tariffs and taxes and calculate landed costs to import into the U.S. Understand import regulations. CSU

**BUS 119**

**Doing Business in Latin America and Asia**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Learn about the advantages of growing your business by doing business in other regions around the world. Learn about the cultural, linguistic, structural and legal differences in order to be successful in these countries. Learn about the specifics of doing business in Latin American and Asian regions and countries including but not limited to Mexico, Vietnam, China, Central America, Brazil, Chile, and Japan. CSU

**BUS 120**

**Principles of Management**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Principles, methods, and procedures essential to the successful management of human and financial resources. Planning, decision making, staffing, directing, motivating, leading, communicating, controlling and the application of managerial skills (Same as Management 120). CSU

**BUS 121**

**Human Relations and Organizational Behavior**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The role of the manager and management's relationship to employees. Includes the application of motivational theories, communications, leadership, and organizational structure (Same as Management 121). CSU

**BUS 125**

**Introduction to International Business**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A survey course previewing international marketing, finance, law, and logistics. Includes how a company decides to go global and how products are made, transported, and sold around the world. CSU

**BUS 127**

**Introduction to E-Commerce**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Electronic commerce from a managerial perspective focusing on the retailing, business-to-business, and service industries. Topics include e-commerce infrastructure, intranets and extranets, electronic payment systems, marketing research, advertising, e-commerce strategies, and privacy issues. (Same as Marketing 127). CSU

**BUS 130**

**Personal Finance**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: MATH N48 or placement into Mathematics 083 according to the Santa Ana College Mathematics Department's placement standards.*

This course is designed to empower individuals with various tools to manage their money and make sound lifelong financial decisions. Topics include financial planning, income and expense management, investment analysis, retirement planning, consumerism, insurance, estate planning, home ownership and credit management. This course uses financial, tax, and mathematical calculations. Students will take a hands-on approach to such learning and skill development with problem-solving assignments and projects that require them to explain information presented in tax forms and financial statements. They will also obtain the knowledge and skills required to convert financial information into portrayals that contribute to an understanding of present and future personal and family financial needs. Students will also be provided with opportunities to analyze and synthesize on documents and reports. They will develop the logical reasoning skills needed by informed and productive citizens. Moreover, instructors will (a) provide student-centered activity-based instruction, (b) emphasize the conceptual understanding and skills of mathematics and quantitative reasoning, and (c) facilitate the development of competence and confidence in problem-solving abilities. CSU/UC

**BUS 140**

**Principles of Finance**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to corporate financial management and the functioning of global financial markets. Includes financial planning and analysis, working capital management, capital budgeting, time value of money, risk analysis, capital markets, and long term financing. CSU

**BUS 141**

**The Globalization of Marketing**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Learn how to adapt marketing techniques to international markets, how to develop marketing strategies, and how to target markets based on the cultural, political and economic environments. Learn how to create forecasts and budgets for international markets. CSU

**BUS 142**

**International Market Research and Planning**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

How to research international markets for opportunities using the Internet, government and private resources as well as in-market surveys. Includes the development of international marketing strategies and the analysis of domestic and international markets for import and export opportunities. CSU

**BUS 143**

**Packaging, Pricing and Promoting Products/Services for Export**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Understand international market requirements. Learn to adapt products and services to meet international market needs. Create competitive price structures. Implement exciting promotion and advertising plans. Learn how to entice international customers to buy U.S. products and services. CSU

**BUS 145****Channels of Distribution in International Markets**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Learn alternate methods for distributing products in international markets. Learn how to use distributors and agents. Learn channels of distribution for different industries and different countries. Adapt distribution strategies to maintain product quality, positioning, and competitive price structure. CSU

**BUS 147****International Commercial Agreements and Distribution Law**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Learn to create business contracts in the global marketplace and how to use the U.N. Convention on Contracts for the International Sale of Goods. Learn about contracts with foreign sales representatives and laws regulating international distribution. Learn about international limited liability companies and foreign direct investment laws. (Same as Paralegal 147.) CSU

**BUS 148****International Intellectual Property Law**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Learn international intellectual property law- patents, copyrights, trademarks, and trade secrets. Learn international treaties relating to intellectual property rights. Learn technology licensing agreements and international franchising. (Same as Paralegal 148). CSU

**BUS 149****The Law of Global Commerce**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

How countries join together to create trade. Includes NAFTA, GATT, the EU and other trade agreements around the world. Explore law in different legal systems as well as U.S. export regulations. (Same as Paralegal 149.) CSU

**BUS 150 (C-ID ITIS 120, C-ID BUS 140)****Introduction to Information Systems and Applications**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduction to computer concepts and management information systems. Application software will be used to solve business problems. CSU/UC

**BUS 160****Introduction to Stock and Bond Investments**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introductory course in investment decision- making. Topics covered are types of securities, securities markets, stocks, bonds, options, mutual funds, value analysis, international investing, portfolio management, and financial planning. CSU

**BUS 163****International Methods of Payment and Letters of Credit**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Analyze international methods of payment to determine risks and benefits. Learn how to initiate and utilize a letter of credit and its role in international transactions. Learn how to check customer credit and assign payment terms. CSU

**BUS 164****Alternative Financing Techniques for International Trade**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Explore the alternative financing techniques of bartering, countertrade, and forfeiting for medium-term financing. Learn how the foreign exchange market operates and the risk and management techniques of foreign exchange. CSU

**BUS 165****International Trade Finance and Insurance**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Borrowing based on specific import/export transactions-documentary bankers' acceptances, clean bankers' acceptance financing, trade acceptance, borrowing against receivables, sale of receivables, and factoring. Learn to assess risks, hedge risks and insure international trade transactions. Discover Eximbank. CSU

**BUS 166****Financing an Import/Export Business**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Learn where and how to obtain financing to operate an international business. Discover domestic and international financing and lending sources, commercial banks and brokers, non-bank lenders, government, and quasi-government lenders. Understand government finance assistance organizations. CSU

**BUS 170****Principles of Small Business Management**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Practical business skills needed to start and operate a small business. Includes information on risk management, site location, legal aspects, financing, budgeting, merchandising, promotion, and management techniques. CSU

**BUS 180****Finding and Evaluating Products for Import**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Evaluate the potential of an import business. Contact vendors and source products. Determine import classification, tariffs and taxes and calculate landed costs to import into the U.S. CSU

**BUS 182****Classifying Imports and Clearing US Customs**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Learn to classify products being imported into the U.S. using the Harmonized Tariff Schedule (HTS). Identify applicable duty rates and quotas for products. Learn how the operations and U.S. Customs programs have changed since 9/11/2001. CSU

**BUS 222 (BUS 115)****Business Writing**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.*

Overview of oral and written communication skills used in business. Emphasizes guidelines for improving writing and speaking skills, common solutions to common communication problems, ethical issues facing business communicators today, instructions on how to identify areas of legal vulnerability, and tested techniques for communicating successfully in today's high-tech, international business environment. CSU

## **BUSINESS APPLICATIONS (BA)**

### **BA 017**

#### **Business Writing Skills**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Comprehensive, up-to-date business usage of grammar including punctuation, capitalization, number style, spelling, vocabulary development, and other effective business writing skills. Designed to improve professional written communication including letters, reports, proposals, and email.

### **BA 018**

#### **Office Technology & Professional Skills**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Develop and improve professional business skills using current standards and technology including job search and advancement, employment readiness, leadership skills, customer service, effective written and verbal communication, and office management. Instruction includes office technology, business ethics, decision-making skills, travel arrangements, effective meetings, time and stress management, and teamwork skills.

### **BA 035**

#### **Computer Fundamentals**

Unit(s): 1.5 Class Hours: 27.0 Lecture total.

Learn current computer technology, understand hardware components, and software applications using current industry standards. Topics also include Internet, virus protection, networking, cloud computing, and WiFi. Helpful tips to make using the computer easier, faster and more efficient. Course is designed for beginner and experienced users needing to update business technology knowledge and skills.

### **BA 051**

#### **Introduction to Spanish Bilingual Interpreting**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introductory course in interpretation/ translation in English/Spanish designed to introduce students to the different career fields that employ bilingual skills such as the business, legal, medical and educational professions. Written translation and oral interpretation skills will be utilized and developed in both English and Spanish. Fluency in Spanish and English is recommended.

### **BA 056**

#### **Business Interpretation and Translation- Spanish/English**

*Formerly: General Foundation for Bilingual Business Interpretation-Spanish/English*

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A course in interpretation and translation designed for employment certification of interpreters for business and government. Fluency in Spanish and English strongly recommended.

### **BA 057**

#### **Medical Interpretation and Translation- Spanish/English**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A course in medical interpretation/translation designed for employment certification of interpreters for governmental and private health services providers. Fluency in Spanish and English strongly recommended.

### **BA 058**

#### **Legal Interpretation and Translation- Spanish/English**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A course in legal interpretation/translation designed for employment certification of interpreters for government and private legal businesses. Fluency in Spanish and English strongly recommended. Same as Law 058. Field trips may be required.

### **BA 110**

#### **Computer Keyboarding Skills**

Unit(s): 0.5 Class Hours: 27.0 Lab total.

This course is the first step in learning proper keyboarding techniques with accuracy using correct hand and finger positioning. Students will follow step-by-step instructions for all alphabet, punctuation, enter/return, and capitalization using shift keys. Typing correctly without errors will provide the skills necessary to develop speed with accuracy. CSU

### **BA 115**

#### **Computer Keyboarding Speed and Accuracy Development**

Unit(s): 0.5 Class Hours: 27.0 Lab total.

After the basic keyboarding skills have been mastered, the most important next step is to take this course to develop and increase speed with accuracy. Students will use drills and timed writing tests to develop speed and accuracy to meet current business employment typing requirements and make the use of business technology faster and easier. Typing skills with a minimum 20 words per minute (WPM) using proper techniques or completion of BA 110 recommended. CSU

### **BA 125**

#### **Microsoft Word**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Learn the most efficient methods of creating, editing, formatting, and printing professional business documents faster and easier. Beginners as well as experienced Word users will benefit from learning proper file setup and shortcuts using current business standards. Students will master basic skills and learn advanced features and techniques to produce a wide variety of documents including resumes, newsletters, and brochures. This course will prepare the student for the Microsoft Office Specialist (MOS) exam to earn an industry recognized certification. CSU

### **BA 126**

#### **Microsoft Outlook**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Learn how business professionals use all the features in Microsoft Outlook for information management to improve communication and increase productivity. Topics include proper email usage, create meeting invites, schedule appointments, manage contacts, organize emails, manage calendars, email security, customize settings, and create backups. This course will prepare the student for the Microsoft Office Specialist (MOS) exam to earn an industry recognized certification. CSU

### **BA 147**

#### **Introduction to Windows**

Unit(s): 1.5 Class Hours: 27.0 Lecture total.

This course is designed for beginning and experienced computer users needing to update business technology skills in using Windows. Customize the Windows environment using the latest features including Start menu tiles, settings, task bar, pin apps, Cortana, Microsoft Edge browser, and OneNote. Learn File Explorer to manage files and folders more efficiently and use OneDrive for Cloud storage. CSU

**BA 153****Social Media Apps for Employment and Business**Unit(s): 1.5 Class Hours: 27.0 Lecture total.

Boost your career opportunities by learning the latest trends in using social media applications. Learn how to use all the features in the leading social media apps to find employment, promote a business, and network with professionals. Tips on how to improve the quality and effectiveness of your social media presence. Learn proactive and professional techniques in handling reviewer comments. Live stream videos on social media including from drones. Hands-on instruction in social media apps including LinkedIn, Facebook, Instagram, Twitter, YouTube, Yelp, Google, Pinterest, and Snapchat. This course is designed for beginner and experienced social media users. CSU

**BA 154****Search Engine Optimization and Web Statistics Apps for Business**Unit(s): 1.5 Class Hours: 27.0 Lecture total.

Learn how search engines work, website structure with Search Engine Optimization (SEO), competitive keyword research, writing content for search friendly websites, effective link building, and Search Engine Marketing (SEM) with Google Ads. Learn how business professionals use web statistics applications, such as Google Analytics, to analyze and track the effectiveness and performance of web pages and content to determine SEO and SEM practices. Learn how to use apps to measure site traffic, ad performance, Return on Investment (ROI), and conversions. Create an account, set up custom campaigns, and work with reports. This course is designed for beginner and experienced users. CSU

**BA 155****WordPress**Unit(s): 2.0 Class Hours: 36.0 Lecture total.

WordPress is one of the most popular Content Management Systems (CMS) used to build professional web sites and blogs for business. Learn proper software and current Search Engine Optimization (SEO) techniques to create and maintain a responsive website and blog. Understand the difference of using WordPress.com and WordPress.org. CSU

**BA 158****Drones for Business**Unit(s): 1.5 Class Hours: 27.0 Lecture total.

An introduction to using drone technology for business applications. Basic hands-on training

to learn how to fly drones safely and legally. Topics include types of drones, how different industries use drones, taking photos and videos, FAA regulations (Part 107 remote pilot license), and flight insurance. Learn about starting a drone business and related careers (real estate, public safety, construction, engineering, media, delivery, insurance). CSU

**BA 160****Microsoft Publisher**Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Learn to use Microsoft Publisher, a desktop publishing application integrating text and

images for professional page layout for business projects including brochures, flyers, newsletters, and multi-page publications. Students will learn proper techniques in creating, editing, formatting, exporting PDF, printing, and preparing a publication for distribution using current business standards. CSU

**BA 163****Adobe Acrobat**Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Learn to use Adobe Acrobat Pro DC to create, edit, sign, secure, and optimize PDF documents for print, web, and email. Topics include create fillable PDF forms, combine and arrange multiple files, convert PDF to Microsoft Office file formats, insert multimedia (graphics, video, audio), add security (restrictions with passwords), accessibility compliance, digital signatures, review process (add comments, proofing marks), page links, bookmarks, Bates Numbering, and Redact tool for redacting text for legal and business documents. CSU

**BA 164****Adobe Photoshop**Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Learn to use Adobe Photoshop for photo image editing to enhance print and web business and marketing projects based on current industry standards and proper techniques. Topics include graphics terminology, color correction, stock images, photo repair and restoration, proper file setup, export, masking, filters, special effects, and editing video. This course will prepare the student for the Adobe Certified Associate (ACA) exam to earn an industry- recognized certification. CSU

**BA 166****Adobe Illustrator**Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Learn to use Adobe Illustrator to digitally create, manipulate, and export vector-based graphics, illustrations, drawings, logos, business cards, and simple page layouts to enhance print and web business and marketing projects based on current industry standards and proper techniques. This course will prepare the student for the Adobe Certified Associate (ACA) exam to earn an industry-recognized certification. CSU

**BA 169****Adobe Dreamweaver**Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Learn to use Adobe Dreamweaver to create, publish, and manage professional web sites for any size screen using current business standards, technology, and proper techniques. The course includes site mapping, wireframes, search engine optimization (SEO), responsive design, HTML5, cascading style sheets (CSS), links, proper setup of web images, cross- browser testing, W3C validation, and publishing. This course will prepare the student for the Adobe Certified Associate (ACA) exam to earn an industry-recognized certification. CSU

**BA 170****Adobe InDesign**Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Learn how to use Adobe InDesign to produce professional page layout projects such as brochures, newsletters, flyers, magazines, and books for print and web digital publications using current business standards and techniques. Topics include typography, paragraph and character styles, importing and linking graphics, integrating Photoshop and Illustrator files, applying color, master pages, frames, proper file setup, fixed-layout EPUB, prepress, and preflight. This course will prepare the student for the Adobe Certified Associate (ACA) exam to earn an industry- recognized certification. CSU

**BA 171****Adobe Premiere Pro**Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Learn to use Adobe Premiere Pro, the industry- leading video editing software to create professional video presentation projects for today's business marketing and sales via web and social media. Step-by-step, project-based lessons using proper software techniques and industry standards to effectively use this business application. This course will prepare the student for the Adobe Certified Associate (ACA) exam to earn an industry recognized certification. CSU

**BA 172****Adobe After Effects**Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Learn how businesses today use After Effects software to create professional motion graphics for corporate presentations, company profiles, and marketing projects for web and social media. Step-by-step, project-based lessons on how to create, manipulate, and optimize motion graphics to grab your audience's attention with a high-quality intro video, animated slide show, or presentations of your business. CSU

**BA 173****Adobe Animate**Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course introduces multimedia design for business using Adobe Animate for web sites, banner ads, presentations, and online tutorials based on current business standards. Topics include animation, importing sound and video, ActionScript, interactivity, testing, and publishing. Knowledge of Photoshop helpful. This course will prepare the student for the Adobe Certified Associate (ACA) exam to earn an industry recognized certification. CSU

**BA 179****Introduction to Microsoft Office**Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course is designed for beginning and experienced computer users needing to build and update business technology skills in using Microsoft Office Word, Excel, and PowerPoint. Learn to use the essential features and proper techniques to create, edit, format, export PDF, and print professional business documents, spreadsheets, and presentations. This course will prepare the student for the Microsoft Office Specialist (MOS) exam to earn an industry recognized certification in Word, Excel, and PowerPoint. CSU

**BA 181****Everyone Can Code with Apple**Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Learn about mobile business applications, what it takes to develop a mobile app for your business, and how to market your business app successfully. This is an introductory course in using an Apple visual-based application software to create mobile applications for Apple products such as iPhone and Apple Watch. Students will use an iPad to explore fundamental concepts using application technology to build mobile apps for a business and inspire new career possibilities in business technology. CSU

**BA 182****Document Sharing and Collaboration using the Cloud and Google Apps**Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Learn how to use cloud computing technology to create, edit, and share documents, photos, forms, and videos online with other users using Google Apps, Google Drive, and Google Docs. Integrate Google Docs with Microsoft Office applications. This class is helpful for business professionals, teachers, and students. Google Classroom makes it easy for learning inside and outside of school. Other cloud computing apps will also be discussed in class such as Microsoft OneDrive and Dropbox. CSU

**BA 188****Microsoft Excel**Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This course is designed for beginning and experienced computer users needing to build and update business technology skills to produce professional Excel worksheets. Learn proper techniques using current business standards to create, edit, format, export PDF, and print worksheets. Topics include insert images, graphics, charts, functions, and formulas. This course will prepare the student for the Microsoft Office Specialist (MOS) exam to earn an industry recognized certification. CSU

**BA 189****Advanced Microsoft Excel**Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This course builds on the skills and concepts learned in the BA 188 Microsoft Excel course. Students will learn advanced functions and formulas, data analysis, PivotTables, PivotCharts, protecting and sharing workbooks, automating repetitive tasks, and other advanced Excel skills required for managing and presenting data for business. This course will prepare the student for the Microsoft Office Specialist (MOS) Excel and Excel Expert exams to earn industry recognized certifications. CSU

**BA 190****Microsoft PowerPoint**Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Learn the latest features and techniques in creating captivating business slide presentations. Beginning and experienced PowerPoint users will benefit from learning proper file setup and professional presentation tips using current business standards. Topics include slide animation, transitions, and inserting tables, charts, images, videos, and audio. This course will prepare the student for the Microsoft Office Specialist (MOS) exam to earn an industry recognized certification. CSU

**CHEMISTRY (CHEM)****CHEM 109****Chemistry in the Community**Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

The non-science major will study practical applications of chemistry and the chemical principles behind them including: the scientific method, atomic structure, molecular models, and chemical reactions. Environmental and community issues will be the focus of student centered laboratories, discussions and field trips. Group work and computer activities will be used in this cooperative learning environment. CSU/UC

**CHEM 115****Concepts in Physical Sciences for Educators**

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

An investigation of basic principles of physics and chemistry including matter, physical and chemical properties, energy, motion, light, atomic structure, bonding, solutions and chemical reactions. The interdependence of chemistry and physics will be emphasized. Designed for non-science majors, concepts are introduced in lab through inquiry and further developed during discussion. Completion of Math N48 is recommended (Same as Physical Science 115). CSU/UC

**CHEM 209 (C-ID CHEM 101)****Introductory Chemistry**

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

*Prerequisite: MATH 080 or MATH 081 or MATH 083 or MATH 084 with a minimum grade of C.*

Basic concepts of matter: atomic structure, formulas, equation writing, nomenclature, gases and kinetic theory. Emphasizes properties of solutions, and the mole concept in quantitative chemistry. Prepares students for biology and Chemistry 219. CSU/UC

**CHEM 210****General, Organic and Biochemistry**

Unit(s): 5.0 Class Hours: 72.0 Lecture, 54.0 Lab total.

*Prerequisite: CHEM 209 with a minimum grade of C or passing grade on current chemistry placement exam and MATH 080 or MATH 081 or MATH 083 or MATH 084 with a minimum grade of C.*

An introduction to the fundamental concepts of general, organic and biochemistry for majors in nursing and other allied health majors. Includes atomic structure, nuclear chemistry, bonding, solutions, acids and bases, organic nomenclature, hydrocarbons, alcohol, aldehydes, ketones, carboxylic acids, carbohydrates, proteins, lipids, nucleic acids and metabolism. CSU/UC

**CHEM 219 (C-ID CHEM 110, C-ID CHEM 120S = CHEM 219 or 219H + CHEM 229)****General Chemistry**

Unit(s): 5.0 Class Hours: 54.0 Lecture, 108.0 Lab total.

*Prerequisite: MATH 084; CHEM 209 or A passing score on current chemistry placement test.*

Fundamental principles and concepts of chemistry including, but not limited to, atomic structure, quantum theory, periodic properties, stoichiometry, oxidation-reduction, molecular structure and bonding, gas laws, states of matter, solutions, chemical kinetics and chemical equilibrium. CSU/UC

**CHEM 219H (C-ID CHEM 110; C-ID CHEM 120S = CHEM 219 or CHEM 219H + CHEM 229)****Honors General Chemistry**

Unit(s): 5.0 Class Hours: 54.0 Lecture, 108.0 Lab total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students) AND MATH 080 or MATH 081 or MATH 084 with a minimum grade of C AND CHEM 209 with a minimum grade of C or a passing score on current chemistry placement test. Transcripts required to verify prerequisite.*

Enriched and intensive study, including seminar approach, of fundamental principles and concepts of chemistry including, but not limited to, atomic structure, quantum theory, periodic properties, stoichiometry, oxidation-reduction, molecular structure and bonding, gas laws, states of matter, solutions, chemical kinetics and chemical equilibrium. CSU/UC

**CHEM 229 (C-ID CHEM 120S = CHEM 219 or 219H + CHEM 229)****General Chemistry and Qualitative Analysis**

Unit(s): 5.0 Class Hours: 54.0 Lecture, 108.0 Lab total.

*Prerequisite: CHEM 219 with a minimum grade of C.*

Continuation of Chemistry 219, including but not limited to ionic equilibrium, acid and base equilibrium, thermodynamics, electrochemistry, nuclear chemistry, organic chemistry and descriptive chemistry. CSU/UC

**CHEM 249 (C-ID CHEM 150, C-ID CHEM 160S= CHEM 249+ CHEM 259)****Organic Chemistry I**

Unit(s): 5.0 Class Hours: 54.0 Lecture, 108.0 Lab total.

*Prerequisite: CHEM 229 with a minimum grade of C.*

This course is the first semester of a year of organic chemistry. This course will cover: structure and bonding, nomenclature, descriptive chemistry, reaction mechanisms, synthetic methods and IR spectroscopy for different functional groups including alkanes, alkenes, alkynes, alkyl halides, organometallics, alcohols, and ethers. Laboratory will include: separations/ purifications identification, and simple syntheses. CSU/UC

**CHEM 259 (C-ID CHEM 160S = CHEM 249 + CHEM 259)****Organic Chemistry II**

Unit(s): 5.0 Class Hours: 54.0 Lecture, 108.0 Lab total.

*Prerequisite: CHEM 249 with a minimum grade of C.*

This course is the second semester of a year of organic chemistry (continuation of Chemistry 249). It includes units on structure elucidation, aromatic compounds, carbonyl compounds, carboxylic acids and their derivatives, amines, and classes of biologically important compounds. More complex synthetic routes are explored. Laboratory work includes multi-step syntheses and unknown identification. Reaction mechanisms and use of spectroscopic techniques continue to be emphasized. CSU/UC

**CHICANO STUDIES (CHST)****CHST 101****Introduction to Chicana/o Studies**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course is an introduction to the field of Chicana/o/@/x/e Studies. It is designed to acquaint students with the most significant social, political, economic, and historical aspects of the Chicana/o/@/x/e experience in the United States. As such, the course is interdisciplinary in nature and critically analyzes the societal context in which Chicanas/os/@s/xs/es have sought to maintain their culture. This course is designed to present a foundation in Chicana/o/@/x/e Studies. CSU/UC

**CHILD DEVELOPMENT (CDEV)****CDEV 070****Early Childhood Education: Introductory Principles and Practices (DS3)**

Unit(s): 3.0 Class Hours: 48.0 Lecture total.

Bilingual (Spanish/English) course designed to introduce Spanish speaking students who are considering a career as teachers or aides to the scope of early childhood education. This class meets state licensing requirements for aides and limited-English caregivers in Early Childhood Education programs. Suggested Preparation: Beginning ESL 2.

**CDEV 107 (C-ID CDEV 100)**

**Child Growth and Development (DS1)**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course examines the major physical, cognitive, social and emotional developmental milestones for children, from conception through adolescence. Emphasis on interactions between maturational processes and environmental factors. Students will observe children, evaluate individual differences, and analyze characteristics of development at various stages according to developmental theories. (No credit if student has taken Psychology 157.) CSU/UC

**CDEV 108 (C-ID ECE 200)**

**Observation and Assessment for Early Learning and Development (DS3)**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: CDEV 107 with a minimum grade of C. Negative TB Test (must be completed before observations take place during the semester). By the 3rd week of the semester, verification of the state-mandated Tdap vaccination, MMR immunization, and negative TB test will be required.*

This course focuses on the appropriate use of assessment and observation strategies to document development, growth, play, and learning to join with families and professionals in promoting children's success. Recording strategies, rating systems, portfolios, and multiple assessment tools are explored. CSU

**CDEV 110 (C-ID CDEV 110)**

**Child, Family, and Community (DS2)**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The processes of socialization focusing on interrelationship of family, school, and community. Examines the influence of multiple societal context. Explores the role of collaboration between family, community, and schools in supporting children's development. CSU/UC

**CDEV 111A (C-ID ECE 120)**

**Principles and Practices of Teaching Young Children**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: CDEV 108 with a minimum grade of C. Negative TB Test (must be completed before observations take place during the semester). By the 3rd week of the semester, verification of the state-mandated Tdap vaccination, MMR immunization, and negative TB test will be required.*

This course examines the underlying historical and theoretical principles, and the developmentally appropriate practices of early childhood programs and environments. Emphasis will be on the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative, and intellectual development for all children. The evolution of professional practices promoting advocacy, ethics, and professional identity will be explored. Students will be required to complete a minimum of 30 hours in an early childhood lab school setting. CSU

**CDEV 111B (C-ID ECE 130)**

**Introduction to Curriculum for Young Children**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: CDEV 108 with a minimum grade of C; And or concurrent enrollment in CDEV 111A. By the 3rd week of the semester, verification of the state-mandated Tdap vaccination, MMR immunization, and negative TB test will be required.*

This course presents an overview of knowledge and skills needed to provide developmentally appropriate curriculum for young children. Students will examine the teacher's role in supporting development, fostering the joy of learning and creativity through the essential role of play. Content areas include language/ literacy, social/emotional/ sensory learning, art, music, math, science, health/safety, and motor development. Students will be required to complete a minimum of 30 hours in an early childhood lab school setting. CSU

**CDEV 112 (C-ID ECE 220)**

**Health, Safety, and Nutrition for Children**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: By the 3rd week of the semester, verification of the state-mandated Tdap vaccination, MMR immunization, and negative TB test will be required.*

Recommended Preparation: 6 units of child development coursework.

This course examines the regulations, policies, procedures and best practices for early childhood curriculum related to health, safety, food, and nutrition while supporting child development through everyday planning and school programming. The importance of collaboration between families and health and school professionals to ensure physical and mental health of all children, families, and professionals will be explored. Students will have to show proof of negative TB test results by the 4th week of the semester. Observations to local child development centers will be included. CSU

**CDEV 114**

**Careers in Teaching**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Introduction to the teaching profession, culturally diverse student populations, career ladders and options, academic preparation, experience, and credentials required for employment, utilizing career assessments, principles of goal setting, and exposure to teaching environments and teaching professionals. Students will formulate a career objective and develop an educational plan (Same as Counseling 114). CSU

**CDEV 116A**

**Infant/Toddler Growth and Development (DS4)**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: CDEV 107; CDEV 108 with a minimum grade of C. By the 3rd week of the semester, verification of the state-mandated Tdap vaccination, MMR immunization, and negative TB test will be required.*

A study of infants and toddlers from conception to age three including physical, cognitive, language, social, and emotional growth and development. Applies theoretical frameworks to interpret behavior and interactions between heredity and environment. Emphasizes the role of family and relationships in development. CSU/UC

**CDEV 116B****Care and Education for Infants and Toddlers (DS3)**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: CDEV 107; CDEV 108; CDEV 116A with a minimum grade of C; Or concurrent enrollment in CDEV 116A. By the 3rd week of the semester, verification of the state-mandated Tdap vaccination, MMR immunization, and negative TB test will be required.*

Applies current theory and research to the care and education of infants and toddlers in group settings. Examines essential policies, principles and practices that lead to quality care and developmentally appropriate curriculum for children birth to 36 months. CSU

**CDEV 120A****Development of the School-Age Child (DS5)**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An examination of the physical, cognitive, personality, and social development of children between the ages of five and twelve years. Attention will be paid to the scientific study of middle childhood, developmental trends, and issues of diversity. Not offered every semester. (Same as EDU 120A) CSU/UC

**CDEV 120B****School-Age Child Care and Recreation Activities (DS5)**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course will focus on school age creative activities, including planning and implementing an appropriate before/after school curriculum. Attention will be paid to integrating academics, recreation, and creative activities suitable for school-age child care programs. (Same as EDUC 120B) CSU

**CDEV 200****Introduction to Technology in Early Childhood Education**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

*Prerequisite: By the 3rd week of the semester, verification of the state-mandated Tdap vaccination, MMR immunization, and negative TB test will be required.*

This course provides students knowledge about and experience with technological tools used in early childhood settings. Students will have the opportunity to evaluate the impact of technology as it relates to growth and development of children and developmentally appropriate practices. Emphasis will be on basic knowledge and practice in a wide variety of current and emerging technologies and how to integrate them in the learning environment. CSU

**CDEV 205****Introduction to Children with Special Needs**

Unit(s): 3.0 Class Hours: 53.0 Lecture total.

Introduces the variations in development of children and adolescents with special needs, and the resulting impact on families. Includes an overview of historical and societal influences, laws relating to individuals with special needs, and the identification and referral process. (same as EDU 203) CSU

**CDEV 206****Curriculum and Intervention Strategies**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: CDEV 205 with a minimum grade of C.*

This course focuses on curriculum and intervention strategies for supporting young children's individual needs in partnership with their families. Focuses on the use of observation and assessment in meeting the individualized needs of children in inclusive and natural environments. Includes the role of the teacher as an intentional teacher and professional working with families, collaboration with interdisciplinary teams, and cultural competence. CSU

**CDEV 207****Supporting and Empowering Families of Children with Special Needs**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: CDEV 205 with a minimum grade of C.*

This course will provide teachers, intervention assistants, administrators, and parents the tools necessary to support and empower families of children with disabilities and other special needs in early childhood and school age programs. Techniques, strategies, and resources will be provided to support children in a natural and/or inclusive educational setting and to help guide parents to be advocates of their children. CSU

**CDEV 210****Creative Music Experiences for Young Children**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Explores musical expression through songs and ballads, the elements of music, and diverse types of instruments as used in the early childhood curriculum. Includes the study of musical growth and development in young children and the use of music as a classroom management tool. CSU

**CDEV 214****Creative Art Experiences for Children**

Unit(s): 1.5 Class Hours: 18.0 Lecture, 27.0 Lab total.

Emphasizes the child's (ages 2 through 8 years) ability to represent and expressively use art media. Includes theoretical as well as practical application and the role of adult in fostering creativity. CSU

**CDEV 215****Administration I: Programs in Early Childhood Education (DS6)**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: Twelve (12) units in early childhood education.

This course is an introduction to the administration of early childhood programs. Students will learn about program types, budget, management, regulations, laws, development and implementation of policies and procedures. Additionally, they will examine administrative tools, philosophies, and techniques needed to organize, open, and operate an early care and education program. CSU



**CDEV 216****Administration II: Personnel and Leadership in Early Childhood Education (DS6)**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: Twelve (12) units in early childhood education.

This course provides effective strategies for personnel management and leadership in early care and education settings. Students will learn about legal and ethical responsibilities, supervision techniques, professional development, and reflective practices for a diverse and inclusive early care and education program. CSU

**CDEV 220****The Child as a Victim**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Exploration of battered, molested, and neglected children from five vantage points:

child, law, parents, social services and educator (Same as Counseling 220). CSU

**CDEV 221 (C-ID ECE 230)****Living and Teaching in a Diverse Society**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Examination of the development of social identities in diverse societies, and implications of oppression and privilege, as they apply to young children, families, programs, classrooms, and teaching. Classroom strategies will be explored emphasizing culturally and linguistically appropriate anti-bias approaches, self-examination, and reflection on issues related to social identity, stereotypes and bias, social and educational access, media, and schooling. CSU/UC

**CDEV 229****Brain Development and Learning**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This class explores the development of the brain for children from birth through adolescence, and how behavior and learning are affected. Brain-based learning strategies will be used to teach new ways of approaching learning including how to understand diverse learning styles. This course is designed for educators, parents, and students who are interested in knowing more about how the brain operates and how environment affects the brain. CSU

**CDEV 230****Child Guidance and Classroom Management**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This course will explore expectations about young children's behavior and the importance of teacher interaction skills in addressing and dealing with behavior issues. Behavior expectations will be defined, skills for dealing with various behaviors will be developed and a file of community resources in regards to behavioral issues will be created. It is advised that participants take this course in conjunction with working in a classroom setting. CSU

**CDEV 231****Developing Language and Literacy in Young Children**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: By the 3rd week of the semester, verification of the state-mandated Tdap vaccination, MMR immunization, and negative TB test will be required.*

Designed to introduce students to basic concepts of first and second language acquisition and literacy in young children including classroom applications. CSU

**CDEV 232****Math and Science Methods for Early Learning Environments**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Introduces early learning teachers to basic math and science principles and the standards established by the National Council of Teachers of Mathematics, National Science Content Standards for early learning environments and Next Generation Science Standards. This course includes theoretical and practical applications for problem-solving and critical thinking that are common to math and science. Students will develop a personal file of appropriate math/science activities for early learning. CSU

**CDEV 250****Adult Supervising and Mentoring in Early Care and Education**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

*Prerequisite: CDEV 111B or CDEV 116B with a minimum grade of C.*

For the experienced teacher, a study of the methods and principles of supervising adults in early childhood classrooms. Emphasis is on the role of experienced classroom teachers who function as supervisors/mentors to new teachers and staff while simultaneously addressing program quality and the needs of children, parents, and other staff. CSU

**CDEV 297****Analyzing and Applying Teacher Strategies in the Classroom**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: CDEV 111B or CDEV 116B or CDEV 120B with a minimum grade of C, and By the 3rd week of the semester, verification of the state-mandated Tdap vaccination, MMR immunization, and negative TB test will be required.*

This course will provide students with essential skills to utilize a variety of current statewide assessment tools that address the quality of early childhood programs and the developmental levels of young children. Students will identify strategies to help teachers effectively use curriculum that is intentional, child-focused, and content-driven. Students will also learn to be responsive of cultural diversity, English-language learners, and the unique needs of families. CSU

**CDEV 298A (C-ID ECE 210)****Practicum in Early Childhood Programs**

Unit(s): 3.5 Class Hours: 36.0 Lecture, 81.0 Lab total.

*Prerequisite: CDEV 107; CDEV 108; CDEV 110; CDEV 111A; CDEV 111B; CDEV 112; CDEV 221; CDEV 297 with a minimum grade of C, and By the 3rd week of the semester, verification of the state-mandated Tdap vaccination, MMR immunization, and negative TB test will be required.*

Under guided supervision in a RSCCD Child Development Center or approved mentor site, students will demonstrate competency in connecting theory to practice, and enhance professional-behaviors. Students will plan and implement child-centered, play-oriented approaches to teaching, learning, and assessment. Knowledge of curriculum content areas will be emphasized as students design, implement, and evaluate positive experiences for young children. CSU

**CDEV 298B****Practicum in Infant/Toddler Programs**

Unit(s): 3.5 Class Hours: 36.0 Lecture, 81.0 Lab total.

*Prerequisite: CDEV 107; CDEV 110; CDEV 108; CDEV 112; CDEV 116A; CDEV 116B; CDEV 221; CDEV 297 with a minimum grade of C, and By the 3rd week of the semester, verification of the state-mandated Tdap vaccination, MMR immunization, and negative TB test will be required. and.*

Under guided supervision in a RSCCD Child Development Center or approved mentor site, students will demonstrate competency in connecting theory to practice and enhance professional behaviors. Students will plan and implement infant/toddler-centered, play-oriented approaches to teaching, learning, and assessment. Knowledge of curriculum content areas will be emphasized as students design, implement, and evaluate positive experiences for infants and toddlers. CSU

**CDEV 299****Cooperative Work Experience Education**

Unit(s): 1.0-4.0 Class Hours: 60.0-300.0 Lab total.

This work experience course of supervised employment is designed to assist students to acquire career awareness and work habits in early childhood, K-12, and after-school programs. 75 hours of paid work or 60 hours of unpaid work equals one unit of course credit.

Student repetition is allowed per Title 5, Section 55253. CSU

**CHINESE (CHNS)****CHNS 101****Elementary Chinese I**

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

Practice and integration of pronunciation, grammar, vocabulary, and common idioms through listening, speaking, reading, and writing so that students can begin to express thoughts orally and in writing. The class will also introduce students to culture and social linguistic knowledge appropriate to Chinese-speaking societies. CSU/UC

**CHNS 102****Elementary Chinese II**

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

*Prerequisite: CHNS 101 with a minimum grade of C.*

Continuation of Chinese I. Further training in language skills providing avenues for the expression of ideas in both oral and written forms. Enhanced study of culture and socio-linguistic knowledge appropriate to Chinese-speaking societies. CSU/UC

**COMMUNICATION STUDIES (CMST)****CMST N49****Introduction to Academic Speaking Skills**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Beginning course for non-native students with previous instruction in basic English as a second language. Includes listening discrimination, pronunciation, speaking and listening skill building. Skills are intensively practiced and reviewed. Not applicable to associate degree. (Same as EMLS N49).

**CMST N52A****Beginning American English Pronunciation Skills**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Instruction in pronunciation of American English sounds, identifying commonly mispronounced sounds, and common sound spelling patterns. Not applicable to associate degree. (Same as EMLS N52A).

**CMST N52B****Intermediate American English Pronunciation Skills**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: CMST N52A with a minimum grade of C. More extensive instruction in American English sounds. Emphasis on more difficult sounds, sound blends, word endings, syllable and word stress. Not applicable to associate degree. (Same as EMLS N52B.)

**CMST 097****American English Conversational Skills**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Intensive, advanced conversational practice of American English. The course emphasizes oral competency in key American social, academic and business encounters and communication techniques. Preparation for Communication Studies 101, 101H, or 102. Recommended for English learners.

**CMST 101 (C-ID COMM 130)****Introduction to Interpersonal Communication**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: ENGL 101 or ENGL 101H with a minimum grade of C.

Introduction to communication theory, rhetoric, listening, perception, language usage, nonverbal communication, and conflict management. Students participate in oral and written exercises and simulations; these activities are designed to enhance communicative awareness and skills in interpersonal contexts. It is designed to assist students in improving their own interpersonal and oral communication skills. CSU/UC

**CMST 101H (C-ID COMM 130)****Honors Introduction to Interpersonal Communication**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

Recommended Preparation: ENGL 101 or ENGL 101H with a minimum grade of C.

Introduction to communication theory, rhetoric, listening, perception, language usage, non-verbal communication and conflict management. An enriched approach designed for honors students. Seminar mode stresses the development of analytical thinking, writing, and speaking skills. CSU/UC

**CMST 102 (C-ID COMM 110)****Public Speaking**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: CMST 097 with a minimum grade of C.

Teaches critical thinking skills in relation to public speaking. Emphasis on the process, principles, and major facets of critical thinking with practice through oral presentations. CSU/UC

## **CMST 102H**

### **Honors Public Speaking**

Unit(s): 3.0 Class Hours: 54.0 Lecture total

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

This course is an enriched approach to public speaking, designed for honors students that emphasizes the process, principles, and major facets of critical thinking with practice through oral presentations. CSU

## **CMST 103 (C-ID COMM 150)**

### **Introduction to Intercultural Communication**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: CMST 097 with a minimum grade of C.

A general view of the sociological, psychological, and communication patterns of various cultural groups. Special emphasis on the methods, skills, and techniques necessary for effective intercultural, crosscultural, and interracial communication. Stresses the development of analytical thinking, speaking, and writing skills. CSU/UC

## **CMST 103H (C-ID COMM 150)**

### **Honors Introduction to Intercultural Communication**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

Enriched for honors students. In-depth, seminar format examination of sociological, psychological, and communication patterns of various cultural groups. Methods, skills, and techniques for effective intercultural and interracial communication. Stresses analytical thinking, speaking, and writing skills. CSU/UC

## **CMST 107**

### **Communication for the Health Care Professional**

Unit(s): 1.5 Class Hours: 27.0 Lecture total.

Introduction to communication skills vital to health care settings-listening, presentation skills, cultural awareness, expressions and terminology used in health care settings. Designed for students whose first language is not English. CSU

## **CMST 140 (C-ID COMM 120)**

### **Argumentation and Debate**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: Completion of or concurrent enrollment in English 101 recommended. Communication Studies 097 recommended for non-native speakers.

Principles of debate techniques with emphasis on methods of logical analysis and reflective thinking. Practical application through adaptation of material to forms of debate on current issues. CSU/UC

## **CMST 145 (C-ID COMM 140)**

### **Group Dynamics**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: CMST 097 with a minimum grade of C for non-native speakers.

Principles and methods of communication as applied in the small group setting. Emphasis on communication skills, processes, and operations in the small group. Includes understanding group dynamics and cooperative problem solving. CSU/UC

## **CMST 151**

### **Voice and Diction for Effective Communication**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: CMST 097 with a minimum grade of C for non-native speakers.

Basic speech and voice production. Anatomy and physiology related to respiration (breathing/loudness), phonation (sound/pitch) and articulation (diction/clarity). Practice in improving vocal skills for effective communication. Designed for individuals who have special demands on vocal production in their vocation. CSU

## **CMST 152 (C-ID COMM 170)**

### **Oral Interpretation**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: CMST 097 with a minimum grade of C for non-native speakers.

Oral presentation of prose and poetry; practice in speaking, interpretation, and analysis of literature, with training in the principles of effective delivery. Not offered every semester. CSU/UC

## **CMST 158**

### **Readers Theatre**

Unit(s): 3.0 Class Hours: 54.0 Lecture total

Recommended Preparation: CMST 097 with a minimum grade of C for non-native speakers.

Oral presentation of prose and poetry; practice in speaking, reading, and analysis of literature, with training in the principles of effective ensemble delivery. CSU/UC

## **CMST 170**

### **Introduction to Phonetics**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Study of the articulatory foundations of the description and classification of speech sounds. Introduces the International Phonetic Alphabet (IPA), physiological properties of the speech-producing mechanism, and methods of transcription. Emphasis will be on American English along with comparison to the sound systems of other languages. Communication Studies N53 recommended for non-native speakers. CSU

## **CMST 199**

### **Independent Study**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

*Prerequisite: Divisional approval. To be eligible for independent study a student must be concurrently enrolled in at least one other class at either Santa Ana College or Santiago Canyon College and must show evidence of competence in his academic major and the area in which he proposes to do independent study. (SAC catalog).*

Directed field experience, research, or development of skills & competencies. CSU

## **CMST 206**

### **Gender Communication**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: CMST 101; CMST 103 with a minimum grade of C.

Practical application, techniques and in-depth analysis of male and female communication regarding language usage, biological and social influences, mass media, marriage, organizations, same sex/cross sex friendships, and education. CSU/UC

**CMST 206H****Honors Gender Communication**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students) AND CMST 101 or CMST 101H or CMST 102 or CMST 103 or CMST 103H or CMST 104 or CMST 140 or CMST 145 or CMST 151 with a minimum grade of C.*

An enriched approach in practical application, techniques, and in-depth analysis of male and female communication regarding language usage, biological and social influences, mass media, marriage, organizations, same sex/ cross sex friendships, and education. Students will be required to do individual/group professor-guided research. CSU/UC

**CMST 307****Health Communication**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: Limitation on Enrollment: Student must be admitted to the Occupational Studies program. CMST 101 or CMST 101H or CMST 102 or CMST 103 or CMST 103H or CMST 145 with a minimum grade of C.*

Course is designed to advance knowledge of health communication theory, research and practice while providing solid foundation for understanding importance, value and impact of health communication upon patients, families, caregivers and healthcare team-members.

**COMMUNICATIONS & MEDIA STUDIES (CMSD)****CMSD 102****Multimedia Storytelling**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Explores alternative story forms by combining text, still photographs, video clips, audio, graphics and interactivity to tell stories in the most compelling and informative way. Focuses on using a variety of media to tell different parts of a story for presentation in digital and online platforms. CSU

**CMSD 103 (C-ID JOUR 170)****Introduction to Visual Communications**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This multimedia course explores the social, cultural and historical implications of visual communications from Gutenberg's printing press to present day digital media. Using works of philosophical, historical and cultural importance students will analyze and debate the changes in the way visual communications affect society, and shape cultural values. CSU/ UC

**CMSD 105 (C-ID JOUR 100)****Mass Media and Society**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Exploration of mass communication and the interrelationships of media with society including history, structure and trends in a digital age. Examines major media forms, theories and effects in our information-conscious culture. CSU/UC

**CMSD 105H (C-ID JOUR 100)****Honors Mass Media and Society**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

Enriched honors course of intensive exploration of historical impact and current influence of mass media (newspapers, TV, Internet, etc.). Uses critical thinking skills in seminar-setting to assess media's role in society. CSU/UC

**CMSD 110****Introduction to Creative Nonfiction**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: ENGL 101 or ENGL 101H or CMSD 121 with a minimum grade of C.*

Exploration of creative nonfiction writing concepts, and genres with focus on critically reading and analyzing respected works of literature ranging from biography and review to profiles and personal essays. CSU/UC

**CMSD 111****Media, Race and Gender**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This multimedia course is an overview of the social and cultural implications of mass media on race and gender from the 1920s to the present. Using works of philosophical and cultural importance students will analyze and debate the changes in the faces of media with particular focus on social class, gender and ethnicity. CSU/UC

**CMSD 121 (C-ID JOUR 110)****Introduction to Reporting and Newswriting**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to evaluating, gathering, and writing news across multiple platforms under newsroom conditions. Includes role of the journalist in a multi-media environment and the legal and ethical issues related to reporting. Writing experiences include: web-based and multi-media reporting, interviewing techniques, research methods, application of media law, writing under deadline and use of AP Style. CSU

**CMSD 123A (C-ID JOUR 130)****News Media Production**

Unit(s): 4.0 Class Hours: 72.0 Lecture, 180.0 Lab total.

A production-based course designed around a functioning media organization, providing students practical training in print, digital and Web-based media through work as members of the campus news magazine el Don and its website eldonnews.org. Students utilize a digital laboratory to gain practical experience in a variety of disciplines, including writing, editing, design, photography, audio, visual, multimedia and emerging technologies. Arranged laboratory hours (TBA) 10 hours per week. CSU

**CMSD 123B (C-ID JOUR 131)****Intermediate News Media Production**Unit(s): 4.0 Class Hours: 72.0 Lecture total.*Prerequisite: CMSD 123A with a minimum grade of C.*

An intermediate level production-based course designed around a functioning media organization, providing students practical training in print, digital and web-based media through work as members of the campus news magazine el Don and its website eldonnews.org. Students utilize a digital laboratory to gain practical experience in a variety of disciplines, including writing, editing, design, photography, audio, visual, multimedia and emerging technologies. Completion of CMSD 123A is required. Arranged laboratory hours (TBA)10 hours per week. CSU

**CMSD 123C****Advanced Intermediate News Media Production**Unit(s): 4.0 Class Hours: 72.0 Lecture total.*Prerequisite: CMSD 123B with a minimum grade of C.*

An advanced intermediate level production- based course designed around a functioning media organization, providing students practical training in print, digital and Web- based media through work as members of the campus news magazine el Don and its website eldonnews.org. Students utilize a digital laboratory to gain practical experience in a variety of disciplines, including writing, editing, design, photography, audio, visual, multimedia and emerging technologies. Completion of CMSD 123B required. Arranged laboratory hours (TBA)10 per week. CSU

**CMSD 123D****Advanced News Media Production**Unit(s): 4.0 Class Hours: 72.0 Lecture total.*Prerequisite: CMSD 123C with a minimum grade of C.*

An advanced level production-based course designed around a functioning media organization, providing students practical training in print, digital, and Web-based media through work as members of the campus news magazine el Don and its website eldonnews.org. Students utilize a digital laboratory to gain practical experience in a variety of disciplines, including writing, editing, design, photography, audio, visual, multimedia, and emerging technologies. Completion of CMSD 123C required. Arranged laboratory hours (TBA)10 per week. CSU

**CMSD 150****Introduction to Public Relations**Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An exploration of the principles, history and development, and professional practice of modern public relations. Includes concepts of planning and executing effective communication strategies, including message design and distribution, for any organization. CSU

**CMSD 160 (C-ID JOUR 160)****Introduction to Photojournalism**Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Explores the photographer as a journalist, focusing on theory and practice in press and publications photography, with emphasis on using the camera as a reporting and communications tool. Stresses news, feature photography, and photographic essays, including composition, impact, and creativity, for newspapers, magazines, Internet, and other mass communications media. CSU

**CMSD 201****Visual Reporting**Unit(s): 2.0 Class Hours: 36.0 Lecture, 18.0 Lab total.

Course stresses how to perceive and select visual images through work with a digital camera, a computer, and related graphics software. Students learn application and manipulation of images in digital form by focusing on telling stories through pictures and informational graphics. Students serve as visual reporters for campus media. CSU

**CMSD 210 (C-ID JOUR 210)****Intermediate Reporting and Newswriting**Unit(s): 3.0 Class Hours: 54.0 Lecture total.*Prerequisite: CMSD 121 with a minimum grade of C.*

This course is a continuation of Introduction to Newswriting and Reporting and focuses on coverage of public affairs reporting, including local and regional government, police, courts, school, and city boards. It includes both on- and off-campus reporting and writing, stressing news presentation for a variety of media purposes through multiple platforms. CSU

**CMSD 222****Writing Across Media**Unit(s): 3.0 Class Hours: 54.0 Lecture total.*Prerequisite: ENGL 101 or ENGL 101H or CMSD 121 with a minimum grade of C.*

For writing students seeking a better understanding of non-fictional prose genres focusing on narrative storytelling techniques for Web, Multimedia and Print. Emphasizes integration of writing skills across media formats. CSU

**CMSD 298A****Designing for Print and Digital Media**Unit(s): 3.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

A comprehensive course emphasizing professional standards, theory, and techniques in print, digital, and Web-based design. Students use a digital laboratory as a platform for training in design theory, visual organization, color theory, scale, unity, and use of typography. For those interested in design careers. CSU

**CMSD 298B****Intermediate Designing for Print and Digital Media**Unit(s): 3.0 Class Hours: 54.0 Lecture, 54.0 Lab total.*Prerequisite: CMSD 298A with a minimum grade of C.*

An intermediate level comprehensive course emphasizing professional standards, theory, and techniques in print, digital, and Web-based design. Students use a digital laboratory as a platform for training in design theory, visual organization, color theory, scale, unity, and use of typography. For those interested in design careers. Completion of CMSD 298A is required. CSU

**COMPUTER SCIENCE (CMPR)****CMPR 100**

The Computer and Society

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to the area of computers and their relationship to today's information society. Examines a broad overview of topics including hardware, software, networking, information technology, and the Internet. The student will explore the implication and effect of technology on society, careers, and ethics. CSU/UC

**CMPR 104****Cooperative Work Experience Education- Occupational**

Unit(s): 1.0-4.0 Class Hours: 60.0-300.0 Lab total.

This work experience course of supervised employment is designed to assist students to acquire desirable work habits, attitudes and skills in a field related to the students' major so as to enable them to become productive employees. This course also provides students with career awareness for jobs. 75 hours of paid work or 60 hours of un-paid work equals one unit of course credit. Student repetition is allowed per Title 5, Section 55253. CSU

**CMPR 105****Visual BASIC Programming**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduction to programming and Visual BASIC. Emphasis on programming fundamentals and the creation of applications with Visual BASIC. No previous programming experience required. Students will write programs on PC compatible computers. CSU/ UC

**CMPR 112 (COMP 112)****Java Programming**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Study of the Java language, its features and applications. CSU/UC

**CMPR 113****Advanced Java**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: CMPR 112 with a minimum grade of C.*

This course will introduce Text Processing, Inheritance, Exception's I/O, Intro and Advanced GUI Applications, Arrays, Advanced Classes and Database Connections using Java Database Connectivity (JDBC). Students should already have knowledge of Java in Decision Making using If Conditional Statements, Basic Loops, Creating Methods and Creating Classes. CSU/UC

**CMPR 114****Python Programming**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Students will be introduced to the syntax of Python, the methods used to incorporate Python into creating business applications, and using Python to create interactive forms. Students will also learn to enhance Business Applications through the use of Interactive Programming utilizing forms, objects, looping constructs, variables, classes and the use of various data-types. CSU/UC

**CMPR 117****Perl Programming and CGI**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Students will be introduced to the Perl scripting language syntax, data types, input/output, managing system processes, database programming, CGI programming and Web programming. CSU

**CMPR 118****JavaScript Programming**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Students will be introduced to the syntax of JavaScript, the methods used to incorporate JavaScripts into HTML documents, and using JavaScripts to create interactive forms. Students will also learn to enhance Web pages through the use of Interactive Programming utilizing forms, frames, documents, Windows, loops, strings, and cookies. CSU

**CMPR 120 (C-ID COMP 112)****Introduction to Programming**

Unit(s): 3.0 Class Hours: 54.0 Lecture, 18.0 Lab total.

*Prerequisite: MATH 083 or MATH 084 with a minimum grade of C.*

Introduction to programming concepts including data types, mathematical operations, elementary input/output, and the basic control structures of sequence, selection, iteration, and functions. Program design techniques utilizing structured and object-oriented methodologies will be emphasized. CSU/UC

**CMPR 121 (C-ID COMP 122)****Programming Concepts**

Unit(s): 3.0 Class Hours: 54.0 Lecture, 18.0 Lab total.

*Prerequisite: CMPR 120 with a minimum grade of C.*

Continuing introduction to programming concepts, development of algorithms utilizing functions, classes, and the primary control structures. Program I/O; strings and arrays; data types; classes, and objects. Documentation techniques. CSU/UC

**CMPR 124A****MCDST Preparation**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: CMPR 100 with a minimum grade of C.

Study of skills needed to successfully support end-users and to successfully troubleshoot desktop environments that are running the Microsoft operating systems. Student will be provided with the skills necessary for the Microsoft Certified Desktop Support Technician (MCDST) Exams, 70-271 and 70-272. CSU

**CMPR 125****Help Desk Fundamentals**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduction to Help Desk "soft skills," such as effective communication, analytical thinking, diplomacy, problem solving, leadership, team building, and listening skills. In addition to learning necessary soft skills, students will be familiar with a help-desk environment, its function and organization. CSU

**CMPR 129 (C-ID COMP 142)****Introduction to Computer Organization**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: CMPR 120 with a minimum grade of C.*

Recommended Preparation: CMPR 121 with a minimum grade of C.

Presents the organization and structure of computers at hardware and software levels: analysis and synthesis of combinatorial and sequential logic, data representation and manipulation, language structures and translation, and process administration and management. Recommended preparation: Computer Science 121 or equivalent. CSU/UC

**CMPR 131 (C-ID COMP 132)****Data Structures Concepts**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: CMPR 121 with a minimum grade of C.*

Application of simple Data Structures Concepts (ADT's) including linked structures, stacks, queues, and trees. Use of pointers, recursion, sorting algorithms, classes, and object-oriented programming to implement data structures. CSU/UC

**CMPR 134****Microsoft Windows Operating System**Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Microsoft Windows operating system. Course topics include installation, configuration, application installation and management, hardware configurations, file and information management, security, managing user accounts, networking, digital media, system maintenance and management, desk top management, and utilization of cloud storage. CSU

**CMPR 136****Building a Small Office/Home Office Network**Unit(s): 1.5 Class Hours: 27.0 Lecture total.

Plan and build a SOHO network. Students will learn about simple file-sharing networks, wireless networks, and more advanced networking technologies that connect multiple machines and devices. Students will be able to choose the networking solution that is best suited to their needs. CSU

**CMPR 137****Personal Computer Troubleshooting**Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Study of techniques and methods of PC maintenance. Topics include the interaction between hardware and software, the motherboard and CPU, managing memory, disk drives, input and output and multimedia, printers, installation, management and supporting Windows, network and Internet connectivity, purchasing and building a PC, backups, viruses, and troubleshooting PC problems. CSU

**CMPR 138****CompTIA Network+ Guide to Networks**Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course prepares students how to install, configure, and troubleshoot a computer network is a highly marketable and exciting skill. This course first introduces the fundamental building blocks that form a modern network, such as protocols, media, topologies, and hardware. It then provides in depth coverage of the most important concepts in contemporary networking, such as TCP/IP, Ethernet, wireless transmission, virtual networks, security, and troubleshooting. Student will be prepared to pass CompTIA's Network+ N10-006 certification exam. CSU

**CMPR 139****Configuration and Administration of Local Area Networks**Unit(s): 1.5 Class Hours: 27.0 Lecture total.

The configuration and administration of Windows-based local area networks, including planning, hardware, software and Internet connectivity. Recommended preparation: completion of Windows server course. CSU

**CMPR 140 (C-ID COMP 152)****Discrete Structures for Computer Science**Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Course presents the fundamentals of discrete mathematics as applied to the computer sciences. Topics include sets, relations, functions, basic logic, proof techniques, counting, graphs, trees and probability. Recommended preparation: College Algebra. CSU/UC

**CMPR 152****HTML**Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduction to HTML (Hypertext Markup Language) scripting and the creation of Hypertext documents. Topics will include the specification of the form and function of documents, inclusion of hypertext links, images, frames, tables, forms, JavaScript, VRML, and new features of HTML. CSU

**CMPR 153****A+ Essentials Hardware**Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The A+ Essentials Hardware course maps to CompTIA's A+ Essentials Hardware exam. Course covers topics related to installing, building, upgrading, repairing, configuring, troubleshooting, optimizing, diagnosing, and performing preventive maintenance of basic personal computer hardware. Lecture and hands-on experience in structured labs is included. The A+ Essentials Hardware course teaches necessary competencies for an entry-level IT professional. Topics include Personal Computer Components, Operating Systems, Networks, Security. Lecture and hands-on experience in structured labs is included. The A+ Essentials Hardware course maps to CompTIA's A+ Essentials Hardware exam. CSU

**CMPR 154****A+ Essentials Software**Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The A+ Essentials Software course teaches necessary competencies for an entry-level IT professional. Topics include Personal Computer Components, Operating Systems, Networks, and Security. Lecture and hands-on experience in structured labs is included. The A+ Essentials Software course maps to CompTIA's A+ Essentials exam. CSU

**CMPR 167****Microsoft Access**Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Relational Database Management using Microsoft Access. Includes design, creation and maintenance of a RDBMS, reports and form generation, queries, importing and exporting data, macros and modules using Access Basic. CSU

**CMPR 168****MS SQL Database Development***Formerly: Microsoft Access - Visual Basic for Applications*Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Provides an introduction to relational database fundamentals and SQL programming skills in the Microsoft environment. Topics covered include relational database architecture, database design techniques, and simple and complex query skills. This course is a continuation of CMPR-167 in utilizing Microsoft Access to analyze large amounts of information and manage related data. CSU

**CMPR 169****Structured Query Language (SQL)**Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: CMPR 167 with a minimum grade of C.

The course covers database concepts and the use of SQL (Structured Query Language). Completion of Computer Science 167 or equivalent is recommended. CSU

**CMPR 170****Introduction to Oracle**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The course will teach students the industry- leading RDBMS software and cover topics in SQL programming and PL/SQL. Students will learn to manipulate and cross-reference data and to show the importance of importing and exporting BIG data. Relational database development concepts using Oracle and application development using PL/SQL will be taught. CSU/UC

**CMPR 173****Introduction to Networking Technology**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A comprehensive overview of networking technology, including a history of LAN development and the uses and benefits of LAN's. Students are introduced to LAN terminology, components, standards, and upper level protocols. CSU

**CMPR 175****CompTIA Security+ Guide to Network Security**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: CMPR 138 with a minimum grade of C.

This course provides a comprehensive overview of network and information security topics such as threats, attacks, vulnerabilities, application/ data/infrastructure security, cryptography, operational/ organizational security, risk management, disaster recovery, business continuity, as well as computer forensics. The contents also map to the CompTIA Security+ certification objectives to prepare students for the exam. CSU

**CMPR 198-00****Special Topics**

Unit(s): 1.0-3.0 Class Hours: 18.0-54.0 Lecture total.

Courses on a variety of contemporary topics will be offered to meet the interests and needs of students in Computer Science and Computer Information Systems. CSU

**CMPR 205****Advanced Visual Basic**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: CMPR 105 with a minimum grade of C.*

Advanced programming for those seeking to further develop their skills using Visual Basic programming language. Course will cover the advanced features of the Visual Basic programming language, data structures, and advanced programming techniques available with Visual Basic. CSU/UC

**CMPR 213****C# Programming**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: CMPR 120 with a minimum grade of C.

Study of C# programming. Topics covered include the .NET environment, object-oriented programming including inheritance and polymorphism, and writing graphical user interfaces. Completion of Computer Science 120 is recommended. CSU/UC

**CMPR 214****XML Programming**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduction to XML (Extensible Markup Language). The course covers what it is, how it works, what technologies surround it, and how it can be used in data handling and web pages. Knowledge of HTML recommended. CSU

**CMPR 247****Windows Server Operating System**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Installation, management, and configuration of Windows Server operating system for managing network environments. Recommended preparation: knowledge of any client-level Windows operating system. CSU

**CMPR 248****Microsoft SQL Server**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Microsoft SQL Server, relational database concepts, programming with SQL and Transact-SQL, stored procedures, triggers, and use of client tools. Course is designed for developers and database administrators. Basic knowledge of SQL, programming and/or database concepts is helpful. CSU

**COUNSELING (CNSL)****CNSL N45****Orientation to College**

Unit(s): 0.5 Class Hours: 9.0 Lecture total.

Introduction to college services and programs. Identification and exploration of programs and services designed to assist students entering college credit courses.

**CNSL N98****Topics**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

A description of the course that will appear in the class schedule.

**CNSL 021****Math Study Strategies**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

This course is designed to give intensive assistance to students in the areas of solving word problems, group study skills, test-taking strategies, note taking, and time management. Topics also include learning styles, active listening, and overcoming barriers to math comprehension.

**CNSL 100****Lifelong Understanding and Self- Development**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Integrates concepts of lifelong understanding pertaining to career choice, educational planning, and self inventory. Skills, values, and interest assessments are utilized. Emphasis is on applying psychological principles to values clarification, goal setting, and decision making. Students analyze social/cultural conditioning and explore successful strategies for living in a diverse society. CSU/UC



### **CNSL 103**

#### **Educational Planning**

Unit(s): 0.5 Class Hours: 9.0 Lecture total.

This course is designed to introduce students to the process of composing an educational plan. Emphasis is placed on the objective assessment of Career/Technical Education and transfer options. Students will identify an educational pathway for Career/Technical Education, AA/AS degree, and/or university transfer. CSU/UC

### **CNSL 104**

#### **Personal and Goal Development for Educational Planning**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

This course will facilitate the development of goals for educational planning. Students taking this course will receive an overview of graduation requirements, transfer requirements, academic policies, and college resources. Additional topics will include: student development theory, internal and external influences on educational success, purpose for attending college, and strategies for living a balanced life. CSU/UC

### **CNSL 106**

#### **Inquiries Into Higher Education**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

A comprehensive and advanced study of selecting and completing an academic plan, developing goals and objectives, and choosing a college major. Topics include study techniques, assessing interests and skills and planning a major. CSU/UC

### **CNSL 107**

#### **The Freshman Experience**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Integration of educational, socio-economic, and psychological factors that contribute to success in college. Development of personal learning style as it interfaces with the linked college classes. Development of college-level learning skills. CSU/UC

### **CNSL 110**

#### **University Transfer Research**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Development and enhancement of decision-making strategies for transfer students. Identification of educational/career goals. Analysis, comparison, and evaluation of university entrance, major, and post-graduate requirements, and student services. On-site research/field study at universities. CSU/UC

### **CNSL 111**

#### **Learning Skills Development**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Application of educational/psychological principles in the development of effective learning skills for college courses. Topics also include identifying diversities of cultural influence, learning style, time management, textbook study/comprehension, note-taking, research preparation, and testing. CSU

### **CNSL 114**

#### **Careers in Teaching**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Introduction to the teaching profession, culturally diverse student populations, career ladders and options, academic preparation, experience, credentials required for employment, utilizing career assessments, principles of goal setting, and exposure to teaching environments and teaching professionals. Students will formulate a career objective and develop an educational plan. (Same as Child Development 114.) CSU

### **CNSL 116**

#### **Career/Life Planning and Personal Exploration**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course is designed to assist students in successfully establishing and achieving education, career, and life goals. Students are guided through a reflective process that focuses on values, interests, personality, skills, and learning styles. Career and education options are researched, and students are exposed to college resources and support services. Decision making models and goal setting techniques are examined and will be used to develop short and long term education, and career and life plans. CSU/UC

### **CNSL 120**

#### **Assertive Self Development**

Unit(s): 3.0 Class Hours: 48.0 Lecture total.

A process for building self esteem and confidence in personal/social/professional interactions without feeling excess anger, guilt, stress, or passivity. Psychological theories will be used to identify, analyze, and change ineffective thought systems and behavior. CSU

### **CNSL 121**

#### **Introduction to STEM Study Skills**

Unit(s): 1.0 Class Hours: 16.0 Lecture total.

This course is designed to introduce specialized study techniques for students in science, technology, engineering, and math courses. Effective learning processes will be examined through facilitated, structured peer interaction; strategies for complex problem solving; time management; and overcoming obstacles to achievement in rigorous coursework. CSU

### **CNSL 122**

#### **STEM Study Strategies**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

This course examines and employs advanced study techniques for students in science, technology, engineering, and math courses. Effective learning processes will be strengthened through applying emotional intelligence concepts to group and classroom study, creating an exam preparation plan and formulating long and short term goals. CSU

### **CNSL 124**

#### **College Success and Personal Growth**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Analysis of the concepts related to learning and self-development as a lifelong process. Examination of human motivation from psychological, social, and physiological perspectives. An evaluation of the roles of values, ideals, and principle centered leadership in achieving balance in life. CSU/UC

**CNSL 125****Exploring Leadership**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This introductory course will examine the fundamental concepts of effective leadership through reading, discussion, research, and inventories for self-awareness and assessment. The course will prepare students to understand the importance of leadership in careers, communities, and society in general and to assume responsibilities of leadership roles in college and community settings. CSU

**CNSL 128****Introduction to Community Activism**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The study of issues facing communities and ways individuals can become involved in solving community problems. Introduces the study of communities in theory and practice: forces shaping past and present communities and issues defining contemporary communities. This course will facilitate the understanding of human beings as integrated physiological, psychological, and social entities within the context of communities and the process of change. CSU/UC

**CNSL 144****Reasoning and Problem Solving**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The nature of critical thinking, models and strategies; common fallacies of reasoning, self-regulation in the thinking process; application of critical thinking to complex issues of life. CSU/UC

**CNSL 150****Introduction to Human Services**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The history and philosophy of human services including theoretical frameworks, the function and orientation of human service organizations and the roles and qualifications of human service workers. A study of the target populations served by the human services and the professional, ethical, and cultural issues facing the human service field. CSU

**CNSL 155****Skills for the Helping Professions**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An exploration of processes for increasing mental flexibility and assisting people in getting resolution on life issues. Focus is on the theory and practice of methods which are based in inquiry, distinction, resolution, and integration. The role of self-responsibility and self-awareness will be emphasized. CSU

**CNSL 198****Topics**

Unit(s): 0.5-3.0 Class Hours: 9.0-54.0 Lecture total.

Description of the course that will appear in the class schedule CSU

**CNSL 220****The Child as a Victim**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Exploration of battered, molested, and neglected children from five vantage points: child, law, parents, social services, and educator (Same as Child Development 220). CSU

**CRIMINAL JUSTICE (CJ)****CJ 098****Topics Course**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Varies with topic.

**CJ 101 (C-ID AJ 110)****Introduction to Criminal Justice**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course introduces students to the characteristics of the criminal justice system in the United States. Focus is placed on examining crime measurement, theoretical explanations of crime, responses to crime, components of the system, and current challenges to the system. The course examines the evolution of the principles and approaches utilized by the justice system and the evolving forces that have shaped those principles and approaches. Although justice structure and process are examined in a cross cultural context, emphasis is placed on the US justice system, particularly the structure and function of US police, courts, and corrections. Students are introduced to the origins and development of criminal law, legal process, and sentencing and incarceration policies. CSU/UC

**CJ 101H****Honors Introduction to Criminal Justice**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

Honors-level enriched content regarding the complexities of the criminal justice system. Increased focus is placed on examining crime measurement, theoretical explanations of crime, responses to crime, components of the system, and current challenges to the system. The course examines and appraises the evolution of the principles and approaches utilized by the justice system and the evolving forces that have shaped those principles and approaches. Although justice structure and process are examined in a cross cultural context, increased emphasis is placed on the US justice system, particularly the structure and function of US police, courts, and corrections. Students will also examine the origins and development of criminal law, legal process, and sentencing and incarceration policies. CSU/UC

**CJ 102 (C-ID AJ 200)****Introduction to Corrections**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introductory course in corrections in the criminal justice system. Emphasis on history, types, analysis, alternatives, and impacts of punishment. Critical examination of types of correctional institutions and persons housed in them, and examination of current issues and challenges in the corrections field. CSU

**CJ 103 (C-ID AJ 120)****Concepts of Criminal Law**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Analysis of criminal liability and the classification of crimes against persons, property, morals, and public welfare. Special emphasis is placed on the classification of crime, the general elements of crime, the definitions of common and statutory law, and the nature of acceptable evidence. Limited discussion of prosecution and defense decision making, criminal culpability, and defenses to crimes. CSU/UC

### **CJ 103H**

#### **Honors Concepts of Criminal Law**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

Honors-level enriched content regarding criminal law. Presents analysis of criminal liability and the classification of crimes against persons, property, morals, and public welfare. Increased emphasis and appraisal is placed on the classification of crime, the general elements of crime, the definitions of common and statutory law, and the nature of acceptable evidence. Expanded discussion of prosecution and defense decision making, criminal culpability, and defenses to crimes. CSU/UC

### **CJ 104**

#### **Prison Experience**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: Full background check required.*

A practical and in-depth study of adult corrections in the United States. This class includes field trips to jails and prisons in the surrounding area, with follow-up analysis, discussion, and written assignments. Full background check required for access to facilities. CSU

### **CJ 105 (C-ID AJ 124)**

#### **Legal Aspects of Evidence**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course examines categories of evidence and legal rules governing its admission and exclusion in the criminal process. CSU

### **CJ 106**

#### **Coroner Death Investigations**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The investigation of homicides, suicides, accidents, and natural deaths. Emphasis on evidence collection and identification of cause of death. Topics include violent crime wounds, fire and electrical wounds, traffic collision fatalities, buried bodies, skeletal remains, and autopsy protocols. CSU

### **CJ 107 (C-ID AJ 122)**

#### **Principles and Procedures in the Criminal Justice System**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An examination and analysis of due process in criminal proceedings from pre-arrest through trial and appeal, utilizing statutory law and state and constitutional law precedents. (Same as Paralegal 107.) CSU

### **CJ 108 (C-ID AJ 150)**

#### **Crime Scene Investigation**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to the role of forensics in criminal investigations. An examination of the methods utilized in the forensic analysis of crime scenes, pattern evidence, instruments, firearms, questioned documents, and controlled substances. CSU

### **CJ 109 (C-ID AJ 160)**

#### **Community Interaction**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Examines the complex, dynamic relationship between communities and the justice system in addressing crime and conflict, with an emphasis on the challenges and prospects of administering justice within a diverse multicultural population. Topics may include the consensus and conflicting values in culture, religion, and law. CSU/UC

### **CJ 109H**

#### **Honors Community Interaction**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

Honors-level enriched content regarding community interaction. This course examines and evaluates the complex, dynamic relationship between communities and the justice system in addressing crime and conflict, with an increased emphasis on the challenges and prospects of administering justice within a diverse multicultural population. Topics will include the consensus and conflicting values in culture, religion, and law. CSU/UC

### **CJ 110**

#### **Street Gangs**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An examination of street gangs in the United States, with emphasis on California and the local area. Topics include ethnic gangs, taggers, hate groups, and prison gangs, and current efforts to suppress their criminal activities, via enforcement, rehabilitation, and prevention. CSU

### **CJ 148**

#### **Report Writing for Criminal Justice Personnel**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: Completion of English 061X with a C or better.

To develop practical, precise report writing techniques as well as general writing skills applicable to law enforcement and corrections. CSU

### **CJ 198**

#### **Topic Course**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Varies with course. CSU

### **CJ 205 (C-ID AJ 140)**

#### **Criminal Investigation Principles**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Techniques, procedures, and ethical issues in the investigation of crime. Emphasis upon organization of the investigative process, crime scene searches, interviewing and interrogating, surveillance, sources of information, utility of evidence, scientific analysis of evidence, and the role of the investigator in the trial process. CSU

### **CJ 209**

#### **Organized Crime**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

In-depth study of the development and methodology of international organized crime. Host countries and areas include: Italy, Sicily, Japan, China, Colombia, Mexico, Russia, Haiti, Cayman Islands, and Caribbean. Emphasis on economic and societal impacts on the United States. CSU

**CJ 220 (C-ID AJ 220)****Juvenile Delinquency and Control**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An examination of the origin, development, and organization of the juvenile justice system. Explores the theories that focus on juvenile law, courts, and processes, and the constitutional protections extended to juveniles within the US justice system. CSU

**CRIMINAL JUSTICE ACADEMIES (CJA)****CJA 006B****Arrest and Control Training/ACT**

Unit(s): 0.1-0.5 Class Hours: 1.0-3.0 Lecture, 3.0-21.0 Lab total.

*Prerequisite: CJA 099A or CJA 099D with a minimum grade of C or Commission on Peace Officer Standards and Training (POST) certified basic law enforcement academy or equivalent as determined by the Assistant Dean of Criminal Justice Academies. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency. Ability to legally possess a baton in the State of California. Obtaining a medical clearance and medical insurance prior to attending is highly recommended. Ability to participate in strenuous activities such as kneeling, lying in prone position while handcuffed, handcuffing other persons, use of impact weapons, and physically controlling non-compliant or combative persons. Students will be exposed to tear gas and pepper spray.*

This course builds upon the student's existing skills and knowledge in the legal, safe, and proper application of arrest and control technique in the law enforcement environment. Instruction includes safe and proper use of ground fighting technique, use of chemical weapons, use of non-lethal weapons, use of carotid control technique, and current case law.

**CJA 007A****Gangs, Cults and Hate Crimes**

Unit(s): 0.1-0.5 Class Hours: 4.0-40.0 Lab total.

*Prerequisite: CJA 100A with a minimum grade of C or its equivalent and eligible to receive peace officer training as defined in Government Code Section 1031.*

This course covers gangs, cults and hate crimes: Ethnic gangs, organized crime, current gang trends, gangs and drugs, and drug cartels. Course information is POST and/or STC approved.

**CJA 007B****Gangs, Cults, Subcultures, and Hate Crimes**

Unit(s): 0.2-0.5 Class Hours: 4.0-10.0 Lecture, 0.0-14.0 Lab total.

*Prerequisite: CJA 099A with a minimum grade of C or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. Fundamental terms, concepts, laws and procedures basic to California law enforcement will not be taught or explained. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.*

Course is designed to provide peace officers with current instruction on gangs, cults, subcultures, and hate crimes. Course content includes current trends, recent changes in laws, and strategies to address associated criminal activity.

**CJA 008B****Corrections Supplemental Core Course**

Unit(s): 5.5 Class Hours: 89.0 Lecture, 7.0 Lab total.

*Prerequisite: CJA 099A or CJA 099D with a minimum grade of C or Commission on Peace Officer Standards and Training (POST) certified basic law enforcement academy, or equivalent as determined by the Assistant Dean of Criminal Justice Academies. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.*

This course is designed for the corrections officer who has completed the Commission on Peace Officers Standards and Training (POST) Basic Academy. It meets the California Standards and Training for Corrections (STC) regulations for entry-level training for personnel who work in adult custodial programs and facilities.

**CJA 008C****Emergency Response Team Training**

Unit(s): 0.2 Class Hours: 1.0 Lecture, 7.0 Lab total.

*Prerequisite: CJA 099A with a minimum grade of C or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. Fundamental terms, concepts, laws and procedures basic to California law enforcement will not be taught or explained. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.*

Course is designed to enhance and review Emergency Response Team (ERT) responsibilities and protocols in compliance with Standards and Training for Corrections (STC).

**CJA 009B****Fitness for Law Enforcement**

Unit(s): 0.1 Class Hours: 2.0 Lecture, 14.0 Lab total.

Fitness training designed specifically for law enforcement applicants and those with an interest in entering a law enforcement basic police academy program.

**CJA 009C****Advanced Narcotics Training**

Unit(s): 0.2-0.5 Class Hours: 4.0-10.0 Lecture, 0.0-14.0 Lab total.

*Prerequisite: CJA 099A with a minimum grade of C or POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. Fundamental terms, concepts, laws and procedures basic to California law enforcement will not be taught or explained. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.*

Course is designed to cover all aspects of illegal drug enforcement, including legal updates, search and seizure updates, investigative techniques, and other topics related to the enforcement of controlled substances statutes.

### **CJA 009D**

#### **Drug Trends, Identification, Packaging, and Symptomology**

Unit(s): 0.2 Class Hours: 3.0 Lecture, 5.0 Lab total.

*Prerequisite: CJA 099A with a minimum grade of C or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. Fundamental terms, concepts, laws and procedures basic to California law enforcement will not be taught or explained. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.*

This course is designed to provide law enforcement professionals with the knowledge to identify and safely handle controlled substances. Report writing, evidence collection, and presumptive testing will be discussed. A combination of may be taken a maximum of four enrollments.

### **CJA 009E**

#### **Narcotics Investigation**

Unit(s): 3.0 Class Hours: 39.0 Lecture, 41.0 Lab total.

*Prerequisite: CJA 099A with a minimum grade of C or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. Fundamental terms, concepts, laws and procedures basic to California law enforcement will not be taught or explained. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.*

This course is designed for sworn law enforcement officers assigned to investigate narcotic violations. The course prepares the student to identify, arrest, and successfully prosecute narcotic violators.

### **CJA 010**

#### **Pre-Employment Preparation for Law Enforcement**

Unit(s): 1.5 Class Hours: 14.5 Lecture, 33.5 Lab total.

Criminal justice career information will be provided. Emphasis will be on preparing students to successfully complete law enforcement pre-employment testing including oral boards, physical agility, and training academy requirements.

### **CJA 010B**

#### **Supervision and Leadership**

Unit(s): 0.3-1.0 Class Hours: 5.0-8.0 Lecture, 3.0-32.0 Lab total.

Course is designed to enhance the professional knowledge of law enforcement supervisors in specified groupings of leadership, supervision skills, legal issues, and handling of workplace investigations, in accordance with POST and STC Standards.

### **CJA 010D**

#### **Explorer Training Academy**

Unit(s): 1.0-2.5 Class Hours: 6.0-16.0 Lecture, 34.0-92.0 Lab total.

*Prerequisite: Students sponsored by law enforcement agencies must meet agency Explorer Post application guidelines. Self-sponsored students must meet all prerequisites prior to being admitted into the course, and will be responsible for providing their own required uniforms and equipment. Self-sponsored student's applications will be evaluated and screened by the Criminal Justices Academies Coordinator and staff to ensure students are sufficiently prepared. Obtaining a medical clearance and medical insurance prior to attending is highly recommended. Ability to participate in strenuous physical activities such as running, marching, push-ups, sit-ups, kneeling, jumping, climbing, and handcuffing. Students will be exposed to loud noises, tear gas, and pepper spray. If the student is a minor, the parent(s) or legal guardian must sign consent forms and waivers related to and confirming student's physical, mental, and medical suitability for attending this course. Parent(s) or legal guardian must also sign consent forms for medical treatment and transportation of minor student. Students must meet academy hygiene and grooming standards, and will be required to follow strict rules of conduct at all times. Violation of rules of conduct may result in immediate dismissal from the course.*

This course will prepare Law Enforcement Explorers for volunteer work at law enforcement agencies.

### **CJA 011**

#### **Field Training Officer**

Unit(s): 1.5 Class Hours: 21.0 Lecture, 19.0 Lab total.

*Prerequisite: CJA 099A with a minimum grade of C or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. Fundamental terms, concepts, laws and procedures basic to California law enforcement will not be taught or explained. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.*

This course is designed for sworn law enforcement officers assigned to supervise and train new officers. This course meets the requirements for field training officers as defined in POST Regulation 1004.

### **CJA 012**

#### **Basic Homicide Investigation**

Unit(s): 1.5 Class Hours: 25.0 Lecture, 11.0 Lab total.

*Prerequisite: CJA 099A with a minimum grade of C or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. Fundamental terms, concepts, laws and procedures basic to California law enforcement will not be taught or explained. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.*

This course is certified by California Peace Officer Standards and Training (POST) and meets the requirements for basic homicide investigations for California peace officers. The course is presented in cooperation with the Orange County Sheriff's Department.

**CJA 014****Immigration and Customs Enforcement Correctional Training**

Unit(s): 0.2-0.5 Class Hours: 4.0-8.0 Lecture total.

*Prerequisite: CJA 008B or CJA 069B with a minimum grade of C.*

This course is intended for correctional officers working in correctional institutions that are responsible for housing ICE detainees.

**CJA 015****Patrol School**

Unit(s): 2.5 Class Hours: 23.0 Lecture, 57.0 Lab total.

*Prerequisite: CJA 099A with a minimum grade of C or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. Fundamental terms, concepts, laws and procedures basic to California law enforcement will not be taught or explained. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.*

This course is designed for sworn law enforcement personnel who have completed a basic police academy program and are preparing themselves for an assignment as a field patrol officer. Students will build upon the knowledge they obtained in formal training and from previous law enforcement assignments and apply it to the course content in this course.

**CJA 015A****Sergeants Patrol Transition Course**

Unit(s): 1.0 Class Hours: 5.0 Lecture, 35.0 Lab total.

*Prerequisite: CJA 099A with a minimum grade of C or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. Fundamental terms, concepts, laws and procedures basic to California law enforcement will not be taught or explained. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.*

Course is designed to prepare a police supervisor to transition to a patrol assignment.

**CJA 016****Vehicle Theft for Patrol and Traffic Officers**

Unit(s): 0.4 Class Hours: 2.0 Lecture, 14.0 Lab total.

*Prerequisite: CJA 099A with a minimum grade of C or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. Fundamental terms, concepts, laws and procedures basic to California law enforcement will not be taught or explained. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.*

This course is certified by California Peace Officer Standards and Training (POST) and meets the requirements for advanced officer training in auto theft for patrol and traffic officers. Prior to taking this course students should have formal training and a working knowledge of patrol operations and criminal investigations. The course is presented in cooperation with the Orange County Sheriff's Department.

**CJA 021****P.C. 832, Laws of Arrest**

Unit(s): 1.5 Class Hours: 27.0 Lecture, 13.0 Lab total.

This course of instruction will provide the student with a basic knowledge of law enforcement. The course will cover history of law enforcement, arrest, and search and seizure laws. This course is Peace Officer Standard Training (P.O.S.T.) certified.

**CJA 021A****PC 832 Firearms**

Unit(s): 0.5 Class Hours: 1.0 Lecture, 23.0 Lab total.

*Prerequisite: Students must pass DOJ Livescan and application screening by Orange County Sheriff's Department Training Division.*

This course of instruction will provide the student with a basic knowledge of firearms, as well as related safety and liability issues. The course is P.O.S.T. certified and presented in cooperation with the Orange County Sheriff. (Pass/No Pass Only)

**CJA 026A****Training Academy Preparation**

Unit(s): 0.3 Class Hours: 16.0 Lab total.

*Prerequisite: California POST Certified Peace Officer.*

This course is designed to prepare the student for the Basic Law Enforcement Academy. It will include drill, ceremony, physical training, reporting, and speeches.

**CJA 029B****Bomb Technician Introduction**

Unit(s): 2.0 Class Hours: 30.0 Lecture, 10.0 Lab total.

*Prerequisite: CJA 099A or CJA 099D with a minimum grade of C or Commission on Peace Officer Standards and Training (POST) certified basic law enforcement academy or equivalent as determined by the Assistant Dean of Criminal Justice Academies. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency. Student must possess, at minimum, a currently valid U.S. government secret clearance that authorizes them to attend this course. Student must be approved by FBI to attend this course. Student must meet FBI bomb technician requirements described in the National Guidelines for Bomb Technicians, as published by the FBI and National Bomb Squad Commanders' Advisory Board.*

This course is designed for newly assigned bomb technicians.

Topics include introduction to explosives, basic electricity, render safe procedures, bomb threats, threat assessment, and post blast investigations.

**CJA 029C****Active Bomber Course**

Unit(s): 0.5 Class Hours: 2.0 Lecture, 22.0 Lab total.

*Prerequisite: CJA 099A or CJA 099D with a minimum grade of C or Commission on Peace Officer Standards and Training (POST) certified basic law enforcement academy, or equivalent as determined by the Assistant Dean of Criminal Justice Academies. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency. Student must: 1) be free of felony convictions; 2) possess a valid California Driver's License; 3) undergo a fingerprint and criminal history check; 4) be a minimum of 18 years of age; 5) be a United States high school graduate or pass the GED, pass the California High School Proficiency Examination, or have attained a two-year or four-year degree from an accredited college or university; and 6) complete a medical suitability examination.*

This course helps prepare law enforcement first responders react to a suicide bombing incident. Topics include threat evaluation, deployment of force, decision making, tactics, and scenarios.

## **CJA 029D**

### **Homemade Explosive Course**

Unit(s): 0.3 Class Hours: 4.0 Lecture, 4.0 Lab total.

*Prerequisite: CJA 099A or CJA 099D with a minimum grade of C or Commission on Peace Officer Standards and Training (POST) certified basic law enforcement academy, or equivalent as determined by the Assistant Dean of Criminal Justice Academies. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency*

Course is designed to educate first responders on the dangers of homemade explosive devices and how to recognize bomb-making components and materials

## **CJA 029E**

### **Explosive Recognition and Response**

Unit(s): 0.1 Class Hours: 2.0 Lecture, 2.0 Lab total.

*Prerequisite: CJA 099A or CJA 099D with a minimum grade of C or Commission on Peace Officer Standards and Training (POST) certified basic law enforcement academy, or equivalent as determined by the Assistant Dean of Criminal Justice Academies. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.*

Course is designed to teach students how to recognize the various components of explosions, as well as recognition of booby traps designed to harm first responders.

## **CJA 034B**

### **Brady for Law Enforcement**

Unit(s): 0.1 Class Hours: 2.0 Lecture, 2.0 Lab total.

Course is designed to provide law enforcement personnel with instruction on the Brady Rule.

## **CJA 034C**

### **Law Enforcement Update**

Unit(s): 0.2-0.5 Class Hours: 4.0-8.0 Lecture, 0.0-20.0 Lab total.

*Prerequisite: CJA 099A with a minimum grade of C or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. Fundamental terms, concepts, laws and procedures basic to California law enforcement will not be taught or explained. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency. or Legally approved to possess a baton in the State of California. Obtaining a medical clearance and medical insurance prior to attending is highly recommended. Ability to participate in strenuous activities such as kneeling, lying in a prone position while handcuffed, handcuffing other persons, use of impact weapons, and physically controlling non-compliant or combative persons. Students may be exposed to tear gas and/or pepper spray.*

Course is designed to provide both sworn and non-sworn law enforcement personnel with training that is mandated for their continued professional certification and employment. All instruction is either POST or STC certified.

## **CJA 034D**

### **Courthouse Operations**

Unit(s): 0.3 Class Hours: 4.0 Lecture, 4.0 Lab total.

*Prerequisite: CJA 099A with a minimum grade of C or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.*

This course is designed to prepare a peace officer to work within the court system and a courthouse environment. Instruction includes the importance of ethical conduct, professionalism, preparation, and accurate witness testimony.

## **CJA 034E**

### **Continued Professional Training for Peace Officers**

Unit(s): 0.2-3.0 Class Hours: 4.0-40.0 Lecture, 4.0-40.0 Lab total.

*Prerequisite: CJA 099A with a minimum grade of C.*

This course updates and advances the student's existing knowledge and skill set associated with peace keeping and law enforcement. Instruction in evolving issues includes the safe handling of firearms, tactical shooting and movement, ground fighting, chemical weapons, government codes, penal codes, vehicle codes, health and safety codes, welfare and institution codes, and interpersonal and tactical communication, and may include additional topics determined by legislature or regional needs. (Pass/No Pass Only)

## **CJA 038A**

### **Tactical/Weapons Training**

Unit(s): 0.1-0.5 Class Hours: 0.0-4.0 Lecture, 4.0-36.0 Lab total.

*Prerequisite: CJA 099A with a minimum grade of C or its equivalent and eligible to receive peace officer training as defined in California Government Code Section 1031.*

This course provides students with weapons and law enforcement tactical training to include range qualifications, nomenclature, positioning, trigger pull, and tactics planning. POST required training. (Pass/No Pass Only)

## **CJA 038B**

### **Basic SWAT Course**

Unit(s): 2.0 Class Hours: 16.0 Lecture, 64.0 Lab total.

*Prerequisite: CJA 099A with a minimum grade of C and, Ability to lawfully possess fully automatic firearms, explosive ordinance, and a baton in the State of California or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.*

Recommended Preparation: Obtaining a medical clearance and medical insurance prior to attending is highly recommended. Students may be exposed to tear gas and/or pepper spray. Students should have the ability to participate in strenuous activities such as kneeling, lying in a prone position while handcuffed, handcuffing other persons, use of impact weapons, and physically controlling non-compliant or combative persons.

A Peace Officer Standards and Training certified course to train peace officers to become a member of a Special Weapons and Tactics team.

**CJA 038C****Firearms-Sighting Systems**

Unit(s): 0.1 Class Hours: 1.0 Lecture, 3.0 Lab total.

*Prerequisite:* CJA 099A with a minimum grade of C.

To inform students of the advantages and disadvantages and training considerations related to using a Miniaturized Red Dot Sight on a handgun. (Pass/No Pass Only)

**CJA 038D****Weapon Mounted Light Transition Course**

Unit(s): 0.1 Class Hours: 1.0 Lecture, 3.0 Lab total.

*Prerequisite:* CJA 099A with a minimum grade of C.

A Peace Officer Standards and Training course to train peace officers in the use of a weapon mounted light system. (Pass/No Pass Only)

**CJA 039A****First Aid/CPR Refresher**

Unit(s): 0.1 Class Hours: 1.0 Lecture, 7.0 Lab total.

*Prerequisite:* CJA099A, or CJA055B, or CJA055D, or CJA069B with a minimum grade of C, or their equivalent with a grade of Pass

Course is designed to refresh first aid and CPR training.

**CJA 039B****First Aid Refresher**

Unit(s): 0.1 Class Hours: 1.0 Lecture, 3.0 Lab total.

Course is designed to refresh first aid instruction for sworn and civilian law enforcement personnel.

**CJA 039C****Emotional Wellness for Law Enforcement**

Unit(s): 0.1 Class Hours: 1.0 Lecture, 3.0 Lab total.

Course is designed to help law enforcement personnel understand the impact and trauma of stress and the methodologies used to cope with various situations.

**CJA 040A****Basic Peer Support Training**

Unit(s): 0.4 Class Hours: 2.5 Lecture, 13.5 Lab total.

This course is designed to prepare members of a support team to respond and effectively support the psychological recovery and resilience of law enforcement personnel following a large scale critical incident. A combination of may be taken a maximum of four enrollments.

**CJA 040B****Post Critical Incident Response for Peer Support**

Unit(s): 0.2 Class Hours: 2.0 Lecture, 6.0 Lab total.

This course is designed to provide members of a Peer Support Team with advanced knowledge and techniques to support the psychological recovery and resilience of law enforcement personnel following a large scale critical incident. A combination of may be taken a maximum of four enrollments.

**CJA 055A****Driver Training/Force Option II**

Unit(s): 0.1 Class Hours: 1.0 Lecture, 3.0-6.0 Lab total.

*Prerequisite:* CJA 099A with a minimum grade of C or its equivalent and eligible to receive peace officer training as defined in Government Code Section 1031.

Course is designed to update student's skills in the area of emergency driving and use of force. (Pass/No Pass Only)

**CJA 055B****Correctional Services Assistant Academy**

Unit(s): 8.0-8.5 Class Hours: 30.0 Lecture, 330.0-370.0 Lab total.

*Prerequisite:* Students will need to successfully complete agency written test, oral screening, physical agility test, background investigation, medical, and psychological testing.

This course is designed to train new civilian employees in aspects of working in a criminal justice custody environment in a California jail.

**CJA 055D****Sheriff Special Officer Academy**

Unit(s): 8.5-9.0 Class Hours: 15.0 Lecture, 385.0-401.0 Lab total.

*Prerequisite:* Students will need to successfully complete agency written test, oral screening, physical agility test, background investigation, medical and psychological testing.

In coordination with California POST, this course provides training and certification for new sheriff special officers.

**CJA 055E****Sheriff Special Officer Transition Course**

Unit(s): 2.5-3.0 Class Hours: 14.0 Lecture, 106.0-146.0 Lab total.

*Prerequisite:* CJA 055B with a minimum grade of C.

This course is designed to provide students with the P.O.S.T. certified training required to transition from the Custody Service Assistant position to the Sheriff Special Officer position.

**CJA 059****Law Enforcement Supervisory Course**

Unit(s): 3.5 Class Hours: 48.0 Lecture, 32.0 Lab total.

*Prerequisite:* CJA 099A with a minimum grade of C or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. Fundamental terms, concepts, laws and procedures basic to California law enforcement will not be taught or explained. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.

P.O.S.T. approved course for law enforcement personnel newly appointed to a first-level supervisory position. Topics focus on understanding the roles of law enforcement personnel, and providing appropriate training and supervision in critical field situations.

**CJA 060****Basic Police Motorcycle Operator Course**

Unit(s): 1.5 Class Hours: 9.5 Lecture, 70.5 Lab total.

*Prerequisite:* CJA 099A with a minimum grade of C.

This course provides the knowledge, skills and proficiency needed to safely operate a police motorcycle during the performance of enforcement duties. The intention of the course is to produce a safe and confident rider for all law enforcement motorcycle duties. (Pass/No Pass Only)

**CJA 060A****Motorcycle Instructor Training Course**

Unit(s): 1.5 Class Hours: 7.5 Lecture, 72.5 Lab total.

*Prerequisite:* CJA 060 with a minimum grade of C.

This course is designed to provide experienced motorcycle officers with the knowledge, skill, and proficiency to instruct new motorcycle enforcement officers with the skills and safe practices required to operate a police or Sheriff's Department motorcycle. (Pass/No Pass Only)



**CJA 066****Basic Course Requalification**

Unit(s): 5.5 Class Hours: 70.0 Lecture, 66.0 Lab total.

*Prerequisite: Students must have successfully completed CJA 99A Basic Academy, or CJA 100D Modular 1 Academy, or the equivalent of either course as determined by the Assistant Dean of Criminal Justice. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency. Students must be free of felony convictions, possess a valid Driver's License, undergo a fingerprint and criminal history check, and obtain clearance from a licensed physician indicating capacity to participate in intensive physical activity. Students must furnish all of their own equipment, including ammunition and firearm. This course is designed to meet state requirements for persons qualifying under POST regulation 1008. Students must be physically able to participate in all classroom activities, including use of impact weapons, handcuffing, restraint devices, control holds, takedowns, firearm retention, and firearm takeaways.*

This course is certified by the Commission on Peace Officers Standards and Training (POST) and re-certifies students who graduated from a basic academy more than three years ago. This course also re-certifies students who have been employed as a peace officer and are returning after a break of more than three years.

**CJA 068B****Police Report Writing**

Unit(s): 0.2-0.5 Class Hours: 1.0-2.0 Lecture, 7.0-22.0 Lab total.

To develop practical, precise report writing techniques as well as general writing skills applicable to law enforcement.

**CJA 068C****Traffic Collision Investigation**

Unit(s): 0.5 Class Hours: 3.0 Lecture, 37.0 Lab total.

This course is designed to provide the student with the knowledge and ability to investigate traffic collisions. Prior to attending the course students should be familiar with the basic skills provided in Learning Domain #29 (Traffic Collision Investigation) from the POST basic police academy.

**CJA 068D****Cybercrime Investigations for First Responders**

Unit(s): 0.1 Class Hours: 8.0 Lab total.

*Prerequisite: CJA 099A with a minimum grade of C or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. Fundamental terms, concepts, laws and procedures basic to California law enforcement will not be taught or explained. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.*

Course is designed to provide law enforcement first responder with the knowledge and ability to respond to a cybercrime incident. Students will learn their role as a first responder, how cybercrimes are committed, identify persons to be interviewed, and how to gather and protect cybercrime evidence. This course is POST certified.

**CJA 068E****Criminal Investigations**

Unit(s): 0.2-1.0 Class Hours: 4.0 Lecture, 0.0-36.0 Lab total.

*Prerequisite: CJA 099A with a minimum grade of C or, Ability to lawfully possess a firearm and baton in the State of California or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.*

Recommended Preparation: Obtaining a medical clearance and medical insurance prior to attending is highly recommended. Students may be exposed to tear gas and/or pepper spray. Students should have the ability to participate in strenuous activities such as kneeling, lying in a prone position while handcuffed, handcuffing other persons, use of impact weapons, and physically controlling non-compliant or combative persons.

This course is designed to provide students with state certified instruction in conducting criminal investigations.

**CJA 069A****Continuing Professional Training for Corrections**

Unit(s): 0.2-0.5 Class Hours: 4.0 Lecture, 0.0-20.0 Lab total.

*Prerequisite: CJA 099A or CJA 055B or CJA 055D or CJA 069B or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. Fundamental terms, concepts, laws and procedures basic to California law enforcement will not be taught or explained. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency. Medical Clearance from a licensed physician indicating capacity to participate in intensive physical activity.*

Course covers all aspects of correctional officers training as required by the State of California (STC): Policies, legal update, case law, communication skills, transportation, arrest and control and weapons training.

**CJA 069B****Corrections Officer CORE Course Enforcement**

Unit(s): 9.0 Class Hours: 120.5 Lecture, 79.5 Lab total.

*Prerequisite: Medical clearance from a licensed physician indicating capacity to participate in intensive physical activity.*

This course is certified with Standards & Training for Corrections (STC) and meets the requirements for Basic Corrections Officer Core Course. Course is presented in cooperation with the Orange County Sheriff's Department.

**CJA 069C****Prison Rape Elimination Act Training**

Unit(s): 0.1 Class Hours: 2.0 Lecture, 2.0 Lab total.

Course is designed to provide employees assigned to work in a custody facility with the information they need to comply with the Prison Rape Elimination Act (PREA).

**CJA 069D****Jail Security for Professional Staff**

Unit(s): 0.2 Class Hours: 3.0 Lecture, 5.0 Lab total.

Course is designed to provide non-sworn law enforcement personnel with basic skills to operate in and around a custody facility.

**CJA 069E****Self-Defense Strategies**

Unit(s): 0.1 Class Hours: 8.0 Lab total.

*Prerequisite: Ability to legally possess a baton in the State of California. Obtain a medical clearance and medical insurance prior to attending is highly recommended. Ability to participate in strenuous activities such as kneeling, lying in prone position while handcuffed, handcuffing other persons, use of impact weapons, and physically controlling non-compliant or combative persons. Student will be exposed to tear gas and pepper spray.*

Course is designed to provide law enforcement personnel with strategies to escape physical attack while working in and around a custody facility.

**CJA 076A****Police K-9 Training**

Unit(s): 4.0-14.0 Class Hours: 8.0-20.0 Lecture, 192.0-700.0 Lab total.

*Prerequisite: CJA 099A with a minimum grade of C.*

Intensive training for law enforcement personnel in the handling, deployment, and care of a police service dog. Training is required for assignment as a canine officer. Curriculum includes basic handler, narcotics, and explosives instruction.

**CJA 076B****Canine Agitator Training**

Unit(s): 0.3-1.5 Class Hours: 2.0-8.0 Lecture, 14.0-72.0 Lab total.

Course is designed to provide students with instruction required to serve as an agitator in a police dog and/or sport dog training environment under the direct supervision of a canine training instructor.

**CJA 083B****Arrest and Control Techniques (ACT) Instructor Training**

Unit(s): 1.5 Class Hours: 9.0 Lecture, 61.0-71.0 Lab total.

*Prerequisite: CJA 055B, CJA 055D, CJA 069B, CJA 099A with a minimum grade of C, or their equivalent with a grade of Pass.*

Course designed to prepare instructors and develop teaching skills focusing on arrest and control technique expertise, application, and assessment in a law enforcement instructional environment. (Pass/No Pass Only)

**CJA 083C****First Aid/ Cardio-Pulmonary Resuscitation (CPR) Instructor Training**

Unit(s): 0.5 Class Hours: 1.0-2.0 Lecture, 22.0-38.0 Lab total.

This course prepares instructors and develops their teaching skills by focusing on the assessment and treatment of medical emergencies in a law enforcement instructional environment. (Pass/No Pass Only)

**CJA 088****Campus Law Enforcement Update**

Unit(s): 2.0 Class Hours: 32.0 Lecture, 8.0 Lab total.

*Prerequisite: CJA 099A or, POST certified basic law enforcement academy or equivalent as determined by the Associate Dean of Criminal Justice Academies and consistent with POST and/or STC accreditation standards. Fundamental terms, concepts, laws and procedures basic to California law enforcement will not be taught or explained. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.*

This course is designed to expand the knowledge of peace officers working a campus environment. The course will include a history of campus law enforcement, legal authority, laws and liability, responsibility in learning environment, campus conduct, emergency response tactics, and the discipline process as it relates to students.

**CJA 090****Academy Tactical Officer Training**

Unit(s): 0.5 Class Hours: 2.0 Lecture, 38.0 Lab total.

*Prerequisite: CJA 099A with a minimum grade of C or its equivalent and eligible to receive peace officer training as defined in Government Code Section 1031.*

This course is designed to prepare students to serve as tactical officers in a California Peace Officers Standards and Training (CA POST) accredited police academy training environment. (Pass/No Pass Only)

**CJA 098-00****Topic Course**

Unit(s): 0.1-2.0 Class Hours: 0.0-40.0 Lecture, 0.0-40.0 Lab total.

Varies with topic.

**CJA 099****OCSA Basic Pre-Academy**

Unit(s): 2.5 Class Hours: 12.5 Lecture, 107.5 Lab total.

*Prerequisite: Students sponsored by California law enforcement agencies must successfully complete required college screening procedures including interview, medical evaluation, and DOJ Livescan. Self-sponsored students must meet all prerequisites before entering the course, and will be responsible for providing their required uniforms and equipment. Students must sign information sharing, student testing, and weapons handling agreements before entering the course. Violations of these agreements may result in immediate removal from the course.*

The course is designed to familiarize students with the duties and responsibilities associated with attending a basic police academy. Course instruction will include Drill and Ceremony, Introduction to Report Writing, Academy Protocol, Physical Training, and Program Overview.

**CJA 099A****Basic Police Academy**

Unit(s): 29.5-31.5 Class Hours: 311.0-321.0 Lecture, 673.0-739.0 Lab total.

*Prerequisite: CJA 010; CJA 026A; CJA 099 with a minimum grade of C. Students sponsored by California law enforcement agencies must meet P.O.S.T. hiring requirements. Self-sponsored students must successfully complete CJA 010, CJA 026A, CJA 099 and required college screening procedures including interview, written test, medical evaluation, psychological evaluation, and DOJ livescan. Self-sponsored students' applications will be evaluated and screened by Criminal Justice Academies Director and Academy Fitness Instructor to assure students are sufficiently prepared. Self-sponsored students must meet all required prerequisites before entering or continuing the course.*

Student will receive instruction in all areas of criminal justice, as required by California Peace Officers Standards and Training (CA POST), for entry-level law enforcement officers. This course is offered in partnership with the Orange County Sheriff's Department.

**CJA 099B****Level 3 Modular Police Academy**

Unit(s): 6.0-6.5 Class Hours: 71.5 Lecture, 96.5-112.5 Lab total.

*Prerequisite: Students sponsored by California law enforcement agencies must meet Peace Officers Standards and Training (POST) hiring requirements. Self-sponsored students must successfully complete required college screening procedures including interview, medical evaluation, and DOJ Livescan. Self-sponsored students must meet all prerequisites before entering the course, and will be responsible for providing their own required uniforms, equipment, and ammunition. All students must sign information sharing, student testing, and weapons handling agreements before entering the course. Violations of these agreements may result in immediate removal from the course.*

The first module of the POST Certified Modular Police Academy Program.

**CJA 099C****Level 2 Modular Police Academy**

Unit(s): 6.5-7.0 Class Hours: 61.5 Lecture, 150.5-166.5 Lab total.

*Prerequisite: CJA 099B with a minimum grade of C with a minimum grade of C, or Commission on Peace Officers' Standards and Training (POST) Certified Module 2 Police Academy Program or equivalent as determined by the Assistant Dean of Criminal Justice Academies. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency. Students sponsored by California law enforcement agencies must meet the POST hiring requirements. Self-sponsored recruits must successfully complete the required college screening procedures including interview, medical evaluation, and DOJ Livescan. Self-sponsored students must meet all prerequisites before entering the course, and will be responsible for providing their own required uniforms, equipment, and ammunition. All students must sign information sharing, student testing, and weapons handling agreements before entering the course. Violations of these agreements may result in immediate removal from the course.*

The second module of the California POST Modular Police Academy Program.

**CJA 099D****Level 1 Modular Police Academy**

Unit(s): 14.0-14.5 Class Hours: 124.0 Lecture, 314.0-334.0 Lab total.

*Prerequisite: CJA 099C with a minimum grade of C, or Commission on Peace Officers' Standards and Training (POST) Certified Module 2 Police Academy Program or equivalent as determined by the Assistant Dean of Criminal Justice Academies. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency. Students sponsored by California law enforcement agencies must meet the POST hiring requirements. Self-sponsored recruits must successfully complete the required college screening procedures including interview, medical evaluation, and DOJ Livescan. Self-sponsored students must meet all prerequisites before entering the course, and will be responsible for providing their own required uniforms, equipment, and ammunition. All students must sign information sharing, student testing, and weapons handling agreements before entering the course. Violations of these agreements may result in immediate removal from the course.*

The third and final module of the California POST Certified Modular Police Academy Program.

**CULINARY ARTS (CULN)****CULN 100****Introduction to Culinary Arts and Hospitality**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Practices and procedures for individuals interested in a career in the Culinary Arts and Hospitality or allied fields. Includes field trips to industry sites and interaction with professionals in the field. CSU

**CULN 110 (C-ID HOSP 110)****Food Safety and Sanitation**

*Formerly: Food Sanitation and Safety*

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Sanitation practices affecting individual operations. Prevention and control of foodborne illnesses through flow of food and HACCP management. Same as Nutrition 110). CSU

**CULN 120****Restaurant Management and Culinary**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

*Prerequisite: CULN 110 with a minimum grade of C.*

Students will explore, learn, practice, and apply the management and culinary skills needed for a career in the Restaurant and Food Service Industry. Laboratory work will include different cooking techniques and traditional food preparations for different sectors in the Industry. CSU

**CULN 130****Advanced Culinary and Restaurant Management**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite: CULN 110 with a minimum grade of C.*

Advanced food production techniques to be utilized in planning, costing, and implementing a wide variety of catered functions. CSU

**CULN 140****Introduction to Baking & Pastry**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite: CULN 110 or NUTR 110 with a minimum grade of C.*

This course covers fundamental baking skills for students who intend to specialize in baking and pastry making for commercial production. Production of yeast and quick breads, cakes, cookies, pies, and pastries, as well as decorating and icings are undertaken. Gourmet baked items and pastries are produced in a time-restricted quality-minded setting. This course is for students pursuing a career in culinary arts/culinary management, and will prepare students for entry level baking position in the food industry as a baker or pastry chef. CSU

**CULN 150****Principles of Pantry**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

*Prerequisite: NUTR 110 or CULN 110 with a minimum grade of C.*

Introduction to the basic skills needed for a restaurant pantry station. The theory and practical skills required to produce quality salads, sandwiches, and cold sauce emphasized. CSU

**CULN 160****Principles of Beverage Service**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Introduction to the basic skills needed for service of alcoholic beverages. The theory and practical skills required to identify and recommend different types of alcoholic and non-alcoholic beverages served in the food service/hospitality industry. Field trips may be required. CSU

**CULN 190****Food & Beverage Production Management**

Unit(s): 2.0 Class Hours: 108.0 Lab total.

*Prerequisite: CULN 110 or NUTR 110 with a minimum grade of C.*

The course provides students with hands-on experience and training in customer service, catering special events, dining room service, buffet presentation, food production, management, and job readiness skills. CSU

**CULN 200****Business Practices for Culinary Arts Professionals**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course offers insight into the various aspects of supervision in the hospitality industry. Supervisory roles, responsibilities, and essential managerial skills shall be discussed. The goal of the course is to equip students with the necessary authoritative and decision-making skills to be used in the workplace. CSU

**CULN 299****Cooperative Work Experience Education**

Unit(s): 1.0-4.0 Class Hours: 60.0-300.0 Lab total.

*Prerequisite: Six units completed in Culinary Arts or Nutrition & Food degree/certificate courses.*

This work experience course of supervised employment assists students to acquire desirable work habits, attitudes and skills in culinary arts. A student can earn 1 to 4 units per semester, up to a maximum of 16 units total. Additionally, students must work 75 paid hours or 60 non-paid hours per unit earned. Student repetition is allowed per Title 5, Section 55253. CSU

**DANCE (DNCE)****DNCE 009A****Dance Laboratory I**

Unit(s): 0.5 Class Hours: 27.0 Lab total.

*Prerequisite: By audition only.*

Studio rehearsal time, emphasizing progressive development in the creation of concert performances and/or choreographic projects. Beginning level assignments are geared toward attainment of skills relating to concert performance and/or choreographic material. Material changes every semester. 24 hour earns 0.5 unit. Requires audition or instructor approval prior to enrollment. A combination of DNCE 009A, DNCE 009B, DNCE 009C, and DNCE 009D may be taken a maximum of four enrollments.

**DNCE 009B****Dance Laboratory II**

Unit(s): 0.5 Class Hours: 27.0 Lab total.

*Prerequisite: DNCE 009A with a minimum grade of C.*

Studio rehearsal time, emphasizing progressive development in the creation of concert performances and/or choreographic projects. Intermediate level assignments are geared toward attainment of skills relating to concert performance and/or choreographic material. Material changes every semester. 24 hour earns 0.5 unit. Requires audition. A combination of DNCE 009A, DNCE 009B, DNCE 009C, and DNCE 009D may be taken a maximum of four enrollments.

**DNCE 009C****Dance Laboratory III**

Unit(s): 0.5 Class Hours: 27.0 Lab total.

*Prerequisite: DNCE 009B with a minimum grade of C.*

Studio rehearsal time, emphasizing progressive development in the creation of concert performances and/or choreographic projects. Intermediate -advanced level assignments are geared toward attainment of skills relating to concert performance and/or choreographic material. Material changes every semester. 24 hour earns 0.5 unit. A combination of DNCE 009A, DNCE 009B, DNCE 009C, and DNCE 009D may be taken a maximum of four enrollments.

**DNCE 009D****Dance Laboratory IV**

Unit(s): 0.5 Class Hours: 27.0 Lab total.

*Prerequisite: DNCE 009C with a minimum grade of C.*

Studio rehearsal time, emphasizing progressive development in the creation of concert performances and/or choreographic projects. Advanced level assignments are geared toward attainment of skills relating to concert performance and/or choreographic material. Material changes every semester. 24 hour earns 0.5 unit. A combination of DNCE 009A, DNCE 009B, DNCE 009C, and DNCE 009D may be taken a maximum of four enrollments.

**DNCE 100****Dance History and Appreciation**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The development of dance in Western Europe and the U.S. from ancient times to the present. Explores dance as an emerging art form from the Renaissance to the 21st Century. Emphasizes the contemporary dance heritage of the United States. CSU/UC

## **DNCE 100H**

### **Honors Dance History and Appreciation**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

An enriched honors course featuring intensive study of theatrical dance development in Western Europe and the U.S. from ancient times to the present. Utilizes writing, reading, critical thinking skills, required research, and student-initiated discussions in a seminar setting to explore dance history from cultural and aesthetic points of view. CSU/UC

## **DNCE 102**

### **Introduction to Dance Forms**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

An introduction to historical and contemporary dance forms through lecture and activity. Experience in ballet, modern, jazz, hip-hop, improvisation, folk, ethnic and/or ritual dance styles. Recommended for future teachers. CSU/UC

## **DNCE 105**

### **World Dance and Cultures**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Dance around the world is studied in its cultural/social context. Emphasis on the different ways dance is used to express ideas about religion, cultural identity, myths, and social ideals. Includes cultures from Africa, Asia, Europe, India, Latin America, Middle East, and North America, plus a focus on Southern California. CSU/UC

## **DNCE 106A**

### **Introduction to Modern Dance**

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

An introduction to modern dance emphasizing movement technique, dance vocabulary, and creative individual expression. Includes an introduction to choreographic principles and the historical/cultural context of American modern dance. For the student with little or no dance experience. A combination of DNCE 106A, DNCE 106B, DNCE 206A, DNCE 206B, DNCE 209, and DNCE 210 may be taken a maximum of four enrollments. CSU/UC

## **DNCE 106B**

### **Introduction to Modern Dance**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

An introduction to modern dance emphasizing movement technique, dance vocabulary, and creative individual expression. Includes an introduction to choreographic principles and cultural context of American modern dance. Dance 106B is a refinement of skills learned in Dance 106A. A combination of DNCE 106A, DNCE 106B, DNCE 206A, DNCE 206B, DNCE 209, and DNCE 210 may be taken a maximum of four enrollments. CSU/UC

## **DNCE 107**

### **Dance Concert Performance**

Unit(s): 1.0 Class Hours: 9.0 Lecture, 45.0 Lab total.

*Prerequisite: Audition.*

Formal dance concert performance experience for dance students. Includes both rehearsal process and a minimum of three on-stage public performances. A combination of may be taken a maximum of four enrollments. A combination of DNCE 107 may be taken a maximum of four enrollments. (Pass/ No Pass Only) CSU/UC

## **DNCE 108A**

### **Introduction to Ballet**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Introduction to basic ballet emphasizing movement technique, dance vocabulary, and creative individual expression. Student learns basic ballet-barre exercises, center work, and short dance works. Includes an introduction to choreographic principles and cultural context of ballet. Prepares the student for Dance 108B. A combination of DNCE 108A, DNCE 108B, DNCE 201A, DNCE 201B, DNCE 213, and DNCE 214 may be taken a maximum of four enrollments. CSU/UC

## **DNCE 108B**

### **Introduction to Ballet**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Continuation of instruction in basic ballet technique, dance vocabulary, and creative individual expression. Student learns ballet- barre exercises, center work, and short dance works. Includes choreographic principles and cultural context of ballet. A combination of DNCE 108A, DNCE 108B, DNCE 201A, DNCE 201B, DNCE 213, and DNCE 214 may be taken a maximum of four enrollments. CSU/UC

## **DNCE 109A**

### **Pilates Mat I**

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

An introduction to the mat exercises developed by Joseph Pilates to build strength, stability, coordination, and control in the core muscles of the body. Applicable to dance and general body conditioning. A combination of DNCE 109A, DNCE 109B, and DNCE 109C may be taken a maximum of four enrollments. CSU/UC

## **DNCE 109B**

### **Pilates Mat II**

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Continued refinement of skills learned in Pilates Mat I with an emphasis on building strength, stability, coordination, and control in the core muscles of the body. Applicable to dance and general body conditioning. A combination of DNCE 109A, DNCE 109B, and DNCE 109C may be taken a maximum of four enrollments. CSU/UC

## **DNCE 109C**

### **Pilates Mat III**

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Intermediate level course in the mat exercises developed by Joseph Pilates to build strength, stability, coordination, and control in the core muscles of the body. Applicable to dance and general body conditioning. A combination of DNCE 109A, DNCE 109B, and DNCE 109C may be taken a maximum of four enrollments. CSU/UC

## **DNCE 110**

### **Beginning Mexican Folk Dance**

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Introduces techniques, forms, and regional/ historical backgrounds of dances from various regions of Mexico. Students will perform at least 3 different traditional dances. A combination of DNCE 110, DNCE 111, and DNCE 117 may be taken a maximum of four enrollments. CSU/UC

**DNCE 111****Intermediate Mexican Folk Dance**

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Recommended Preparation: DNCE 110 with a minimum grade of C. Continued study of techniques, forms, and regional/historical backgrounds of dances from various regions of Mexico. Students will perform at least 3 different and more complex traditional dances. A combination of DNCE 110, DNCE 111, and DNCE 117 may be taken a maximum of four enrollments. CSU/UC

**DNCE 112****Ethnic Dance**

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Introduction to the dance movement and techniques of selected ethnic groups from around the world, with emphasis on skill development and cultural/historical context. Focus chosen from African dance, Asian court or folk dance, dance forms from India, European folk dance, or Polynesian dance. No experience necessary. CSU/UC

**DNCE 113A****Flamenco Dance I**

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Introduction to dance movements, techniques, and terminology of Flamenco dance, music, rhythms, and song. Emphasis on dance skills and cultural relationship between Spain and the Gypsies. Prepares the student for Dance 113B. A combination of DNCE 113A and DNCE 113B may be taken a maximum of four enrollments. CSU/UC

**DNCE 113B****Flamenco Dance II**

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total

Recommended Preparation: DNCE 113A with a minimum grade of C. Continued study of Flamenco culture through dance, music, and song, with emphasis on particular rhythms. Students will explore the dynamics and structure of these rhythms and learn a choreographed dance. A combination of DNCE 113A and DNCE 113B may be taken a maximum of four enrollments. CSU/UC

**DNCE 117****Introduction to Middle Eastern Dance**

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Introduction to Middle Eastern Dance, including belly dance and folkdance forms. Emphasis is on movement technique, vocabulary, and creative expression. Also explores the fusion of Western and Middle Eastern dance forms. No experience necessary. A combination of DNCE 110, DNCE 111, and DNCE 117 may be taken a maximum of four enrollments. CSU/UC

**DNCE 118****Introduction to Caribbean and Latin Dance Styles**

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

An introduction to Caribbean and Latin social dance styles, including musicality, partnering, and patterns. Emphasis is on movement technique, vocabulary and creative expression. Historical and contemporary forms such as Salsa, Merengue, Rhumba, Cumbia and Tango are studied. A combination of DNCE 118, DNCE 123, and DNCE 124 may be taken a maximum of four enrollments. CSU/UC

**DNCE 119A****Introduction to Jazz Dance**

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Introduction to jazz dance technique emphasizing elementary movement technique, vocabulary, and creative expression. Includes an introduction to composition and cultural context of jazz dance. For students with little or no dance experience. A combination of DNCE 119A, DNCE 119B, DNCE 219A, DNCE 219B, DNCE 220, and DNCE 221 may be taken a maximum of four enrollments. CSU/UC

**DNCE 119B****Introduction to Jazz Dance**

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

A refinement of basic jazz dance, emphasizing movement technique, vocabulary, and creative expression. Includes composition, the cultural context of jazz dance, and contemporary jazz dance forms. Movement repertoire differs from 119A. A combination of DNCE 119A, DNCE 119B, DNCE 219A, DNCE 219B, DNCE 220, and DNCE 221 may be taken a maximum of four enrollments. CSU/UC

**DNCE 120A****Introduction to Hip-Hop Dance**

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

An introduction to Hip-Hop dance emphasizing movement technique, dance vocabulary and creative expression. Includes learning routines and the history and culture of Hip-Hop dance. No prior experience necessary. A combination of DNCE 120A, DNCE 120B, DNCE 250A and DNCE 250B and DNCE 251 may be taken a maximum of four enrollments. CSU/UC

**DNCE 120B****Intermediate Hip-Hop Dance**

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

A continuation of the study of Hip-Hop dance emphasizing movement technique, dance vocabulary and creative expression. Includes more complicated movements, advanced dance combinations and an overview of the historical and cultural context of Hip-Hop. Beginning Hip-Hop recommended. A combination of DNCE 120A, DNCE 120B, DNCE 250A and DNCE 250B and DNCE 251 may be taken a maximum of four enrollments. CSU/UC

**DNCE 122****Commercial Contemporary Dance**

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Instruction for the advanced dance student in commercial contemporary dance including the technical steps, styles, audition techniques, and performance skills necessary to be a successful dancer in commercial settings such as industrials, cruise ships, music videos, etc. A combination of DNCE 122 may be taken a maximum of four enrollments. CSU/UC

**DNCE 123****Introduction to Salsa Dance**

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

An introduction to Salsa dance, including musicality, partnering, and patterns. Emphasis is on movement technique, dance vocabulary, and creative expression. Historical and contemporary forms are studied. A combination of DNCE 118, DNCE 123, and DNCE 124 may be taken a maximum of four enrollments. CSU/UC

**DNCE 124****Intermediate Salsa Dance**

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Continued study in Salsa dance, including musicality, partnering, and patterns. Emphasis is on movement technique, vocabulary, and expression. Includes more complicated movements, complex patterns, and advanced dance combinations. Introduction to Salsa recommended. A combination of DNCE 118, DNCE 123, and DNCE 124 may be taken a maximum of four enrollments. CSU/UC

**DNCE 130****Dance Improvisation**

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

An introduction to structured dance improvisation, emphasizing movement invention, creative problem solving, group dynamics, and contact improvisation. Prior completion of dance technique course highly recommended. A combination of DNCE 130, DNCE 202A, and DNCE 202B may be taken a maximum of four enrollments. CSU/UC

**DNCE 140****Dance Repertory Workshop**

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Intensive course which emphasizes learning selected repertory. Students learn one or more complete choreographic works of concert quality with instruction in specific performance styles, culminating in a public performance. CSU/UC

**DNCE 180****Professional Studio Practices**

Unit(s): 2.0 Class Hours: 36.0 Lecture, 36.0 Lab total.

Learn the procedures, management, and expectations of working in private dance studios. Applicable for both the dance educator and the professional dancer. CSU

**DNCE 201A****Ballet I**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Introduction to ballet technique and terminology, including basic barre work, center work, and combinations en diagonale. Includes basic alignment, use of turnout, coordination, and ballet terminology. Dance 201A prepares the student for Dance 201B. A combination of DNCE 108A, DNCE 108B, DNCE 201A, DNCE 201B, DNCE 213, and DNCE 214 may be taken a maximum of four enrollments. CSU/UC

**DNCE 201B****Ballet II**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Recommended Preparation: DNCE 201A with a minimum grade of C. Continuation of beginning ballet technique and terminology, including barre work, center work, and combinations en diagonale. Includes basic alignment, use of turnout, coordination, and ballet terminology. Dance 201B utilizes additional combination work and prepares the student for Dance 213. A combination of DNCE 108A, DNCE 108B, DNCE 201A, DNCE 201B, DNCE 213, and DNCE 214 may be taken a maximum of four enrollments. CSU/UC

**DNCE 202A****Choreography**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Recommended Preparation: Any course in an Intro to Dance or Beginning Level Dance Technique recommended with a minimum grade of C.

A class for the general student interested in dance that defines and explores the elements involved in creating a dance. Students will develop basic choreographic skills and apply those skills to express their ideas through dance movement. Compositions created by students will be performed in the studio. Open to non-majors. A combination of DNCE 130, DNCE 202A, and DNCE 202B may be taken a maximum of four enrollments. CSU/UC

**DNCE 202B****Choreography for Dance Majors**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

A composition class for dance majors which defines and explores the elements involved in creating a dance. Students will develop choreographic skills emphasizing individual expression of ideas through dance movement. Advanced level assignments of solo and group compositions are created by dance major students and performed in the dance studio. A combination of DNCE 130, DNCE 202A, and DNCE 202B may be taken a maximum of four enrollments. CSU/UC

**DNCE 204A****Dance Production I**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

*Prerequisite: By audition only.*

Concert dance production experience culminating in public performances in Phillips Hall Theatre as part of the Spring Student/Faculty Dance Concert. Includes production basics, with an emphasis on performance techniques and working with faculty/student choreographers to create original dances. By audition only prior to enrollment. A combination of DNCE 204A, DNCE 204B, DNCE 204C, and DNCE 204D may be taken a maximum of four enrollments. CSU/UC

**DNCE 204B****Dance Production II**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

*Prerequisite: DNCE 202B or by audition only.*

Concert dance production experience culminating in public performances in Phillips Hall Theatre as part of the Spring Student/Faculty Dance Concert. Includes production basics, with an emphasis on choreography to create original dances. By audition only prior to enrollment. A combination of DNCE 204A, DNCE 204B, DNCE 204C, and DNCE 204D may be taken a maximum of four enrollments. CSU/UC

**DNCE 204C****Dance Production III**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

*Prerequisite: By audition only.*

Continued study and refinement of concert dance production experience culminating in public performances in Phillips Hall Theater as part of the Spring Student/Faculty Dance Concert. Includes production elements, with an emphasis on performance techniques and working with student and/or faculty choreographers to create original dances. By audition only prior to enrollment. A combination of DNCE 204A, DNCE 204B, DNCE 204C, and DNCE 204D may be taken a maximum of four enrollments. CSU/UC

**DNCE 204D****Dance Production IV**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0

*Prerequisite: By audition only.*

Continued refinement and development of concert dance production experience culminating in public performances in Phillips Hall Theater as part of the Spring Student/ Faculty Dance Concert. Includes production elements with an emphasis on choreography to create original dances. By audition only prior to enrollment. A combination of DNCE 204A, DNCE 204B, DNCE 204C, and DNCE 204D may be taken a maximum of four enrollments. CSU/UC

**DNCE 205A****Dance Touring Ensemble I**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

*Prerequisite: By audition only.*

Pre-professional ensemble to provide performance experience in various settings such as high school lecture presentations, dance festivals, or off-campus performing venues. For advanced students. Repertoire and casting vary each semester. Requires audition prior to enrollment. A combination of DNCE 205A, DNCE 205B, DNCE 205C, and DNCE 205D may be taken a maximum of four enrollments. CSU/UC

**DNCE 205B****Dance Touring Ensemble II**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

*Prerequisite: By audition only.*

Pre-professional ensemble to provide continued performance experience in various settings such as high school lecture presentations, dance festivals, or off-campus performing venues. For advanced students. Repertoire and casting vary each semester. Requires audition prior to enrollment. A combination of DNCE 205A, DNCE 205B, DNCE 205C, and DNCE 205D may be taken a maximum of four enrollments. CSU/UC

**DNCE 205C****Dance Touring Ensemble III**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

*Prerequisite: By audition only.*

Pre-professional ensemble to provide performance and teaching experience in various settings such as high school lecture-presentations, dance festivals, or off-campus performing venues. Emphasis on rehearsal directing, co-teaching, and leadership roles for advanced students. Repertoire and casting vary each semester. Requires audition prior to enrollment. A combination of DNCE 205A, DNCE 205B, DNCE 205C, and DNCE 205D may be taken a maximum of four enrollments. CSU/UC

**DNCE 205D****Dance Touring Ensemble IV**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

*Prerequisite: By audition only.*

Pre-professional ensemble to provide continued performance and teaching experience in various settings such as high school lecture-presentations, dance festivals, or off-campus performance venues. Emphasis on continued experiences in rehearsal directing, co-teaching, and leadership roles for advanced students. Repertoire and casting vary each semester. Requires audition prior to enrollment. A combination of DNCE 205A, DNCE 205B, DNCE 205C, and DNCE 205D may be taken a maximum of four enrollments. CSU/UC

**DNCE 206A****Modern Dance I**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

A beginning level modern dance class emphasizing movement technique, dance vocabulary, and creative individual expression. Includes an introduction to choreographic principles and cultural context of modern dance. Students learn modern dance exercises and short dance combinations. Prepares the student for Dance 206B. A combination of DNCE 106A, DNCE 106B, DNCE 206A, DNCE 206B, DNCE 209, and DNCE 210 may be taken a maximum of four enrollments. CSU/UC

**DNCE 206B****Modern Dance II**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0

Recommended Preparation: DNCE 206A with a minimum grade of C.

Continued study in modern dance emphasizing movement technique, dance vocabulary, and creative individual expression. Includes an introduction to somatic approaches to dance training to support body connectivity. Dance 206B is a continuation and refinement of learning longer dance combinations at the beginning-intermediate level. A combination of DNCE 106A, DNCE 106B, DNCE 206A, DNCE 206B, DNCE 209, and DNCE 210 may be taken a maximum of four enrollments. CSU/UC

**DNCE 209****Modern Dance III**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Recommended Preparation: DNCE 206A; DNCE 206B with a minimum grade of C.

Provides the continuing modern dance student opportunity to concentrate on more advanced steps and development of technical skills and somatic approaches to dance at the intermediate level. Emphasizes combinations, choreography, and performance style. Dance 206A/B recommended. A combination of DNCE 106A, DNCE 106B, DNCE 206A, DNCE 206B, DNCE 209, and DNCE 210 may be taken a maximum of four enrollments. CSU/UC

**DNCE 210****Modern Dance IV**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Recommended Preparation: DNCE 209 with a minimum grade of C.

Continuing study of modern dance technique including more complicated combinations and advanced material. Emphasizes somatic approaches to dance training, performance expression, and comparison of modern dance styles. Dance 209 recommended. A combination of DNCE 106A, DNCE 106B, DNCE 206A, DNCE 206B, DNCE 209, and DNCE 210 may be taken a maximum of four enrollments. CSU/UC

**DNCE 213****Ballet III**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Recommended Preparation: DNCE 201B with a minimum grade of C.

Study of ballet technique and terminology on the intermediate level-advanced. Course includes center adagio, jumps with beats, pirouettes, and movement combinations. Intermediate-advanced variations are also learned and performed in class. A combination of DNCE 108A, DNCE 108B, DNCE 201A, DNCE 201B, DNCE 213, and DNCE 214 may be taken a maximum of four enrollments. CSU/UC



**DNCE 214****Ballet IV**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Recommended Preparation: DNCE 213 with a minimum grade of C.

Continuing study of technique and terminology at the intermediate-advanced level. Emphasizes longer, more intricate movement combinations and development of balletic style. Stresses expression and technique at intermediate-advanced level. Includes ballet history and comparisons of various ballet styles. A combination of DNCE 108A, DNCE 108B, DNCE 201A, DNCE 201B, DNCE 213, and DNCE 214 may be taken a maximum of four enrollments. CSU/UC

**DNCE 219A****Jazz Dance I**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Introduction to jazz dance emphasizing movement technique, vocabulary, and creative expression. Includes an introduction to choreographic principles and cultural context of jazz. Historical and contemporary forms are studied. Videos, concerts, and master classes enrich the course. A combination of DNCE 119A, DNCE 119B, DNCE 219A, DNCE 219B, DNCE 220, and DNCE 221 may be taken a maximum of four enrollments. CSU/UC

**DNCE 219B****Jazz Dance II**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Recommended Preparation: DNCE 219A with a minimum grade of C.

Continued study in beginning jazz dance emphasizing movement technique, vocabulary and creative expression. Includes an introduction to choreographic principles and cultural context of jazz. Historical and contemporary forms are studied. A combination of DNCE 119A, DNCE 119B, DNCE 219A, DNCE 219B, DNCE 220, and DNCE 221 may be taken a maximum of four enrollments. CSU/UC

**DNCE 220****Jazz Dance III**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Recommended Preparation: DNCE 219B with a minimum grade of C.

Instruction for the continuing jazz dance student in intermediate jazz steps and further development of technical skills. Emphasis will be placed on combinations, choreography, performance style, and cultural context of jazz. Historical and contemporary forms are studied. Dance 219B recommended. A combination of DNCE 119A, DNCE 119B, DNCE 219A, DNCE 219B, DNCE 220, and DNCE 221 may be taken a maximum of four enrollments. CSU/UC

**DNCE 221****Jazz Dance IV**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Recommended Preparation: DNCE 220 with a minimum grade of C.

Continuing study of jazz dance concentrating on advanced combinations with emphasis on movement technique, vocabulary, and performance style. Includes study of choreography, cultural context of jazz, and comparisons of historical and contemporary jazz styles. A combination of DNCE 119A, DNCE 119B, DNCE 219A, DNCE 219B, DNCE 220, and DNCE 221 may be taken a maximum of four enrollments. CSU/UC

**DNCE 232****Partnering**

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Recommended Preparation: DNCE 201A; DNCE 206A; DNCE 219A with a minimum grade of C.

The study of partnering in modern, jazz, and classical ballet choreography. Includes duets, groups, and choreography involving any body contact or shifting of weight from one individual to another. A combination of may be taken a maximum of four enrollments. CSU/UC

**DNCE 240A****Repertory I**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

*Prerequisite: By audition only.*

Students develop rehearsal and performance skills through learning a repertoire of dances. Includes preparation for public concerts and performances at different venues. Dances vary each semester. Requires audition prior to enrollment. A combination of DNCE 204A, DNCE 204B, DNCE 204C, and DNCE 204D may be taken a maximum of four enrollments. CSU/UC

**DNCE 240B****Repertory II**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

*Prerequisite: By audition only.*

Continued refinement of rehearsal and performance skills through learning a more difficult repertoire of dances. Includes preparation for public concerts and performances at different venues. Dances vary each semester. Requires audition prior to enrollment. A combination of DNCE 204A, DNCE 204B, DNCE 204C, and DNCE 204D may be taken a maximum of four enrollments. CSU/UC

**DNCE 240C****Repertory III**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

*Prerequisite: By audition only.*

Students learn intermediate-advanced performance skills through small group, duet and/or solo repertoire. Includes preparation for public concerts and performances at different venues. Dances vary each semester. Requires audition prior to enrollment. A combination of DNCE 204A, DNCE 204B, DNCE 204C, and DNCE 204D may be taken a maximum of four enrollments. CSU/UC

**DNCE 240D****Repertory IV**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

*Prerequisite: By audition only.*

Continued study in intermediate-advanced performance skills through small group, duet and/or solo repertoire. Includes preparation for public concerts and performances at different venues. Dances vary each semester. Requires audition prior to enrollment. A combination of DNCE 204A, DNCE 204B, DNCE 204C, and DNCE 204D may be taken a maximum of four enrollments. CSU/UC

**DNCE 250A****Hip-Hop Dance I**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Introduction to hip-hop dance emphasizing movement technique, vocabulary, and creative expression. Includes an introduction to choreographic principles, improvisation, and cultural context of hip-hop. A combination of DNCE 120A, DNCE 120B, DNCE 250A and DNCE 250B and DNCE 251 may be taken a maximum of four enrollments. CSU/UC

**DNCE 250B****Hip-Hop Dance II**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Recommended Preparation: DNCE 250A with a minimum grade of C.

Continued study in hip-hop dance emphasizing movement technique, vocabulary, and creative expression. Includes improvisation, more difficult combinations, student compositions, and the cultural context of hip-hop. Movement repertoire differs from 250A. A combination of DNCE 120A, DNCE 120B, DNCE 250A and DNCE 250B and DNCE 251 may be taken a maximum of four enrollments. CSU/UC

**DNCE 251****Hip-Hop Dance III**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Recommended Preparation: DNCE 250B with a minimum grade of C.

Instruction for the continuing dance student in intermediate level hip-hop dance technique and further development of performance skills. Emphasis will be placed on combinations, choreography, performance style, and cultural context of hip-hop. Dance 250B recommended A combination of DNCE 250A and DNCE 250B and DNCE 251 may be taken a maximum of four enrollments. CSU/UC

**DNCE 260****Somatic Practices in Dance**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

This course uses the principles of Bartenieff Fundamentals to develop efficient movement patterning within the body and to encourage and support personal expression, meaning-making, and an integration of the body and mind. Includes core concepts of the Laban Movement Analysis System which embodies all movement possibilities through Body, Effort, Shape, and Space. Knowledge in Anatomy/ Physiology or Kinesiology, and/or training in intermediate/advanced dance techniques are highly recommended. A combination of DNCE 260, DNCE 261, DNCE 262 and DNCE 263 may be taken a maximum of four enrollments CSU/UC

**DNCE 261****Somatic Practices in Modern Dance**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

*Prerequisite: DNCE 260 with a minimum grade of C.*

Application of somatic practices learned in Dance 260 to intermediate/advanced level modern dance techniques. A combination of DNCE 260, DNCE 261, DNCE 262, and DNCE 263 may be taken a maximum of four enrollments. CSU/UC

**DNCE 262****Somatic Practices in Ballet**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

*Prerequisite: DNCE 260 with a minimum grade of C.*

Application of somatic practices learned in Dance 260 to intermediate/advanced level ballet techniques. A combination of DNCE 260, DNCE 261, DNCE 262, and DNCE 263 may be taken a maximum of four enrollments. (Pass/No Pass Only) CSU/UC

**DNCE 263****Somatic Practices in Jazz Dance**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

*Prerequisite: DNCE 260 with a minimum grade of C.*

Application of somatic practices learned in Dance 260 to intermediate/advanced level jazz dance techniques. A combination of DNCE 260 and DNCE 261 and DNCE 262 and DNCE 263 may be taken a maximum of four enrollments. CSU/UC

**DNCE 270****Dance Practicum**

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

*Prerequisite: DNCE 180 with a minimum grade of C.*

Directed study at selected locations providing workplace experience as performer, choreographer, production assistant, dance management intern, dance team assistant, dance studio assistant, dance teacher, or somatics teaching assistant. Before placement, skills are assessed to match abilities with project or job needs. CSU/UC

**DNCE 290****Choreography for the Camera**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite: Completion with a grade of C or better of TELV 140.*

Recommended Preparation: DNCE 202B.

An introduction to dance for the camera, utilizing both practical and theoretical concepts of choreography and video production as it pertains to filmmaking. Through dance film analysis, studio-based exercises, viewings, and discussions, specific approaches to translating, contextualizing, framing, and structuring movement in the cinematic format will be explored. Designed for the dancer with intermediate/advanced technical training and choreographic skills. CSU/UC

**DNCE 291****Dance Film Production**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite: DNCE 290 with a minimum grade of C.*

A capstone course, where students build upon skills and concepts developed in previous camera, editing, cinematography, and choreography for the camera courses. Students produce and direct dance film productions. CSU/UC

**Special Studies in Modern Dance**

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Recommended Preparation: DNCE 210 with a minimum grade of C.

An advanced level course offering individualized and accelerated instruction in modern dance techniques. A combination of DNCE 296, DNCE 297, and DNCE 298 may be taken a maximum of four enrollments. CSU/UC

**DNCE 297****Special Studies in Jazz Dance**

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Recommended Preparation: DNCE 221 with a minimum grade of C.

An advanced level course offering individualized and accelerated instruction in jazz dance techniques. A combination of DNCE 296, DNCE 297, and DNCE 298 may be taken a maximum of four enrollments. CSU/UC

**DNCE 298****Special Studies in Ballet Dance**

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Recommended Preparation: DNCE 213; DNCE 214 with a minimum grade of C.

An advanced level course offering individualized and accelerated instruction in ballet dance techniques. A combination of DNCE 296, DNCE 297, and DNCE 298 may be taken a maximum of four enrollments. CSU/UC

**DIESEL (DSL)****DSL 101****Truck Preventative Maintenance**

Unit(s): 5.0 Class Hours: 72.0 Lecture, 72.0 Lab total.

This course provides the student with basic knowledge and skills in light, medium, and heavy duty truck maintenance. Safety, inspections, and hands-on practice are emphasized. CSU

**DSL 109****Medium/Heavy Duty Truck Brake Service**

*Formerly: Truck Chassis: Brake and Suspension Service*

Unit(s): 4.0 Class Hours: 36.0 Lecture, 108.0 Lab total.

This course covers the air and hydraulic brake systems used on modern medium and heavy duty trucks. Emphasis is placed upon utilizing the correct service and diagnostic procedures as required by the medium/heavy duty trucking industry. CSU

**DSL 110****Medium/Heavy Duty Manual Drive Train Service**

*Formerly: Truck Chassis: Drive Train Service*

Unit(s): 4.0 Class Hours: 36.0 Lecture, 108.0 Lab total.

This course covers the drive train systems used on medium and heavy duty trucks. Primary focus includes the manual transmission, clutch, and rear axle systems. Correct service procedures and diagnosis of these systems are emphasized as required on modern medium and heavy duty vehicles. CSU

**DSL 113****Allison Transmission Service**

Unit(s): 5.0 Class Hours: 72.0 Lecture, 72.0 Lab total.

A course of study designed to familiarize the student with the operation, service, overhaul, and troubleshooting of Allison automatic transmissions. Hands-on procedures are emphasized. Students must furnish approved safety glasses. CSU

**DSL 115****Introduction to Heavy Duty Mobile Hydraulics**

Unit(s): 5.0 Class Hours: 72.0 Lecture, 72.0 Lab total.

This course presents the operation and service procedures for hydraulic devices found on heavy-duty diesel equipment and trucks. Hands-on procedures are emphasized. Student must furnish approved safety glasses. CSU

**DSL 121****Mid-Range Diesel Engine Service**

Unit(s): 4.5 Class Hours: 54.0 Lecture, 90.0 Lab total.

Troubleshooting, service, and repair techniques for medium-duty diesel engines and fuel systems. Hands-on procedures and safety emphasized. Student must furnish approved safety glasses. CSU

**DSL 122****Electronics Fundamentals**

Unit(s): 5.0 Class Hours: 72.0 Lecture, 72.0 Lab total.

Introduction to the basic operating principles of electrical and electronic devices used in modern vehicles. Hands-on digital multimeter testing is highlighted. Safe and correct use of tools and equipment by students will be emphasized. Students must furnish approved safety glasses. (Same as Auto 122) CSU

**DSL 125****Medium/Heavy Duty Diesel Engine: Top End Service**

*Formerly: Heavy Duty Diesel Engine: Top End Service*

Unit(s): 4.0 Class Hours: 36.0 Lecture, 108.0 Lab total.

This course covers the diagnosis and service of heavy duty diesel engine top end systems. Emphasis is placed on hands-on practice of measurement, specifications, and proper procedures as required by industry. CSU

**DSL 126****Medium/Heavy Duty Diesel Engine: Bottom End Service**

*Formerly: Heavy Duty Diesel Engine: Bottom End Service*

Unit(s): 4.0 Class Hours: 36.0 Lecture, 108.0 Lab total.

This course covers the diagnosis and service of heavy duty diesel engine bottom end systems. Emphasis is placed on hands-on practice of measurement, specifications, and proper procedures as required by industry. CSU

**DSL 132****Diesel Fuel Injection Systems Service**

Unit(s): 5.0 Class Hours: 72.0 Lecture, 72.0 Lab total.

Theory, testing, and service of mechanical and electronic diesel fuel injection systems. Engine tune-up and troubleshooting techniques on current production medium and heavy-duty diesel engines. Hands-on procedures and safety are emphasized. Students must furnish approved safety glasses. CSU

**DSL 140****Diesel Electrical Systems**

Unit(s): 5.0 Class Hours: 72.0 Lecture, 72.0 Lab total.

Diagnosis, service, and repair procedures for starting, charging, lighting, instruments, and multiplex systems. Wiring schematics, safety, and hands-on procedures are emphasized. Students must furnish approved safety glasses. CSU

**DSL 160****Foundations of Mobile Air Conditioning and Refrigeration**

Unit(s): 5.0 Class Hours: 72.0 Lecture, 72.0 Lab total.

This course focuses on the mobile air conditioning and refrigeration systems used on modern vehicles. The systems found on automobiles, light and heavy duty trucks, transport refrigeration units, and transit buses are covered in this course with hands-on practice. Safe handling of refrigerant as well as preparation for the EPA 608 and 609 exams are covered. Student must furnish approved safety glasses. This course assists the student in preparation for A7, T7, and H7 ASE exams. (Same as Auto 160) CSU

**DSL 162****Air Conditioning and Heating**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Operation, testing, and servicing of truck cab air conditioning and heating systems as well as auxiliary power units. Safety, refrigerant recovery, special equipment, and controls will be covered. Applied air conditioning theory will also be covered. The EPA 609 certification is a segment of this course. This course helps prepare students for the T7 ASE certification exam. CSU

**DSL 165****Transport Refrigeration**

Unit(s): 5.0 Class Hours: 72.0 Lecture, 72.0 Lab total.

Theory and operation of truck and trailer refrigeration, electrical, and microprocessor control systems used on current production Carrier and Thermo King units. Service, repair, and troubleshooting procedures used in industry will be covered. Hands-on procedures and safety are emphasized. CSU

**DSL 202****Introduction to Coach Operations**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

*Prerequisite: The student must furnish approved safety equipment for the first meeting of the course. This equipment includes: Approved ANSI Standard Safety Glasses, Reflective Safety Vest, and Steel-Toed Shoes.*

This course provides students with an overview of the Certified Maintenance courses CERT1 through CERT10. Covers the ground rules and expectations of the program. Transit bus vehicle and shop safety training is highlighted. This safety training is required for participation in all CERT1 through CERT10 courses. Familiarizes students with the proper and safe use of hand tools and equipment. Includes an overview of the functions and procedures for preventive maintenance on current transit buses. CSU

**DSL 203****Transit Vehicle Electrical Systems**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

*Prerequisite: DSL 202 with a minimum grade of C.*

This course covers the functions and components of the electrical systems on current transit buses. Principles of electricity and safety are highlighted. An overview of troubleshooting techniques for both conventional and computer controlled buses are emphasized. This is the Certified Maintenance course CERT3. CSU

**DSL 204****Transit Vehicle Air Systems**

Unit(s): 0.5 Class Hours: 12.0 Lecture total.

*Prerequisite: DSL 202 with a minimum grade of C.*

This course provides students with functions and components of the air systems on current transit buses. Principles of air supply and safety are emphasized. An overview of troubleshooting techniques for both conventional and computer controlled buses is highlighted. This is the Certified Maintenance course CERT4. CSU

**DSL 205****Transit Vehicle Air Brake Systems**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

*Prerequisite: DSL 202 with a minimum grade of C.*

This course introduces the students to the operation of air brake systems found on current transit buses. Diagnosis, service, and repair procedures are emphasized. This is Certified Maintenance course CERT5. CSU

**DSL 206****Transit Vehicle Automatic Transmissions**

Unit(s): 1.5 Class Hours: 27.0 Lecture total.

*Prerequisite: DSL 202 with a minimum grade of C.*

This course introduces the students to the basic theory of operation of the automatic transmissions currently used on transit buses. Diagnostic and troubleshooting techniques, repair, and service will be emphasized. This is the Certified Maintenance course CERT6. CSU

**DSL 207****Transit Vehicle Engines**

Unit(s): 2.5 Class Hours: 47.3 Lecture total.

*Prerequisite: DSL 202 with a minimum grade of C.*

This course will introduce students to the basic theory of operation of current transit bus engines. Diagnostic and troubleshooting techniques, repair, and service will be emphasized. This is the Certified Maintenance course - CERT7. CSU

**DSL 208****Transit Vehicle Heating, Ventilation, Air Conditioning**

Unit(s): 1.5 Class Hours: 27.0 Lecture total.

*Prerequisite: DSL 202 with a minimum grade of C.*

This course introduces the student to the basic theory of operation of heating, ventilation, and air conditioning systems used on current transit buses. Service, maintenance, and troubleshooting will be emphasized. This is the Certified Maintenance course - CERT8. CSU

**DSL 209****Transit Vehicle Drive Train Suspension**

Unit(s): 1.0 Class Hours: 21.0 Lecture total.

*Prerequisite: DSL 202 with a minimum grade of C.*

This course introduces students to the basic theory of operation of transit bus drive train and suspension systems. Diagnostic techniques, repair, and service of current transit bus drive train and suspension systems will be emphasized. This is the Certified Maintenance course - CERT9. CSU

**DSL 210****Transit Vehicle Wheelchair Lifts**

Unit(s): 0.5 Class Hours: 12.0 Lecture total.

*Prerequisite: DSL 202 with a minimum grade of C.*

This course introduces the student to the basic theory of operation of wheelchair lifts and ramps currently used on transit buses. Service, maintenance, and troubleshooting will be emphasized. This is the Certified Maintenance course - CERT10. CSU

**DSL 287****Alternative Fuels**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course introduces the student to the various types of alternative fuels used in modern vehicles. Safety and operation are highlighted. Compressed Natural gas (CNG) is emphasized. LPG, LNG, Bio-diesel, Ethanol, and Hydrogen are also covered. This course prepares automotive as well as diesel students for industry. (Same as AUTO 287) CSU

## **DIGITAL MEDIA (DM)**

### **DM 100**

#### **Introduction to Electronic Media: TV, Radio, Film, and the Internet**

*Formerly: TELV 100: Introduction to Electronic Media: TV, Radio, Film, and the Internet*

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Survey of historical development, impact, and business practices of TV, radio, film, and the Internet. Emphasizes career opportunities and basic studio operations. CSU

### **DM 101**

#### **TV and Society: A Visual History**

*Formerly: TELV 101: TV and Society: A Visual History*

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Evolution and impact of TV programming as business and art form in American society. Development of a visual literacy and appreciation of television's various formats (sitcom, westerns, soaps, dramas, mini-series) through, lecture, video viewings, and guest speakers. CSU

### **DM 103**

#### **History of Film to 1945**

*Formerly: TELV 103: History of Film to 1945*

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A survey course exploring film as an art form and developing appreciation of historical, artistic, and technical advances from 1890s to 1945. CSU/UC

### **DM 104**

#### **History of Film from 1945 to Present**

*Formerly: TELV 104: History of Film from 1945 to Present*

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A lecture/visual aids course exploring film as an art form and developing appreciation of historical, artistic and technical advances. CSU/UC

### **DM 110**

#### **Introduction to Television Production**

*Formerly: TELV 110: Introduction to Television Production*

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Introduction to live, multi-camera production of television programs and operation of studio equipment. Includes overview of production theory, terminology and procedures, as well as hands-on training in use of cameras, audio, lighting, and control room apparatus for multi-camera productions. CSU/UC

### **DM 112**

#### **Introduction to Video Editing and Postproduction**

*Formerly: TELV 112, Introduction to Video Editing and Postproduction*

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Fundamental methods and techniques used to edit video for TV, film, web and multimedia. Hands-on training in basic operation of digital, non-linear editing system and software. CSU

### **DM 115A (C-ID FTVE 130)**

#### **Single-Camera Production and Editing**

*Formerly: TELV 115A, Single-Camera Production and Editing*

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Fundamental approaches and techniques utilized in single-camera production for television, film, web and multi-media. Hands-on training in operation of portable digital video and audio production equipment, as well as lighting. CSU

### **DM 115B**

#### **Advanced Single-Camera Production and Editing**

*Formerly: TELV- 115B: Advanced Single- Camera Production and Editing*

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Advanced development of knowledge and skills in single-camera production technology and practices. Emphasis on professional production standards and technical advancements in digital media camera production. CSU

### **DM 120**

#### **Beginning Screenwriting for Digital Media**

*Formerly: TELV 120: Beginning Screenwriting for TV, Film, the Web, Corporate Video and Digital Media*

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Designed to acquaint students with fundamental approaches to writing scripts for television, motion pictures, the web, corporate videos and digital media. Emphasis on the development of outlines, treatments, and scripts for short format programs or segments of feature-length shows. CSU

### **DM 121**

#### **Intermediate Screenwriting for Digital Media**

*Formerly: TELV 121: Intermediate Scriptwriting for TV, Film, the Web, Corporate Video and Digital Media*

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Explores professional requirements for scriptwriters and their relationship to the production, direction and development of scripts for TV, film, the web, corporate videos and digital media. Strengthens fundamental writing skills. Prior enrollment in DM 120 recommended. CSU

### **DM 123**

#### **Advanced Screenwriting for Digital Media**

*Formerly: TELV 123: Advanced Scriptwriting for TV, Film, the Web, Corporate Video and Digital Media*

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Explores professional requirements for writing screenplays for TV, film, and the web plus scripts for corporate videos and digital media. Advanced individual projects enhance student writing skills and body of work. Prior enrollment in Digital Media 121 recommended. CSU

### **DM 125**

#### **Cooperative Work Experience- Occupational**

*Formerly: TELV 125: Cooperative Work Experience Occupational*

Unit(s): 1.0-6.0 Class Hours: 60.0-450.0 Lab, 60.0-450.0 TBA total.

This work experience course of supervised employment is designed to assist students to acquire desirable work habits, attitudes and skills in a field related to the students' major so as to enable them to become productive employees. This course also provides students with career awareness for jobs. 75 hours of paid work or 60 hours of un-paid work equals one unit of course credit. Student repetition is allowed per Title 5, Section 55253. (Pass/No Pass Only) CSU

**DM 130****Broadcasting for News & Sports**

*Formerly: TELV 130: Principles of Broadcast News*

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Introduction to broadcast journalism for TV and digital platforms with emphasis on writing, editing, and technical production of media newscasts. Emphasizes both field and studio reporting. Prior or concurrent enrollment in Digital Media 110 recommended. CSU

**DM 140****Cinematography**

*Formerly: TELV 140: Cinematography*

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Concepts and practice of cinema-graphic, filming, and lighting techniques as applied to single-camera film and digital production. CSU/UC

**DM 142****Acting for the Camera**

*Formerly: TELV142: Acting for the Camera*

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Techniques and disciplines of acting as applied to film and television production. Opportunity to practice and perform with emphasis on developing talents and skills required in acting for the screen (Same as Theatre Arts 113). CSU/UC

**DM 150****Producing and Directing**

*Formerly: TELV 150: Producing and Directing for Television*

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Recommended Preparation: DM 112; DM 115A with a minimum grade of C.

Emphasizes production planning and preparation, aesthetics, budgeting, and working with a production team. Practical experience in producing and directing studio and remote productions. Multiple directing/ producing assignments each semester. Prior or concurrent enrollment in Digital Media 112, and 115A recommended. CSU/UC

**DM 152****Beginning Audio Production**

*Formerly: TELV 152: Beginning Audio Production*

Unit(s): 3.0 Class Hours: 54.0 Lecture, 18.0 Lab total.

Introduction to the theory and practice of audio production for radio, stage, television, film and digital recording applications. Students will learn the fundamentals of sound design and aesthetics, microphone use, and digital recording equipment. Students gain hands on experience recording, editing, mixing and mastering audio. Upon completion, students will have basic knowledge of applied audio concepts, production workflow, equipment functions, and audio editing software. Same as Music 152. CSU/UC

**DM 170****Drone Pilot License Test Prep**

Unit(s): 0.5 Class Hours: 9.0 Lecture total.

The class preps students to take the FAA Part 107 test, and other knowledge tests required by the FAA. To fly drones commercially, students need to pass an FAA drone pilot knowledge test. CSU

**DM 171****Drone Pilot Training**

Unit(s): 1.5 Class Hours: 18.0 Lecture, 27.0 Lab total.

Learn the ins-and-outs of legally flying a drone. The Drone Pilot Training course covers FAA rules and regulations, settings and features of drones, and supervised hands-on flight instruction with a licensed drone pilot. Drones provided for the class. CSU

**DM 175****Drone Cinematography & Editing**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Drone flight techniques designed for the practice of cinema-graphic filming, production and post-production. CSU

**DM 193****Motion Graphics with Adobe After Effects**

*Formerly: TELV 193: Motion Graphics with Adobe After Effects*

Unit(s): 3.0 Class Hours: 36.0 Lecture, 72.0 Lab total.

Recommended Preparation: ART 195; TELV 112 with a minimum grade of C.

This graphics animation course covers the development of original motion graphics. Video editing skills are refined within the animation software to create animated clips for use in multiple media applications. Some experience in non-linear digital video editing is recommended, as well as some graphic design experience. (Same as Art 193) CSU/UC

**DM 215****Advanced Single-Camera/Digital Cinema Production**

*Formerly: TELV 215: Advanced Single-Camera/ Digital Cinema Production*

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Recommended Preparation: TELV 112; TELV 115A with a minimum grade of C.

Advanced single-camera digital cinematography production and post- production technology, workflow and aesthetics. Emphasis upon industry standards and approaches for television and cinema production with professional High Definition and Ultra High Definition/4K video cameras. Includes HD, DSLR and other large-sensor digital cinema cameras, such as RED. CSU

**DM 230A****Beginning News & Sports Production**

*Formerly: TELV 230A: Broadcast News Production*

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Beginning producing for broadcast journalism and sportscasting. Create content for TV and digital platforms with emphasis on producing stories, newscasts, sportscasts and interviews. Hands-on production class. Emphasizes both field and studio production. Prior enrollment in DM 130 recommended. CSU

**DM 230B****Intermediate News & Sports Production**

*Formerly: TELV 230B: Broadcast News Production*

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Intermediate producing for broadcast journalism and sportscasting. Create content for TV and digital platforms with emphasis on producing stories, newscasts, sportscasts and interviews. Hands-on production class. Emphasizes both field and studio production. Prior enrollment in DM 230A recommended. CSU

### **DM 230C**

#### **Advanced News & Sports Production**

*Formerly: TELV 230C: Broadcast News Production*

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Advanced producing for broadcast journalism and sportscasting. Create content for TV and digital platforms with emphasis on producing stories, newscasts, sportscasts and interviews. Hands-on production class. Emphasizes both field and studio production. Prior enrollment in DM 230B recommended. CSU

### **DM 230D**

#### **Executive News & Sports Production**

*Formerly: TELV 230D: Broadcast News Production*

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Executive producing for broadcast journalism and sportscasting. Oversee content creation for TV and digital platforms with emphasis on producing stories, newscasts, sportscasts and interviews. Hands-on production class. Emphasizes both field and studio production. Prior enrollment in DM 230C recommended. CSU

### **DM 240**

#### **Agency Film Production**

*Formerly: TELV 240: Agency Film Production*

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

This is a capstone course, where students will build upon skills and concepts developed in previous camera, editing and cinematography courses in order to learn how to produce and direct advertising agency productions. Prior enrollment in Digital Media 112, 115A, and 140 recommended. CSU

### **DM 255**

#### **Motion Picture Technical Production**

*Formerly: TELV 255, Motion Picture Technical Production*

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

This course provides hands-on, practical experience in technical production, culminating in a fully produced film screened to the public. The final movie presentation becomes the basis for creating a production reel. CSU/UC

### **DM 256**

#### **Intermediate Motion Picture Technical Production**

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Recommended Preparation: DM 255 with a minimum grade of C.

This course provides hands-on practical experience in intermediate technical production, culminating in a fully produced film screened to the public. The final movie presentation becomes the basis for creating a production reel. Prior enrollment in DM 255 is recommended. CSU

### **DM 257**

#### **Advanced Motion Picture Technical Production**

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Recommended Preparation: DM 256 with a minimum grade of C.

This course provides hands-on on practical experience in advanced technical production, culminating in a fully produced film, screened to the public. The final movie presentation becomes the basis for creating a production reel. CSU

### **DM 260**

#### **Lighting Fundamentals**

*Formerly: TELV 260, Lighting Fundamentals*

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Theory and practices of lighting including control systems and instruments as well as the techniques for proper installation, operation, maintenance, and safety. Same as THEA 133. CSU

### **DM 265**

#### **Documentary Film Production**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Recommended Preparation: DM 115A; DM 112; DM 140 with a minimum grade of C.

This is a capstone course where students will build upon skills and concepts developed in previous camera, editing, and cinematography courses. Students will learn to produce and direct short-form documentaries. CSU

### **EARTH SCIENCE (ERTH)**

#### **ERTH 110 (C-ID GEOL 120)**

##### **Introduction to Earth Science**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A study of the processes that shape and form the Earth and define its place in the solar system. Introduction to the sciences of geology, oceanography, meteorology, and astronomy. Not open to students who are enrolled, or have credit in Geology 101 or Geography 101. CSU/UC

#### **ERTH 110H (C-ID GEOL 120)**

##### **Honors Introduction to Earth Science**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

An intensive study of the processes that shape and form the Earth and define its place in the solar system. Introduction to the sciences of geology, oceanography, meteorology, and astronomy. Not open to students who are enrolled, or have credit in Geology 101 or Geography 101. CSU/UC

#### **ERTH 115**

##### **Earth Science for Educators**

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

The study of the dynamic forces shaping the earth, including its oceans and atmosphere. This class is open to all majors but is oriented towards enhancing the earth science knowledge of future teachers. Also includes an introduction to the solar system. Half-day field trip required. Not open to students who are enrolled or have credit in Earth Science 110, Geology 101, or Geography 101. CSU/UC

#### **ERTH 150**

##### **Introduction to Oceanography**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introductory study of the ocean and its topography, sediments, circulation, shoreline processes, biological productivity, and mineral resources (Same as Geology 150). CSU/UC

**ERTH 150H****Honors Introduction to Oceanography**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

Enriched and intensive study of the ocean's topography, sediments, circulation, shoreline processes, biological productivity, and mineral resources. Course is taught in a seminar format to provide optimal active learning and critical thinking (Same as Geology 150H). CSU/UC

**ECONOMICS (ECON)****ECON 120 (C-ID ECON 202)****Principles/Macro**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: MATH 060 or MATH 083 or MATH 084 with a minimum grade of C.*

Introduction to macroeconomics, including basic economic concepts, analysis of markets, national income accounting, employment, short run business cycle fluctuations, long run growth trends, monetary and fiscal policies, and international economic issues. Intended for economics, business, and certain engineering/ computer science majors. CSU/UC

**ECON 121 (C-ID ECON 201)****Principles/Micro**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: MATH 060 or MATH 083 or MATH 084 with a minimum grade of C.*

Introduction to microeconomics, including basic economic concepts, analysis of markets, efficiency, consumer and firm behavior, industry structures, market failure, and resource markets. For economics, business, and certain engineering and computer science majors. CSU/UC

**EDUCATION (EDUC)****EDUC 105****Exploration in the Field of Education**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: Before observation begins, verification of the state-mandated Tdap vaccination, MMR immunization, and negative TB test will be required.*

An exploration in the field of education from early childhood through high school. This course requires 20 hours of structured observation in the following traditional and non-traditional settings: early childhood, elementary school, middle school, high school, special education, and English Language Development (ELD). Topics will include: a) roles and responsibilities of the teacher, b) teaching and learning of diverse student populations across different education spans, and c) careers in education beyond the classroom teacher. CSU

**EDUC 113****Tutoring Reading in Elementary Schools**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

An examination of effective tutoring strategies, focusing on the support for reading skills of elementary age children. Students are placed in local K-8 classrooms to gain experience with school-age children. Twenty+ service learning hours required in addition to lecture hours. Student must provide proof of negative TB screening. CSU

**EDUC 120A****Development of the School-Age Child**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An examination of the physical, cognitive, personality, and social development of children between the ages of five and twelve years.

Attention will be paid to the scientific study of middle childhood, developmental trends, and issues of diversity. Not offered every semester. (Same as CDEV 120A) CSU/UC

**EDUC 120B****School-Age Child Care and Recreation Activities**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course will focus on school age creative activities, including planning and implementing an appropriate before/after school curriculum. Attention will be paid to integrating academics, recreation, and creative activities suitable for school-age child care programs. (Same as CDEV 120B) CSU

**EDUC 201 (C-ID EDUC 200)****Introduction to Education**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: EDUC 105 with a minimum grade of C.

Introduction to the field of education including historical and philosophical perspectives; school governance and funding; societal influences and student diversity; school curriculum standards; professional standards and teaching performance expectations. Students will independently complete a minimum of 45 hours of Service Learning (structured observation and internship/ fieldwork) in local public elementary school classrooms during the semester. CSU/UC

**EDUC 203****Introduction to Children with Special Needs**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduces the variations in development of children and adolescence with special needs, and the resulting impact on families. Includes an overview of historical and societal influences, laws relating to individuals with special needs, and the identification and referral process. (same as CDEV 205) CSU

**EDUC 204****Personal Proficiency in Educational Technologies for Secondary Teachers**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Students will develop personal proficiency in educational technologies to facilitate the teaching process in a secondary classroom setting. Students will also apply digital literacy skills through the use of presentation, spreadsheet, word processing and publication software, interactive online tools, internet search and retrieval, information literacy, electronic communication and collaboration, and awareness of legal and ethical issues in the digital world. CSU

**EDUC 205****Personal Proficiency in Educational Technologies for Elementary Teachers**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Students will develop personal proficiency in educational technologies to facilitate the teaching process in an elementary classroom setting. Students will also apply digital literacy skills through the use of presentation, spreadsheet, word processing and publication software, interactive online tools, internet search and retrieval, information literacy, electronic communication and collaboration, and awareness of legal and ethical issues in the digital world. CSU

**EDUC 210**



**The Teaching Experience: Secondary Education**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduction to the history, philosophy, and sociology of secondary education. This course will cover the California Teaching Performance Expectation and Assessment, needs of special populations, English learners, struggling readers, content standards, and major curriculum reform documents. Students participate in 45 hours of structured observation in a local secondary classroom. CSU/UC

**EMERGENCY MEDICAL TECHNICIAN (EMT)****EMT 104****Emergency Medical Technician**

Unit(s): 10.0 Class Hours: 162.0 Lecture, 54.0 Lab total.

Corequisite: American Heart Association Basic Life Support (BLS) Healthcare Provider Card and concurrent enrollment in EMT 105. Basic course for the Emergency Medical Technician (EMT). Satisfies requirements for County/State Emergency Medical Services (EMS) Authority. Prepares students to take the Orange County Emergency Medical Services (OCEMS)/National Registry certifying exam for state certification. This course provides depth and breadth of foundational knowledge of the National EMS Education Standards derived from the National Scope of Practice Model for entry-level EMTs. A combination of may be taken a maximum of four enrollments. CSU

**EMT 105****Clinical EMT Skills Laboratory**

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Corequisite: American Heart Association Basic Life Support (BLS) Healthcare Provider Card and concurrent enrollment in EMT 104.

Supervised use of skills lab through supplemental learning to assist the student in development of clinical competency and mastery of psychomotor skills as addressed in course EMT 104. Hours verified by instructor. CSU

**EMT 111****Recertification for EMT**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

*Prerequisite: Valid EMT certificate or equivalent within past two years. Valid CPR card: American Heart Association Health Care Provider.*

Update emergency medical techniques, equipment, and EMSA policies. Meets state requirements for EMT recertification. CSU

**EMT 198-00****Topics**

Unit(s): 0.5-3.0 Class Hours: 9.0-54.0 Lecture total.

Courses in a variety of contemporary topics will be offered to meet the interests and needs of students in the Emergency Medical Technician area. Individual descriptions will be provided for each course developed. CSU

**ENGINEERING (ENGR)****ENGR 012****Civil/Architectural Blueprint Reading**

*Formerly: AEC Print Reading*

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Reading and interpreting blueprints for civil engineering, architecture, and construction fields. No prior blueprint reading experience is needed. Course provides preparation for more advanced civil and architectural drafting coursework.

**ENGR 051****Introduction to Drafting and CAD**

*Formerly: Basic Technical Drawing*

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Introductory course on civil, mechanical, and electrical drafting.

Topics include: drafting careers, reading and creating basic engineering drawings (modeling, dimensioning, annotations) using industry-standard CAD software (AutoCAD, Solidworks, and more). Course is an appropriate starting course for students with no drafting or CAD experience and are interested in the fields. Course provides direction for continuing drafting coursework.

**ENGR 100A (C-ID ENGR 110)****Introduction to Engineering**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The course explores the branches of engineering, the functions of an engineer, and the industries in which engineers work.

Explains the engineering education pathways and explores effective strategies for students to reach their full academic potential. Presents an introduction to the methods and tools of engineering problem solving and design including the interface of the engineer with society and engineering ethics. Develops communication skills pertinent to the engineering profession. CSU/UC

**ENGR 100B****Introduction to Architecture/Civil Engineering/Construction (AEC)**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Introduction to the Architectural, Civil Engineering, Construction (AEC) fields. Includes an overview of academic programs, career information and preparation requirements, virtual or in person field trips and guest speakers. CSU

**ENGR 103****Solidworks Beginning Solid Modeling**

*Formerly: Beginning Solid Modeling*

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introductory course in parametric solid modeling using Solidworks, an industry standard engineering design software (CAD).

This course will include a solid modeling overview, solid model construction techniques (extrude, revolve, fillet, chamfer, etc.), including the preparation of individual solid components and basic solid model assemblies (Same as Manufacturing Technology 103). CSU

**ENGR 104****Solidworks Intermediate Solid Modeling**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: ENGR 103 or MNFG 103 with a minimum grade of C.*

Intermediate course for solid modeling using Solidworks, an industry standard engineering design software (CAD). Includes a review of the introductory class and changes to the Solidworks interface. Instruction in the use of intermediate Solidworks part modeling skills such as assembly modeling and sub- assemblies is included (Same as Manufacturing Technology 104). CSU

**ENGR 105****Solidworks Advanced Solid Modeling**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: ENGR 104 or MNFG 104 with a minimum grade of C.*

Advanced course for solid modeling includes a review of the intermediate class and changes to the Solidworks interface. Instruction in the use of Solidworks part modeling, assembly modeling, sub-assemblies, advanced photoworks and advanced animator emphasized (Same as Manufacturing Technology 105). CSU

**ENGR 110 (C-ID ENGR 110)****Advanced CAD Applications**

Unit(s): 0.5-4.0 Class Hours: 24.0-192.0 Lab total.

Individual skill development for advanced students desiring to learn special applications using college licensed computer drafting and design software. Each 0.5 unit of credit requires 24 laboratory hours. Suggested preparation: Engineering 184. CSU

**ENGR 111****Basic Mechanical Blueprint Reading**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Reading and interpreting blueprints for manufacturing technologies (Same as Manufacturing Technology 111.) CSU

**ENGR 114****Geometric Dimensioning and Tolerancing**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Drawing interpretation utilizing geometric dimensioning and tolerancing per ASME Y14.5M (formerly ANSI Y14.5M) as applied in engineering, manufacturing, and inspection. Suggested preparation: prior course or experience in drafting with conventional dimensioning and tolerancing. (Same as Manufacturing Technology 114) CSU

**ENGR 115****Cooperative Work Experience Education- Occupational**

Unit(s): 1.0-4.0 Class Hours: 60.0-300.0 Lab total.

This work experience course of supervised employment is designed to assist students to acquire desirable work habits, attitudes and skills in a field related to the students' major so as to enable them to become productive employees. This course also provides students with career awareness for jobs. 75 hours of paid work or 60 hours of un-paid work equals one unit of course credit. Student repetition is allowed per Title 5, Section 55253. CSU

**ENGR 118 (C-ID ENGR 180)****Surveying**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite: MATH 162 or MATH 170 with a minimum grade of C or transcribed high school trigonometry or pre-calculus .*

The course applies theory and principles of plane surveying: office computations and design; operation of surveying field equipment; and production of engineering plans/maps. Topics include distances, angles, and directions; differential leveling; traversing; property/boundary surveys; topographic surveys/mapping; volume/earthwork; horizontal and vertical curves; land description techniques; and GPS. Extensive field work using tapes, levels, transits, theodolites, total stations, and GPS. Assists in passing the land surveyor-in-training exam. CSU/UC

**ENGR 119****Advanced Plane Surveying**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite: ENGR 118 with a minimum grade of C or Instructor may waive if student can show proof of industry experience in surveying equal to or greater than ENGR 118.*

The course applies theory and principles of plane surveying: office computations and design; operation of surveying field equipment; and production of engineering plans/maps. Topics include distances, angles, and directions; differential leveling; traversing; property/boundary surveys; topographic surveys/mapping; volume/earthwork; horizontal and vertical curves; land description techniques; and GPS. Extensive field work using tapes, levels, transits, theodolites, total stations, and GPS. Assists in passing the land surveyor-in-training exam. CSU/UC

**ENGR 122****Engineering Drawing**

Unit(s): 3.0 Class Hours: 45.0 Lecture, 27.0 Lab total.

Principles of engineering drawing: projections, views, sections, dimensions, tolerancing, assemblies, manufacturing processes, engineering drafting practices. Utilizing 2D CAD and 3D solid modeling CAD software. Suggested preparation: prior course or experience in drafting and CAD. CSU/UC

**ENGR 124****Advanced Mechanical Drafting and Design**

*Formerly: Advanced Drawing*

Unit(s): 3.0 Class Hours: 45.0 Lecture, 27.0 Lab total.

Advanced topics in mechanical drafting and design: working drawings, fasteners, cams, gears, secondary auxiliary views, advanced sectioning, dimensioning, tolerancing, introduction to GD&T, design for manufacturability, and a focus on using 3D solid modeling CAD software. Suggested preparation: prior drafting or CAD course or experience (e.g., Engr 122 or 125). CSU/UC

**ENGR 125 (C-ID ENGR 150)****Engineering Graphics**

Unit(s): 3.0 Class Hours: 45.0 Lecture, 27.0 Lab total.

*Prerequisite: MATH 162 with a minimum grade of C.*

This course covers the principles of engineering drawings in visually communicating engineering designs and an introduction to computer-aided design (CAD). Topics include: the development of visualization skills; orthographic projections; mechanical dimensioning and tolerancing practices; the engineering design process. Assignments develop sketching skills for 2-D and 3-D CAD. The use of CAD software is an integral part of the course. Suggested preparation: prior course or experience with drafting and CAD. CSU/UC

**ENGR 130A****CATIA Beginning Solid Modeling**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introductory course in parametric solid modeling CAD using CATIA software. Topics include: CAD overview, sketching, basic solid model creation (base features, pads, pockets, grooves, shafts, etc.) sketch constraints, reference elements, hole features, feature editing, assembly and drawing creation (Same as Manufacturing Technology 130A). CSU

**ENGR 130B****CATIA Intermediate Solid Modeling**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: ENGR 130A or MNFG 130A with a minimum grade of C. Intermediate course in parametric solid modeling CAD using CATIA software. Topics: intermediate/ advanced level sketching & modeling (sweeps, ribs, slots), feature editing & transformation, assemblies, drafting workbench, surface modeling, and other CATIA modules. (Same as Manufacturing Technology 130B). CSU

**ENGR 131****Introduction to Mechatronics**

*Formerly: Engineering Mechatronics Technology Survey*

Unit(s): 0.5 Class Hours: 9.0 Lecture total.

Course provides hands-on exposure to modern techniques in rapid prototyping, including: 3D printing, laser cutting, 3D scanning, and other processes used in mechatronics and engineering. Course provides a good introduction to the Engineering Mechatronics program. CSU

**ENGR 132****Introduction to Robotics**

Unit(s): 2.5 Class Hours: 36.0 Lecture, 27.0 Lab total.

Introductory course in robotics. Topics include history of robotics, role of robotics in modern engineering, industrial automation, emerging technologies, basic design, sensors, circuitry, actuators, mechanics, programming, and a hands-on robot design and construction project. CSU

**ENGR 133****Basic Mechatronics**

*Formerly: Basic Mechatronics Engineering Technology*

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Introductory course in mechatronics (mechanical systems controlled with electronics or computer technology) with an emphasis on hands-on design, fabrication, and testing. Topics include: mechanical design and fabrication (solid-modeling CAD, mechanical elements, rapid prototyping with 3D printing, laser cutting and engraving, and other processes), micro-controllers (Arduino), actuators (servo motors), sensors, and electronics systems (basic circuit analysis, construction, breadboarding, sensors, and more). Some prior experience with Solidworks, Arduino, and basic algebra is suggested but not required. CSU

**ENGR 134****Intermediate Mechatronics**

*Formerly: Intermediate Mechatronics Engineering Technology*

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Intermediate course in mechatronics with an emphasis on hands-on design, fabrication, and testing. Topics include: mechanical design and fabrication (solid-modeling CAD, 3D printing, laser cutting, SLA, G-code, CNC engraving, hand tools), micro-controllers (Arduino), actuators (electric motors, pneumatics), sensors, and electronics systems (circuits, soldering, DMM, oscilloscope), and a hands-on design project. Some prior experience or coursework with mechatronics (Engr 133 or similar), Solidworks, Arduino, and basic algebra is suggested. CSU

**ENGR 135****Advanced Mechatronics**

*Formerly: Advanced Mechatronics Engineering Technology*

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Advanced course in mechatronics engineering technology with an emphasis on hands-on fabrication and testing. Topics include: design (solid modeling CAD, mechanics considerations, machine elements), mechanical fabrication (3D printing, SLA, laser, G-code, introduction to CNC), electrical systems (circuit construction, circuit elements, op amps, transistors), control systems (micro- controllers, PID control, sensors, actuators/ motor control), lab work, and hands-on projects. Prior experience with mechatronics (Engr 134 or similar), Solidworks, Arduino, and basic algebra is suggested. CSU

**ENGR 142****Civil Drafting**

*Formerly: Architecture/Civil Engineering/ Construction (AEC) Drawing*

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Course teaches industry-standard drafting practices in civil engineering, architecture, and construction drawings and the use of industry-standard CAD software (AutoCAD, Civil 3D). Topics include: reading/interpreting blueprints, line types, views, projection, sectional view, annotations and callouts, creation of blueprints for residences, structures, and other civil projects. Prior course or experience with AutoCAD is strongly suggested. CSU

**ENGR 154****Revit**

*Formerly: AEC BIM with Revit*

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Course covers Autodesk Revit, a 3D parametric CAD software that is an industry standard for architectural/civil design. Topics include 3D modeling, drawing creation, BIM (building information modeling) concepts, organizing projects, toolbox elements, templates, design, visualization, modeling, and documentation. Prior course or experience with AutoCAD and civil/architectural drafting is strongly suggested CSU

**ENGR 158****Basic Machining Concepts and Operations**

Unit(s): 3.0 Class Hours: 18.0 Lecture, 126.0 Lab total.

Fundamental operations on lathes, milling machines, grinders, and drill presses, including precision measurements and layout. Equips students with skills and theory necessary to enter or upgrade within the machinist trade. (Same as Manufacturing Technology 158). CSU

**ENGR 183****AutoCAD I**

*Formerly: CAD I - Computer Aided Drafting*

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

A first course in AutoCAD by Autodesk, an industry standard engineering CAD software, especially in the civil and architectural fields. Topics include display and file management, units, entities, object selection, advanced editing, layers, dimensions, text, and graphic exchange. CSU/UC

**ENGR 184****AutoCAD II**

*Formerly: CAD II - Computer Aided Drafting*

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

A second course in Autodesk AutoCAD, an industry standard engineering CAD software, especially in the civil and architectural fields. Topics include: advanced dimensioning, viewports, hatches, blocks, plotting, attributes, inquiry, intermediate apps, working drawings, introduction to 3D CAD. Suggested preparation: prior course or experience with AutoCAD. CSU

**ENGR 185****Civil 3D**

*Formerly: 3D CAD with Civil 3D*

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Course teaches Autodesk Civil 3D - an industry standard CAD software for civil engineers. Topics include advanced modeling, model merging, project management, parcels, surveys, surfaces, alignments, profiles, 3D rendering, and presentation. Prior coursework or experience with AutoCAD is strongly suggested. CSU

**ENGR 235 (C-ID ENGR 130)****Statics**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: PHYS 217; MATH 185 with a minimum grade of C.*

A first course in engineering mechanics: properties of forces, moments, couples and resultants; two- and three-dimensional force systems acting on engineering structures in equilibrium; analysis of trusses, and beams; distributed forces, shear and bending moment diagrams, center of gravity, centroids, friction, and area and mass moments of inertia. Utilizes SI metrics. CSU/UC

**ENGR 240 (C-ID ENGR 230)****Dynamics**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: ENGR 235 with a minimum grade of C.*

Fundamentals of kinematics and kinetics of particles and rigid bodies. Topics include kinematics of particle motion; Newton's second law, work-energy and momentum methods; kinematics of planar motions of rigid bodies; work-energy and momentum principles for rigid body motion; introduction to mechanical vibrations. CSU/UC

**ENGR 250****Electric Circuits**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Corequisite: Concurrent enrollment in MATH 280 and PHYS 227.

An introduction to the analysis of electrical circuits. Use of analytical techniques based on the application of circuit laws and network theorems. Analysis of DC and AC circuits containing resistors, capacitors, inductors, dependent sources, operational amplifiers, and/or switches. Natural and forced responses of first and second order RLC circuits; the use of phasors; AC power calculations; power transfer; and energy concepts. CSU/UC

**ENGR 250L****Electric Circuits Laboratory**

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Corequisite: Concurrent enrollment in ENGR 250.

An introduction to the construction and measurement of electrical circuits, including resistive, RL, RC, RLC, and operational amplifier circuits. Basic use of electrical test and measurement instruments including multimeters, oscilloscopes, power supplies, and function generators. Interpretation of measured data under DC, transient, and sinusoidal steady-state (AC) conditions. CSU/UC

**ENGR 281****Properties of Engineering Materials**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: CHEM 209 and PHYS 217 with a minimum grade of C.*

Study of atomic, microscopic, and macroscopic structure of metals; properties' enhancement by alloying and heat treatment; effects of temperature and corrosion on metals; fatigue; and other materials (wood, plastic, and concrete). CSU/UC

**ENGLISH (ENGL)****ENGL 061****Introduction to Composition**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: ENGL N60 and Reading proficiency as assessed by the Reading assessment process or qualifying profile from English placement process.*

Expository paragraph writing emphasizing various methods including argumentation. Practice in refining sentence skills and grammar.

**ENGL 061X****Accelerated Introductory Composition Skills**

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

Recommended Preparation: READ 101X or recommended to be taken concurrently READ 101.

An introductory English course designed to prepare students for English 101, Freshman Composition, emphasizing sentence structure, paragraph writing, essay writing, and argumentation using reading-based modeling.

**ENGL 066****Route to Writing Success: Freshman Composition Laboratory**

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Corequisite: Must be taken concurrently ENGL 101.

Laboratory exercises are designed to explore and understand the reading process, the writing process, grammar and punctuation rules in order to successfully complete English 101. This class must be taken concurrently with an English 101 course.

**ENGL 101 (C-ID ENGL 100)****Freshman Composition**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: ENGL 061, or EMLS 112, or ENGL 061X with a minimum grade of C, or qualifying profile from English placement process.*

Expository and argumentative essays and the research paper. Special interest sections described in schedule of classes. CSU/UC

**ENGL 101H (C-ID ENGL 100)**

**Honors Freshman Composition**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: A college GPA or high school GPA for first-term college students of 3.0 or higher AND EMLS 112, or ENGL 061X, or ENGL 061 with a minimum grade of C, or qualifying profile from English placement process.*

An enriched exposure to expository and argumentative essays and the research paper, requiring in-depth analysis of issues and substantive treatment of student-selected topics. CSU/UC

**ENGL 102 (C-ID ENGL 105, C-ID ENGL 110, C-ID ENGL 120)**

**Literature and Composition**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.*

A second semester course in composition and literature that uses literature to develop critical thinking skills with extensive readings selected from the four major genres. CSU/UC

**ENGL 102H (C-ID ENGL 105, C-ID ENGL 110, C-ID ENGL 120)**

**Honors Literature and Composition**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students) and ENGL 101, or ENGL 101H with a minimum grade of C.*

An enriched approach designed for honors students. A second semester course in composition and literature that uses literature to develop critical thinking skills with extensive readings selected from the four major genres. CSU/UC

**ENGL 103 (C-ID ENGL 105)**

**Critical Thinking and Writing**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: ENGL 101, or ENGL 101H with a minimum grade of C.*

This course focuses on developing critical thinking, reading, and writing skills by studying established argumentative methods and models and applying them to contemporary issues. Emphasis will be on logical reasoning and analytical and argumentative skills necessary for critical writing. CSU/UC

**ENGL 103H (C-ID ENGL 105)**

**Honors Critical Thinking and Writing**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: Cumulative GPA of 3.0 or higher in college work (or high school for first-term students) and ENGL 101, or ENGL 101H with a minimum grade of C.*

Enriched and intensive exploration of historical and contemporary issues. Application of critical thinking, writing and reading skills to established argumentative methods and models through student-initiated discussion and problem-solving in a seminar setting. CSU/UC

**ENGL 104 (C-ID ANTH 130)**

**Language and Culture**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

General introduction to the processes of human communication emphasizing coextensive aspects of language and culture. Surveys core areas of linguistic anthropology: structural linguistics; biological basis of language; and sociolinguistics. Topics include acquisition of first and second languages, languages in contract, and the effects of both language and culture on inter/intra group communication.

Languages spoken in the local area are used as basis of study. (Same as Anthropology 104.) CSU/UC

**ENGL 104H (C-ID ANTH 130)**

**Honors Language and Culture**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

General introduction to the processes of human communication, emphasizing coextensive aspects of language and culture. Surveys core areas of linguistic anthropology: structural linguistics, biological basis of language, and sociolinguistics. Topics include acquisition of first and second languages, languages in contact, and the effects of both language and culture on inter/intra group communication.

Languages spoken in the local area are used as basis of study. Requires individual research and oral presentation of readings in a seminar setting (Same as Anthropology 104H). CSU/UC

**ENGL 213 (C-ID ENGL 200)**

**Creative Writing**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.*

Introduction to writing techniques focusing on the four literary genres. Workshop format, emphasis on writing and critiquing. CSU/UC

**ENGL 220**

**Survey of the Bible as Literature**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.*

A study of the literary history, influence, and craftsmanship of the Bible and an exploration of related stories, poems, plays, essays, and other diverse materials. CSU/UC

**ENGL 222**

**Essential Information for English Major Success**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Recommended Preparation: Have an Electronic Educational Plan (ed plan) for the A. A. degree prepared with or reviewed by an academic counselor.

How to be a better prepared English major: introduces students to SAC's English courses, pathways for law and literature at SAC, the diversity of career options, and transfer academic opportunities. Offers introductions to the literary analytical schools; current technology; the types of writing, research and reading expected of English majors; study techniques and approaches to overcoming barriers to success for English majors. CSU

**ENGL 231 (C-ID ENGL 160)**

**Survey of English Literature I**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.*

Introductory study of representative selections of British literature from the Anglo-Saxon period to the neo-classical period. Emphasis on authors best exemplifying their period, such as Chaucer, Shakespeare, Spenser, Jonson, Milton, Donne, Dryden, Johnson, Behn, Pope and others. CSU/UC

**ENGL 232 (C-ID ENGL 165)****Survey of English Literature II**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.*

Introductory study of representative selections from the English Romantic Movement to the present. Emphasis on those authors best exemplifying their period, such as Austen, Wordsworth, Coleridge, Byron, the Shelleys, Keats, Tennyson, Newman, Carlyle, the Brownings, Dickens, the war poets, Houseman, Yeats, Wilde and Woolf. CSU/UC

**ENGL 233A****Shakespeare's Comedies and Romances**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.*

Study of selected Shakespearean comedies and romances. Emphasizes dramatic elements, depiction of human nature, and timeless/timely conflicts. Augmented by films and, if available, appropriate field trips. Different selections in English 233ABC. CSU/UC

**ENGL 233B****Shakespeare's Tragedies and History Plays**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.*

Study of selected Shakespearean history plays and tragedies. Emphasizes dramatic elements, depiction of human nature, and timeless/timely conflicts. Augmented by films and, if available, appropriate field trips. Different selections in English 233ABC. CSU/UC

**ENGL 233C****Shakespeare's Theatre**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.*

Study of selected Shakespearean plays. Emphasizes dramatic elements, depiction of human nature, and timeless/timely conflicts. Augmented by films and, if available, appropriate field trips. Different selections in English 233ABC. CSU/UC

**ENGL 241 (C-ID ENGL 130)****Survey of American Literature 1600-1865**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.*

Survey of America's greatest works of literature from 1600-1865. Emphasizes the relationship between various works and general movements in American culture and literary history. CSU/UC

**ENGL 242 (C-ID ENGL 135)****Survey of American Literature, 1865-Present**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.*

Survey of America's greatest works of literature and their contributions to the American culture from 1865 to present. Emphasizes the relationship between literary and intellectual history. CSU/UC

**ENGL 243****The Modern American Novel**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.*

Study of significant American novels written since 1900. May include, but not limited to works by Fitzgerald, Hemingway, Faulkner, Hurston, Heller, Kerouac, Nabokov, Erdrich, Cisneros, and Morrison. CSU/UC

**ENGL 245****The Image of African Americans in Literature and Films**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.*

Examines literature and films by and about African-Americans in relationship to historical periods. Explores cultural, ethnic, and social environments for their impact on development of African-American images. CSU/UC

**ENGL 246****Survey of Chicano Literature**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.*

Examines American literature by and about Chicanos. Emphasizes the relationships between various works and the Chicanos' place in American society/culture. CSU/UC

**ENGL 270 (C-ID ENGL 180)****Children's Literature**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.*

A study of literature for children emphasizing the history, trends, issues, and evaluation of all major genres: picture books, poetry, drama, traditional literature, non-fiction, and fiction, including full-length works. CSU/UC

**ENGL 271 (C-ID ENGL 140)****Survey of World Literature I**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.*

Survey of selections from world masterpieces from the beginnings of writing through the 1600's. Literary works studied in historical context for artistic form, their influence on their culture and others, and general contribution to understanding human experience. CSU/UC

**ENGL 272 (C-ID ENGL 145)****Survey of World Literature II**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.*

Survey of world literary masterworks since the Renaissance studied for artistic form, cultural influence, and contributions to modern and contemporary thought. CSU/UC

**ENGL 278****Survey of Literature by Women**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.*

An historical survey of literature by women. Will include short stories, novels, plays, poetry, and non-fiction. CSU/UC

## **ENGLISH AS A SECOND LANGUAGE (ESL)**

### **ESL N88**

#### **Verb Tenses**

Unit(s): 1.5 Class Hours: 24.0 Lecture, 6.0 Lab total.

*Prerequisite: Eligible for EMLS 107 or higher.*

Intensive oral and written practice with verb forms and tenses in a variety of contexts. Laboratory is required. May be taken after ESL N89.

## **ENGLISH FOR MULTILINGUAL STUDENTS (EMLS)**

### **EMLS N49**

#### **Introduction to Academic Speaking Skills**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Beginning course for non-native students with previous instruction in basic English as a second language. Includes listening discrimination, pronunciation, speaking and listening skill building. Skills are intensively practiced and reviewed. Not applicable to associate degree. (Same as CMST N49).

### **EMLS N52A**

#### **Beginning American English Pronunciation Skills**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Instruction in pronunciation of American English sounds, identifying commonly mispronounced sounds, and common sound spelling patterns. Not applicable to associate degree. (Same as CMST N52A.)

### **EMLS N52B**

#### **Intermediate American English Pronunciation Skills**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: EMLS N52A.

More extensive instruction in American English sounds. Emphasis on more difficult sounds, sound blends, word endings, syllable and word stress. Not applicable to associate degree. (Same as CMST N52B.)

### **EMLS 055**

#### **Writing, Grammar and Reading I**

Unit(s): 6.0 Class Hours: 108.0 Lecture total.

*Prerequisite: Qualifying profile from ESL/EMLS placement process.*

Sentence-level and basic paragraph writing for multilingual students who can speak English but often make grammar mistakes when writing. Narrative paragraphs and journal writing. Revision and editing. Basic grammar including verb tenses and modals. Critical reading.

### **EMLS 103**

#### **Grammar for Better Writing I**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: Qualifying profile from ESL/EMLS placement process.*

Recommended Preparation: Taking EMLS 104 concurrently is recommended.

Sentence refining course for multilingual students who can speak English but often make grammar mistakes when writing. Basic grammar including verb tenses, verbals, modals, nouns, pronouns, compound and complex sentences. Revision and editing. CSU

### **EMLS 104**

#### **College Reading and Writing I**

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

*Prerequisite: Qualifying profile from ESL/EMLS placement process.*

Recommended Preparation: Taking EMLS 103 concurrently or prior to EMLS 104 is highly recommended.

Reading and paragraph-level writing course for bilingual students who need to develop skills in reading academic material and writing academic paragraphs. Emphasis on connection between reading and writing, responding to reading critically, following the writing process and editing. CSU

### **EMLS 105**

#### **Grammar for Better Writing II**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: EMLS 103 Or qualifying profile from ESL/EMLS placement test EMLS 103.*

Recommended Preparation: Taking EMLS 106 concurrently is recommended.

Sentence refining course for bilingual students who can speak English but often make grammar mistakes when writing. Grammar focus is on sentence level accuracy, including transitions, the passive voice and multi-clause sentences. Revision and editing. CSU

### **EMLS 106**

#### **College Reading and Writing II**

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

*Prerequisite: Qualifying profile from ESL/EMLS placement process EMLS 104.*

Recommended Preparation: Taking EMLS 105 concurrently or prior to EMLS 106 is highly recommended.

Reading and short essay-level writing course for bilingual students who need to improve skills in reading academic material and writing academic essays. Emphasis on connection between reading and writing, responding to reading critically, following the writing process and editing. CSU

### **EMLS 107**

#### **Writing, Grammar and Reading II**

Unit(s): 6.0 Class Hours: 108.0 Lecture total.

*Prerequisite: EMLS 055 or qualifying profile from ESL/EMLS placement process.*

Sentence and paragraph-level writing for multilingual students who can speak English but often make grammar mistakes when writing. Narrative and descriptive paragraphs. Revision and editing. Review of basic grammar. Practice with sentence variety. Critical reading. CSU

### **EMLS 109**

#### **Writing, Grammar and Reading III**

Unit(s): 6.0 Class Hours: 108.0 Lecture total.

*Prerequisite: EMLS 107 or qualifying profile from ESL/EMLS placement process.*

Paragraph-level writing for multilingual students who speak English but often make grammar mistakes when they write. Narrative, descriptive, and expository paragraph practice. Revision and editing. Complex grammar structures. Critical reading. CSU

**EMLS 110****Introduction to the Essay**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: EMLS 109 or qualifying profile from ESL/EMLS placement process.*

Introductory essay writing course for bilingual students who speak English fluently but make multiple grammar errors when writing. This composition course progresses from paragraph to essay, emphasizing basic expository modes, grammar review, critical reading, and revision and editing techniques. CSU/UC

**EMLS 112****Advanced Composition**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: EMLS 110 and Passing Proficiency on the Reading Placement process or qualifying profile from ESL/EMLS placement process.*

Advanced-level writing course for bilingual students who are fluent in conversational English but make multiple grammar errors when writing. Emphasis is on complex expository modes, grammatical accuracy in writing, grammar review, research methods, critical reading skills, and revision and editing techniques. CSU/UC

**ENTREPRENEURSHIP (ENTR)****ENTR 100****Introduction to Innovation and Entrepreneurship**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Discover how the entrepreneurial mindset teaches life skills that can make you more successful now and at every stage of your life.

Examine how that mindset affects the social, psychological, and physiological impact of those life skills. Learn the basics of how to start a business and learn how to think like an entrepreneur. CSU

**ENTR 101****Entrepreneurs and Success**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Learn the psychology of becoming a successful entrepreneur. Discover how to find flow and stay on course. Learn the habits of highly successful entrepreneurs. Discover how cutting-edge communication, design, and technology are 21st century drivers of success. CSU

**ENTR 102****Entrepreneurial Ideas and Creativity**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Discover that business creativity is a process that can be learned. Practice the process of searching for new business ideas using proven methods. Turn your creativity into business ideas. CSU

**ENTR 103****Innovations and Opportunities**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Learn how to search for and create a good business opportunity. Learn how to turn business ideas into entrepreneurial opportunities. Explore and map personal specific knowledge to create business innovation. CSU

**ENTR 104****Business Models**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Learn what a business model is and learn if a business model will make money. Discover how to filter business opportunities. Learn how to project whether business opportunities can be scalable, can target identifiable markets, and can achieve profitability. CSU

**ENTR 105****Social Media, Bootstrapping, and Market Validation**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Learn the latest Social Media & Bootstrap Marketing strategies & techniques. Discover how to do more with marketing while spending less. Learn what you need to know about your customer and your market by designing a sound research strategy. Discover how to implement a market validation strategy. CSU

**ENTR 106****Building an Entrepreneurial Team**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Learn how to create a network of principals, advisors, collaborators, managers, attorneys, accountants, and employees to build a successful business team. Explore how to organize your company and your business for day-to-day operations. Issues in hiring people and outsourcing. CSU

**ENTR 110****Capstone Business Simulations**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Participate in realistic hands-on business simulations. Make complex business decisions and learn the implications of decisions made. Learn real world business principles in an exciting business context. CSU

**ENTR 111****Capstone Entrepreneurial Case Studies**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Discuss complex entrepreneurial business cases in a highly interactive environment. Translate complex business cases into critical incidents. Translate critical incidents into simulations. Learn to analyze entrepreneurial problems and solutions. CSU

**ENTR 140****Fashion E-Commerce**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Learn how to create and manage an E-commerce store. Study of the operations of an established fashion E-Commerce retail business. Concepts of merchandising include buying, pricing, stock control, credit, credit control, omni-channel strategies, logistics, layout, customer service, marketing, and analytical software. (Same as FDM 140.) CSU

**ENVIRONMENTAL STUDIES (ENVR)****ENVR 140 (C-ID GEOL 130)****Environmental Geology**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduction to environmental geology, the interaction between the Earth and mankind. Global study of geologic resources, resource management, geologic hazards, and waste remediation (Same as Geology 140). CSU/UC



**ENVR 170****Environmental Challenges of the 21st Century**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Examines the environmental impacts of increased human population on food, water and energy resources. Land use policies and environmental effects of pollution will also be analyzed (Same as Biology 170). CSU

**ENVR 200****Environment of Man**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A biological and physical science introduction to environmental problems such as energy, resources, pollution, land use, population and food, including economic and political factors. A natural science elective. (Same as Biology 200) CSU/UC

**ENVR 259****Environmental Biology**

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

Introduction to Environmental Biology. Includes study of ecosystems, population dynamics, classification, diversity of plant and animal species, effects of pollutants at both the cellular and organismal levels, and principles of ecology. (Same as Biology 259.) CSU/UC

**ETHNIC STUDIES (ETHN)****ETHN 101 (C-ID SJS 110)****Introduction to Ethnic Studies**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course serves to broaden the ethnic and racial perspective of students interested in American culture and society. It encompasses an historical overview of the social, cultural, political, and economic aspects of four ethnic groups -- Native Americans, African Americans, Chicana/o/@/x/e, and Asian Americans -- in the United States. Emphasis is placed on the historical and contemporary relationships of these groups with each other and the rest of American society. Duplicate credit not granted for ETHN 101H. CSU/UC

**ETHN 101H (C-ID SJS 110)****Honors Introduction to Ethnic Studies**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

This course serves to broaden the ethnic and racial perspective of students interested in American culture and society. It encompasses an historical overview of the social, cultural, political, and economic aspects of four ethnic groups -- Native Americans, African Americans, Chicana/o/@/x/e, and Asian Americans -- in the United States. Emphasis is placed on the historical and contemporary relationships of these groups with each other and the rest of American society. CSU/UC

**ETHN 102****The Borderlands: Cultural Context and Intercultural Relations**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Analysis of the U.S.-Mexico border region: geographic, historic, and artistic significance. Discussions of "borders" in international, regional, community, and personal contexts, as they concern intercultural relations. Attention given to the cultural interactions of African American, Asian American, Chicana/o/@/x/e, Latina/o/@/x/e, and Native American ethnic groups within mainstream U.S. society. Duplicate credit not granted for ETHN 102H. CSU/UC

**ETHN 102H****Honors the Borderlands: Cultural Context and Intercultural Relations**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

Analysis of the U.S.-Mexico border region: geographic, historic, and artistic significance. Discussions of "borders" in international, regional, community, and personal contexts, as they concern intercultural relations. Attention given to the cultural interactions of African American, Asian American, Chicana/o/@/x/e, Latina/o/@/x/e, and Native American ethnic groups within mainstream U.S. society. CSU/ UC

**FASHION DESIGN MERCHANDISING (FDM)****FDM 005****Fashion Laboratory**

Unit(s): 0.5-3.0 Class Hours: 27.0-162.0 Lab total.

Supervised use of the fashion laboratory. Lab hours verified by sign-in. Twenty-four hours laboratory per 0.5 units. Not applicable to associate degree.

**FDM 005A****Computer Fashion Laboratory**

Unit(s): 0.5-1.5 Class Hours: 27.0-81.0 Lab total.

Corequisite: FDM 080, or FDM 081, or FDM 111A, or FDM 111B, or FDM 111C, or FDM 140, or FDM 213, or FDM 215, or FDM 216.

Advanced level of supervised use of the computer fashion laboratory. Lab hours verified by sign-in. Twenty-four hours laboratory per 0.5 units. Not applicable to associate degree.

**FDM 052****Knit and Swim Suit Sewing**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Construction techniques to sew lingerie, bathing suits, athletic attire, and knit t-shirts. Emphasis is placed on serger and cover-stitch machine operation, fitting issues, and garment specification measurement techniques as related to knit garments for domestic and offshore production.

**FDM 053****Introduction to Sewing**

Unit(s): 2.5 Class Hours: 36.0 Lecture, 27.0 Lab total.

Basics in sewing; how to use the sewing machine, understanding pattern terms and tools and constructing basic samples, skirts, and shirts.

**FDM 055****Children's Clothing**

Unit(s): 2.0 Class Hours: 27.0 Lecture, 27.0 Lab total.

Quick basic sewing techniques. Emphasis on individualizing designs to create a variety of functional, durable children's garments.

**FDM 056****Basic Sewing and Alternations**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Basic sewing techniques used in the restyling and alteration of ready-made garments. Evaluation of fit and determination of appropriate styling changes emphasized.

**FDM 057****Patterns for Dressmakers**

Unit(s): 3.5 Class Hours: 54.0 Lecture, 36.0 Lab total.

Recommended Preparation: FDM 105A, and FDM 105B.

Basic flat pattern methods for designing original patterns and altering designs of commercial patterns for dressmakers. Students will construct their designed garments.

**FDM 058****Decorative Apparel**

Unit(s): 0.5 Class Hours: 9.0 Lecture, 9.0 Lab total.

Application techniques of sewing embellishments on surface textures and patterns in creating ethnic inspired apparel designs.

**FDM 059****Fashion Modeling**

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Modeling techniques of the formal fashion runway and informal showings, stressing preparation of the professional model.

**FDM 080****Embroidery**

Unit(s): 1.5 Class Hours: 18.0 Lecture, 27.0 Lab total.

Applied techniques of embroidered decorative embellishments of surface textures and patterns in creating apparel designs. Incorporation of embroidery software and machinery.

**FDM 081****Fabric Printing**

Unit(s): 1.5 Class Hours: 18.0 Lecture, 27.0 Lab total.

Application techniques of surface textures and patterns using screen printing techniques. Course includes digital application of artwork and preparation for printing.

**FDM 100****Introduction to the Fashion Industry**

*Formerly: Introduction to Fashion*

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduction to the development, structure, and interrelationship of the global fashion industry, including: Consumer characteristics, product design, textile and apparel production, retail merchandising, brand marketing, distribution, and promotion. An introduction to apparel business organizations, their commercial processes and career opportunities. Oral, written, and multimedia reports on current topics relevant to the fashion industry. CSU

**FDM 101****Buying and Merchandising**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Planning, purchasing, buying, and merchandising techniques of the apparel industry's wholesale to retail markets. Course covers ecommerce and brick and mortar stores. Includes research methods to create buying plans to satisfy consumer demands while aligning revenue and inventory requirements. Develop assortment planning, inventory management, and excel template creation. Identify SKU level demand analysis, inventory level evaluations, open to buy monitoring, and sales forecasting processes. CSU

**FDM 102****Promotion and Coordination**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A study of the directing and coordination of event promotions. Emphasis on promotion planning and presentation, salesmanship, and event production. CSU

**FDM 103****Fashion Selection**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Apparel selection based on historical perspective, culture, and fashion trends. This course will examine the interrelatedness of socio-psychological, economic and political/ religious influences on dress. Included is the analysis of color, line, and design as they relate to garment selection and wardrobe planning. Cross-cultural analysis and interpretation of Western and non-Western clothing behavior through written analysis papers. The fashion professional uses this information to better design, produce, and select products to meet the needs of a culturally diverse consuming population. CSU

**FDM 104****Textile Fibers and Fabrics**

Unit(s): 3.0 Class Hours: 54.0 Lecture, 18.0 Lab total.

This course is a study of textile fibers and fabrics, their production/development, environmental impact, selection, use and care of wearing apparel and home furnishings. The course also covers current and future textile production and how appropriate performance characteristics are incorporated into materials and products. CSU/UC

**FDM 105A****Beginning Sewing**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Apparel garment construction techniques including seam finishes, edge finishes, manipulating garment fullness, and applying closures. Students will construct three full sized garments and a compilation of construction techniques. Students will conduct and document garment fittings, alter patterns, and apply fitting alterations to the sewn projects. CSU

**FDM 105B****Intermediate Sewing**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Follow-up of Fashion Design Merchandising 053 and 105A, Beginning Sewing. Coordination of woven fabrics and pattern fitting in construction of class projects such as pants, dress shirts, and unlined jackets. CSU

**FDM 106****Advanced Sewing**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Recommended Preparation: FDM 105A.

Advanced clothing construction techniques appropriate for creating custom garments. Emphasis is placed on working with designer patterns, complex contemporary fabrics, couture sewing techniques, and embellishment techniques. Embellishment techniques include tambour beading, sequins, and heirloom techniques. Projects include a custom formal occasion garment, an heirloom embellishment, and a collection of hand sewn samples. CSU

**FDM 107****Custom Tailoring**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Advanced sewing students will apply traditional tailoring techniques in completing a lined suit or coat, including hand pad stitching and edge taping. CSU

**FDM 108**

**RTW Apparel Quality and Construction Analysis**

*Formerly: RTW Quality Analysis*

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An analysis of ready-to-wear apparel for quality evaluation of materials, construction, design, fit, care, and pricing related to consumer buying expectations. Introduction and application of garment industry manufacturing processes using production equipment to mass produce consumer products. Includes Enterprise Resource Planning (ERP), retail math, and Product Data Management (PDM) training. Students will learn how to take design concepts through the sourcing, costing, and production process to create a specifications/technical package. Includes concepts of sizing and principles of fit. CSU

**FDM 109**

**Flat Pattern Techniques**

Unit(s): 3.5 Class Hours: 54.0 Lecture, 27.0 Lab total.

Recommended Preparation: FDM 105A.

Students will learn to use flat pattern basic block for pivoting and spreading methods to transfer trade sketches into first pattern outfits and dresses. Students will be required to sew their sample garments. CSU

**FDM 111A**

**Fashion Illustration Techniques**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Application of the basic techniques of drawing fashion and garment trade sketches. Students will use current fashion industry design software along with pencils and markers. CSU

**FDM 111B**

**Fashion Illustration**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

*Prerequisite: FDM 111A with a minimum grade of C.*

Further fashion illustration techniques including color media, camera ready skills, and design of layouts. Focus on Croquis Development and alternative customers including children, maternity, men, and plus size. CSU

**FDM 111C**

**Fashion Portfolio Development**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

*Prerequisite: FDM 111A with a minimum grade of C.*

Advanced sketching course to create a cohesive fashion design or merchandising portfolio for job interview presentation. Focus on appropriate formats, design concepts, fabric rendering techniques, fashion figure proportions, flat technical drawings, and scholarship entries. CSU

**FDM 112**

**Advanced Flat Pattern Making**

Unit(s): 3.0 Class Hours: 45.0 Lecture, 45.0 Lab total.

Flat pattern drafting techniques applied to completing basic blocks and first patterns for pants and lined blazers/coats. Students are required to sew their sample garments. CSU

**FDM 113**

**Fashion Draping**

Unit(s): 3.5 Class Hours: 54.0 Lecture, 36.0 Lab total.

Recommended Preparation: FDM 105A.

Basic techniques of draping flat fabric into three dimensional garment styles on the dress form to create first patterns. Students are required to sew their sample garments. CSU

**FDM 125**

**Display Merchandising**

Unit(s): 3.0 Class Hours: 54.0 Lecture, 18.0 Lab total.

Visual merchandise techniques and material in relation to the elements and principles of design and how it relates to the retail environment. CSU

**FDM 136 (C-ID THTR 174)**

**Fundamentals of Costume Design**

Unit(s): 3.0 Class Hours: 54.0 Lecture, 18.0 Lab total.

The study of costume history, design, and basic construction techniques as an introduction to basic theatrical costuming. Fabrics and their various uses will be investigated. (Same as THEA 136). CSU/UC

**FDM 140**

**Fashion E-Commerce**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Learn how to create and manage an E-commerce store. Study of the operations of an established fashion E-Commerce retail business. Concepts of merchandising include buying, pricing, stock control, credit, credit control, omni-channel strategies, logistics, layout, customer service, marketing, and analytical software. (Same as Entrepreneurship 140 Fashion E-Commerce.) CSU

**FDM 212**

**Advanced Draping**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

*Prerequisite: FDM 113 with a minimum grade of C.*

Fashion design draping techniques further practiced in woven, knits, and motif fabrics in designing a line grouping. CSU

**FDM 213**

**Apparel Line Production**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite: FDM 100 or FDM 108 and FDM 109 and FDM 111A with a minimum grade of C.*

Instruction on designing a fashion line using industry production techniques and equipment. Techniques include computer sketching, computer pattern drafting, and garment construction. CSU

**FDM 214**

**Tech-Packs for Manufactured Apparel**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: FDM 111A.

Introduction and application of garment industry manufacturing processes using production equipment to mass produce consumer products. Includes Enterprise Resource Planning (ERP), retail math, and Product Data Management (PDM) training. Students will learn how to take design concepts through the sourcing, costing, and production process. CSU

**FDM 215**

**Computer Fashion Illustration**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Recommended Preparation: FDM 111A.

Computerized fashion illustration is taught using computer software. Software programs include Adobe Illustrator, Photoshop, InDesign, and embroidery software. Student needs to know how to manually draw trade flats and posed figures prior to enrolling. CSU

**FDM 216****Computerized Garment Pattern Drafting**

*Formerly: Computer Flat Pattern Design, Grading, and Marking*

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Recommended Preparation: FDM 109.

Computerized apparel pattern drafting is taught using Tuka Tech 2D and 3D design software as tools. Students will create original garment designs, draft the patterns on the computer, and virtually sew them up on the 3D software using an avatar fit model to create a sample line video. Instruction also includes pattern size grading, and marking. Prior to enrollment, students must be able to manually draft patterns, grade patterns, and sew. CSU

**FDM 299****Cooperative Work Experience Education**

Unit(s): 1.0-6.0 Class Hours: 60.0-450.0 Lab total.

Recommended Preparation: 12 units of Fashion Design Merchandising courses completed with C or better.

This work experience course of supervised employment is designed to assist students to acquire career awareness, work habits, attitudes and skills related to the student's college major. Credit may be accrued at the rate of one to six units per semester. One unit of course credit equals 75 hours of paid work or 60 hours of un-paid work. Student repetition up to 16 units is permissible per Title 5, Section 55253. CSU

**FIRE ACADEMY (FAC)****FAC 007****Strength and Conditioning for the Fire Service**

Unit(s): 2.5 Class Hours: 8.0 Lecture, 96.0 Lab total.

Corequisite: Concurrent enrollment in FAC 050 or FAC 060.

Strength and conditioning course for students preparing for a career in the Fire Service. Emphasis will be placed on metabolic conditioning and strength development to meet the demand of fireground activities, attaining fireground movement competency and to obtain a passing score on the Physical Ability Test (PAT).

**FAC 008****Biddle Physical Ability Test (PAT)**

Unit(s): 0.1 Class Hours: 2.0 Lecture, 2.0 Lab total.

The Los Angeles County and Orange County Fire Chief's Physical Ability Test is designed to examine the physical ability of the individual when it comes to performing the functions or tasks of a Firefighter.

**FAC 017****Physical Ability Instructor**

Unit(s): 0.1 Class Hours: 2.0 Lecture, 2.0 Lab total.

Designed to train instructors to administer the Biddle Physical Ability Test and to evaluate instructors' ability to administer the physical ability test.

**FAC 018A****Firefighter I Physical Ability Practice (Exam)**

Unit(s): 0.1-0.3 Class Hours: 5.0-16.0 Lab total.

Training designed specifically for the fire service and those interested in entering the fire service. May not be used to obtain eligibility for the basic fire academy.

**FAC 018B****Beginning Fire Physical Ability Training**

Unit(s): 0.1-0.5 Class Hours: 5.0-32.0 Lab total.

Students will be introduced to the events of the "Biddle" Fire Fighter Physical Ability Test (Fire Academy 008). This is a supplemental learning assistance course designed to prepare the student for participation and successful completion of FAC 008. Students will perform physical exercise using fire hose, ladders, stairs, TRX, kettlebells and other equipment.

Students will learn proper body mechanics; correct lifting techniques and appropriate physical conditioning principles.

**FAC 018C****Intermediate Fire Physical Ability Training**

Unit(s): 0.1-0.5 Class Hours: 5.0-32.0 Lab total.

Students will practice the individual events of the "Biddle" Fire Fighter Physical Ability Test (Fire Academy 008). This is a supplemental learning assistance course designed to prepare the student for participation and successful completion of FAC 008. Students will perform physical exercise using fire hose, ladders, stairs, TRX, kettlebells and other equipment.

Students will learn proper body mechanics; correct lifting techniques and appropriate physical conditioning principles.

**FAC 018D****Advanced Fire Physical Ability Training**

Unit(s): 0.1-0.5 Class Hours: 5.0-32.0 Lab total.

Students will practice and condition for successful completion of the "Biddle" Fire Fighter Physical Ability Test (Fire Academy 008). This is a supplemental learning assistance course designed to prepare the student for participation and successful completion of FAC 008. Students will perform physical exercise using fire hose, ladders, stairs, TRX, kettlebells and other equipment. Students will learn proper body mechanics; correct lifting techniques and appropriate physical conditioning principles.

**FAC 028****Physical Training for Fireground Operations**

Unit(s): 1.0-2.5 Class Hours: 8.0 Lecture, 24.0-96.0 Lab total.

*Prerequisite: Students must provide their own personal protective equipment and tools that meet current NFPA requirements and completion of an approved Fire Academy or signed statement by the agency's Fire Chief or designee stating the sponsored student is eligible to complete the training requirements for FFI.*

Physical training course will provide an intense hands-on approach to fireground movement and energy system specificity. Focus will be on skill competency, an understanding of performance enhancement and injury prevention practices. Students will gain knowledge of proper training practices through lecture and participation in physical training designed to overload, progress, and decrease reversibility in an effective and safe manner.

**FAC 029****Public Safety Wellness and Fitness- Operation and Safety Training**

Unit(s): 2.0 Class Hours: 8.0 Lecture, 95.0 Lab total.

Occupation specific wellness and fitness principles to prepare those who respond to emergencies, accidents, local and national disasters and terrorist attacks. Physical fitness concepts and activities prepare the student for any threat whether physical, environmental or psychological. Individualized fitness assessment, fitness profile and exercise prescription provided.

**FAC 031**

**Fire Specialist Academy, Vehicle Rescue and Extrication**

Unit(s): 0.5 Class Hours: 8.0 Lecture, 8.0 Lab total.

A course in rescue incident management and includes police coordination/cooperation, assessment, triage, extrication, field equipment, and stabilization. Not offered every semester.

**FAC 035**

**Confined Space Rescue Technician**

Unit(s): 1.0 Class Hours: 10.0 Lecture, 30.0 Lab total.

*Prerequisite: Confined Space Awareness. Student must bring Confined Space Awareness certificate of completion to first class meeting or they be dropped from the class.*

This course is designed for all emergency personnel with confined spaces within their jurisdiction. This course is an intensive hands-on training program that will prepare the student to respond to confined space emergencies. This course of instruction prepares the student in identifying confined spaces and permit-required confined spaces, the hazards associated with permit required confined spaces, target industries and hazards, state and federal regulations, components of a rescue operation, and the roles and responsibilities of the rescue team. Meets CFSTES requirements for professional certification. Additional materials fee may be required for state course completion certificate. This course is limited to 36 students. Not offered every semester.

**FAC 041A**

**Reserve Firefighter Academy**

Unit(s): 9.0 Class Hours: 144.0 Lecture, 22.0 Lab total.

Basic and predictable level of knowledge, skills, and ability among those individuals destined for assignment to a wildland fire crew. Includes EMS and Hazmat First Responder. Meets minimum departmental requirements for safety. Additional materials fees may apply. Not offered every semester.

**FAC 050**

**Fire Suppression Training Academy**

Unit(s): 22.5 Class Hours: 266.0 Lecture, 294.0 Lab total.

Corequisite: Concurrent enrollment in FAC 007. Medical exam in accordance with NFPA 1582 and FAC 008.

Basic and predictable level of knowledge, skills, and ability among those individuals destined for assignment to a wildland fire crew. Includes EMS and Hazmat First Responder. Meets minimum departmental requirements for safety. Does not meet requirements of OCFCA or California State Firefighter I criteria. Additional materials fees may apply. Not offered every semester.

**FAC 060A**

**Basic Fire Academy- Fire Fighter 1A Structure**

*Formerly: 060 Basic Fire Academy*

Unit(s): 10.0 Class Hours: 84.0 Lecture, 288.0 Lab total.

*Prerequisite: FTC 101 and FTC 102 and FTC 103 and FTC 104 and FTC 105 and FTC 106 and FTC 121 and FTC 121L and FAC 008 with a minimum grade of C.*

Corequisite: FAC 007

Other: Current CPR Healthcare Provider certification or equivalent; Possession of current NREMT (National Registry Emergency Medical Technician) Certification; NFPA 1582 Medical Clearance dated within two years of the course start date; Fire Technology Department approval.

This course provides the first level of professional training needed to obtain California Fire Fighter 1 (2019) certification. Students will learn the skills and knowledge needed for the entry-level fire fighter to perform structural suppression activities. Key learning concepts include: firefighter safety; communications; cleaning, maintaining, and utilizing equipment and tools; building construction and fire behavior; water supply; ladder operations; forcing entry into a structure; conducting search and rescue operations; attacking an interior structure fire; horizontal and vertical ventilation; property conservation; fire scene overhaul; fire fighter survival; and fire suppression with Class A materials, vehicles, and ground cover. Students are required to complete all applicable certification exams. All Fire Fighter 1 (2019) cognitive exam modules will be delivered through the State Fire Training User Portal. State Fire Training will issue IFSAC and Pro Board accredited certifications to all eligible applicants for California Fire Fighter 1 (2019) certification. Material fees required. Students must rent approved turn-outs and other personal protective equipment from designated vendor. Departmental approval required for enrollment.

**FAC 060B**

**Firefighter 1B - Hazardous Materials / WMD**

Unit(s): 1.0 Class Hours: 18.0, 8.0 Lab total.

This course provides the awareness skills and knowledge needed for the entry-level firefighter to recognize and identify hazardous materials and weapons of mass destruction (WMD), isolate hazards and deny entry, and initiate required notification. At the operations level, this course provides the skills and knowledge needed to identify incident scope; select, use, and inspect PPE; perform emergency decontamination; perform assigned tasks at a hazardous materials/ WMD incident including product control techniques; and evaluate and report incident progress (2019). A California Firefighter 1 certification contains three levels of Professional Qualifications set by the National Fire Protection Association (NFPA). FF 1B includes the second level of professional qualifications: NFPA 1072: Hazardous Material Awareness and Operations. Material fees required.

**FAC 060C****Firefighter 1C - Wildland Firefighter 1**

Unit(s): 2.0 Class Hours: 30.0, 34.0 Lab total.

Corequisite: FAC 060A

This course provides the skills and knowledge needed for the entry-level firefighter to recognize hazards and unsafe situations; don, doff, and maintain wild and personal protective equipment; deploy a fire shelter; maintain suppression hand tools and equipment; assemble and prepare for response; construct and secure a fire line; reduce the threat of fire exposure to improved properties; and mop up and patrol a fire area when working with wild land fires. Firefighter 1C, Wildland Course Plan (2016) A California Firefighter 1 certification contains three levels of Professional Qualifications set by the National Fire Protection Association (NFPA). FF1C includes the third level of professional qualifications: NFPA 1051: Wildland Firefighter 1. Material fees required. Students must rent approved turn-outs and other personal protective equipment from designated vendor. Departmental approval required for enrollment.

**FAC 062****Basic Incident Command Systems**

Unit(s): 0.3 Class Hours: 16.0 Lab total.

Basic principles of command, knowledge, and skills common to all positions in the Incident Command System.

**FAC 062A****Strike Team Leader Orientation (ICS)**

Unit(s): 0.5 Class Hours: 8.0 Lecture total.

State Office of Emergency Service procedures for fire departments assigned to OES when

responding to a mutual aid incident.

**FAC 063****Rescue Systems 1: Basic Rescue Skills**

Unit(s): 0.5 Class Hours: 40.0 Lab total.

*Prerequisite: FAC 060 Basic Fire Academy or equivalent training as determined by the Dean of Instruction of the Fire Academy. Student must provide proof of training at the first class meeting or be dropped from the course.*

Recommended Preparation: Completion of Low Angle Rope Rescue: Operational.

Designed for all emergency response personnel. Key topics include: Team organization, rescue, and environmental considerations, use of ropes, knots rigging and pulley systems, descending, rappelling, and belaying tools and techniques, subsurface rescue techniques, use of cribbing, wedges, cutting/prying and hydraulic tools, use of fire service ladders in specialized rescue situations, and day and night simulated rescue exercises. Additional materials fees may be required. Not offered every semester.

**FAC 070****Firefighter I Certification Refresher**

Unit(s): 1.0 Class Hours: 4.0 Lecture, 48.0 Lab total.

*Prerequisite: Completion of a Firefighter I academy and applying for certification testing or a signed statement by the agency's Fire Chief or designee stating the sponsored student has completed all SFT training requirements and skills sheets for Firefighter-1 or documentation of approval from the California State Fire Training for a certification retest.*

Prepares students to meet the State Fire Training (SFT) requirements for Firefighter I (FFI) including the capstone knowledge and skills necessary to pass FFI testing. Upon successful completion, students receive a pass letter from SFT and a FFI pass certificate from the college. Additional materials fees required. May not be offered every semester.

**FAC 071A****Ventilation Review**

Unit(s): 0.5 Class Hours: 8.0 Lecture, 8.0 Lab total.

Theory of positive pressure ventilation and panelized roofs; student will participate in walking, sounding, and cutting panelized roofs.

**FAC 072****Emergency Trench Shoring**

Unit(s): 0.5 Class Hours: 8.0 Lecture, 8.0 Lab total.

*Prerequisite: Completion of an accredited Firefighter I fire academy or equivalent training as determined by the Dean of Instruction for the Fire Academy. Must bring certificate of completion to first class meeting or be dropped from the course and completion of Rescue Systems I course. Students must bring certificate of completion to the first class or be dropped from the course or a letter from the Fire Chief (or designee) stating the sponsored student has successfully completed the equivalent training.*

This course provides an update for first responders in emergency trench operations. Includes general safety and OSHA regulations relative to open trenches or excavations in potentially hazardous situations.

**FAC 076****Low Angle Rope Rescue Operational**

Unit(s): 1.0 Class Hours: 12.0 Lecture, 12.0-20.0 Lab total.

*The Low Angle Rope Rescue Operational course is designed to provide training for responders in low angle rope rescue operations. These over-the-side operations may be the result of a vehicle accident, hiking mishap, swift water rescue, or search and rescue function in an urban or remote area. This course will also provide training in a subject element required for the California Urban Search and Rescue (US&R) Basic and Light Operational Level by serving as the prerequisite training for students wishing to continue training in a Rescue Systems 1 course. Additional materials fees may be required for state training course completion certificate. Not offered every semester.*

**FAC 076A****High Angle Rope Rescue**

Unit(s): 1.0 Class Hours: 12.0 Lecture, 12.0 Lab total.

Designed to equip the students with information, techniques, and methods for utilizing rope, webbing, hardware, friction devices, and stretchers in high angle/high rise rope rescue situations. Additional materials fees may be required. Not offered every semester.

**FAC 079A****S-339 Division/Group Supervisor- ALL RISK**

Unit(s): 0.5 Class Hours: 4.0 Lecture, 16.0 Lab total.

*Prerequisite: ICS-300, Intermediate I.C.S. Students must bring certificate of completion to first class meeting or be dropped from the course and qualified as a Task Force Leader (TFLD) or Incident Commander Type 3 (ICT3) or Incident Commander Type 4 (ICT4) and in any two Strike Team Leader positions – one must be STCR or STEN. Students must bring evidence to first class meeting or be dropped from the course.*

*This course prepares students to perform in the role of division/group supervisor during wildland fire operations. It provides instruction in support of the specific tasks of the division/ group supervisor, but will not instruct students in general management/supervision or in the incident command system (ICS), both of which the student should learn through prerequisite work. Topics include division/ group management, organizational interaction, division operations, all-hazard operations, and tactical decision games. There is a final examination in this course. May require additional material fees. Not offered every semester.*

**FAC 079B****S-330 Task Force-Strike Leader**

Unit(s): 0.5 Class Hours: 2.0 Lecture, 22.0 Lab total.

*Prerequisite: Qualified as any single resource boss. Must bring evidence to first class session or be dropped from the course and successful completion of the pre-course work and satisfactory completion of pre-selection assessment.*

This course is designed to meet the training requirements outlined in the PMS 310-1, Wildland Fire Qualification System Guide and the position task books developed for the positions of task force leader and strike team leader. Most examples and exercises in this course are specific to wildland fire suppression, although some all-hazards exercises are included.

**FAC 079D****S-440 Planning Section Chief**

Unit(s): 0.5 Class Hours: 4.0 Lecture, 16.0 Lab total

*Prerequisite: Students must be qualified as a Situation Unit Leader (SITL). Students must bring evidence to the first class meeting or be dropped from the class. Students must be qualified as a Resources Unit Leader (RESL). Students must bring evidence to the first class meeting or be dropped from the class and successful completion of pre-course work.*

Designed to meet a portion of the training needs of the Planning Section Chief Type 2 for wildland fire operations. Topics include information gathering, strategies, meetings and briefings, incident action plans (IAP), interactions, forms, documents, supplies, demobilization, and an optional technology section. In the final exercise, the students observe a simulated planning meeting and use the information derived to find errors in an IAP. Additional fees may be required. Not offered every semester.

**FAC 080B****S-190 Introduction to Wildland Fire Behavior**

Unit(s): 0.3 Class Hours: 4.0 Lecture, 4.0 Lab total.

This course provides instruction in the primary factors affecting the start and spread of wildfire and recognition of potentially hazardous situations. S-190 is typically taught in conjunction with or prior to Basic Fire Fighter Training, S-130. It is designed to meet the fire behavior training needs of a Fire Fighter Type 2 (FFT2) on an incident as outlined in the PMS 310-1, Wildland Fire Qualification System

Guide and the position task book developed for the position.

**FAC 080D****S-290 Intermediate Wildland Fire Behavior**

Unit(s): 0.5 Class Hours: 32.0 Lab total.

*Prerequisite: S-190 Certification. Students are required to bring a copy of their S-190 certificate to the first class session or they will be dropped from the course.*

This is a classroom-based skills course designed to prepare the prospective fireline supervisor to undertake safe and effective fire management operations. It is the second course in a series that collectively serves to develop fire behavior prediction knowledge and skills. Fire environment differences are discussed.

**FAC 083****Hazardous Materials First Responder: Awareness Level**

Unit(s): 0.1 Class Hours: 8.0 Lab total.

The purpose of this course is to provide participants who are likely first responders with an improved capability to respond to Haz Mat events in a safe and competent manner, within the typical resource and capability limitations at the "Awareness" Level. Meets the requirements of CFR 29 1910.120 and CCR Title 8, and satisfies the requirements for Fire Inspector I certification through both State Fire Training and the International Code Council.

Additional material fees may be required. Not offered every semester. (Pass/No Pass Only)

**FAC 084****Hazardous Materials First Responder Operational Level**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 6.0 Lab total.

This class is designed for fire department personnel who may respond to releases or potential releases of hazardous materials as part of the initial response to the site for the purpose of protecting nearby persons, property, or the environment from the effects of the release. Defensive tactics to contain the release from a safe distance, keep it from spreading, and prevent exposures without trying to stop the release. Meets and exceeds the requirements of CFR 29 1910.120 and CCR Title 8. This course may require additional materials fees for state course completion certificate. This course is limited to 40 students. May not be offered every semester.

**FAC 084A****Hazardous Materials First Responder Operational, Decontamination**

Unit(s): 0.3 Class Hours: 4.0 Lecture, 4.0 Lab total.

Recommended Preparation: Trained to Hazardous Materials First Responder Operational Level.

This course is designed for hazardous material emergency response personnel. This course will provide the haz mat emergency responder with the processes used in decontamination and methods to limit the spread of hazardous materials contamination in a safe and competent manner. Additional materials fees may be required for state certificate of completion. Not offered every semester.

**FIRE OFFICER TRAINING (FOT)****FOT 008A****S-339 Division/Group Supervisor All Risk**

Unit(s): 0.5 Class Hours: 24.0 Lab total.

*Prerequisite: I-300 Intermediate ICS. Bring course completion certificate to first class session and I-400 Advanced ICS. Students must bring course completion certificate to first class session and satisfactory completion of pre-course work*

Recommended Preparation: Qualified as a Task Force Leader (TFLD) or Incident Commander Type 3 (ICT3) or Incident Commander Type 4 (ICT4) and in any two Strike Team Leader positions – one must be STCR or STEN.

*This course prepares students to perform in the role of division/group supervisor. It provides instruction in support of the specific tasks of the division/group supervisor, but will not instruct the student in general management/supervision or in the incident command system (ICS), both of which the student should learn through prerequisite work. Topics include division/group management, organizational interaction, division operations, all-hazard operations, and tactical decision games. There is a final examination in this course. Additional materials fee required for State Fire Training Course Completion Certificate.*

**FOT 008E****S-445 Incident Training Specialist**

Unit(s): 0.3 Class Hours: 16.0 Lab total.

Designated to train personnel to perform the duties of a Training Specialist. Duties include coordinating incident training opportunities and activities, ensuring the quality of training assignments, and completing documentation of the incident training. Additional course fees required for State Fire Training Certificate of Completion.

**FOT 017****Fire Control 5**

Unit(s): 0.5 Class Hours: 15.0 Lecture, 9.0 Lab total.

Designed to familiarize students with the different types of helicopter and aircraft rescues. Personal safety and rescue equipment will be demonstrated. The human factors and stress involved with aircraft rescue will be discussed.

**FOT 032****ICS-300 Intermediate ICS**

Unit(s): 0.5 Class Hours: 24.0 Lab total.

Recommended Preparation: ICS 200- Students must bring copy of certificate of completion to first class session or they will be dropped from the course

This course provides description and detail of the Incident Command System (ICS) organization and operations in supervisory roles on expanding or Type 3 incidents. Topics include: ICS fundamentals review, incident/ event assessment and agency guidance in establishing incident objectives, Unified Command, incident resource management, planning process, demobilization, transfer of command, and close out. This course is designed For: Type 3 Incident Management Team (IMT) candidates, incident middle management (Unit Leaders, Division/Group Supervisors, and Strike Team Leaders), elected officials, line officers, lead dispatchers, Multi- agency Coordination (MAC) members, director heads (public works director, fire chief, sheriff), emergency managers, and agency representatives.

**FOT 033****ICS-400 Incident Command**

Unit(s): 0.5 Class Hours: 24.0 Lab total.

*Prerequisite: ICS-300, Intermediate ICS with a pass. Students must bring documentation of prerequisites to first class meeting. Failure to comply will result in student being dropped.*

This course directs the student towards an operational understanding of large single- agency and complex multi-agency/multi- jurisdictional incident responses. Topics include fundamentals review for command and general staff, major and /or complex incident/even management, area command and multi-agency coordination.

**FOT 035****Auto Extrication**

Unit(s): 0.3-0.5 Class Hours: 16.0-24.0 Lab total.

Provides hands-on experience in the procedures and systems utilized during an automobile extrication. Subjects covered include: auto extrication, types of hand and power tools, removing windows, opening doors, removing roofs, pulling steering wheels, moving foot pedals, raising dashboards, pulling seats, stabilization of vehicles, and simulated rescues of trapped victims.

**FOT 044****Fire Investigation 1A: Fire Origin and Cause Determination**

Unit(s): 0.5 Class Hours: 40.0 Lab total.

This course provides the participants with an introduction and basic overview of fire scene investigation. The focus of the course is to provide information on fire scene indicators and to determine the fire's origin. Additional fee required for OSFM Certificate of Completion.

**FOT 045****Fire Investigation 1B: Techniques of Fire Investigation**

Unit(s): 0.5 Class Hours: 40.0 Lab total.

*Prerequisite: Prerequisite OSFM - Investigation 1A with a grade of B or better. Students must bring documentation of prerequisites to first class meeting; failure to comply will result in student being dropped.*

This course provides a deeper understanding of fire investigation and builds on Fire Investigation 1A. Topics include the juvenile fire setter, report writing, evidence preservation and collection, interview techniques, motives, and fire fatalities.

**FOT 050****Community Emergency Response Team**

Unit(s): 0.2-0.5 Class Hours: 10.0-30.0 Lab total.

Educating the public to respond to terrorism response issues, theories, and methodologies for disaster mitigation.



**FOT 060****Fire Apparatus Driver/Operator 1A: Driver/Operator**

Unit(s): 0.5 Class Hours: 40.0 Lab total.

*Prerequisite: Hold a valid Class C driver's license. License must be brought to first class session or student will be dropped from the course*

This course provides information on fire apparatus preventive maintenance and driving/ operating. Topics include routine tests, inspections, and servicing functions, operate, back, maneuver, and turn a fire apparatus in a variety of conditions; and operate all fixed systems and equipment on a fire apparatus. This course is based on the 2014 edition of NFPA 1002 Standard for Fire Apparatus Driver/ Operator Professional Qualifications. This course fulfills the requirements for a California Class C Firefighter Endorsement. This course satisfies the partial requirements for State Fire Training Fire Apparatus Driver/Operator - Pumping Apparatus (2015) certification. A materials fee may be required. This course may not be offered every semester.

**FOT 061****Fire Apparatus Driver/Operator 1B: Pumping Apparatus Operations**

Unit(s): 0.5 Class Hours: 40.0 Lab total.

*Prerequisite: Hold a valid Class C Firefighter Endorsed driver's license (minimum). License must be brought to first class session or student shall be dropped from the course and Fire Apparatus Driver/Operator 1A (2008 or 2015 version). Certificate of completion must be brought to first class session or student shall be dropped from the course and completion of an accredited basic fire academy or equivalent as determined by the Associate Dean of Fire Technology prior to the start of the course. Students seeking to enter this course with equivalent training may be required to demonstrate knowledge of the following topics prior to the start of the course: Describe or explain: Fire hydrant operations; Suitable static water supply sources; Procedures and protocols for connecting to various water sources; Methods to fully open and close the hydrant; Principles of fire streams; flow capabilities of nozzles; Fittings, tools, and appliances; Open, close, and adjust nozzle flow and patterns; Prevent water hammer when shutting down nozzles; Hand lay a supply hose; Connect a supply hose to a hydrant; Make hydrant-to-engine hose connections for forward and reverse lays; Replace coupling gaskets; Mark defective hose NOTE: Approval of equivalent training is not a guarantee that state or licensing agencies will also grant equivalency.*

This course provides information on pumping apparatus preventive maintenance and operations. Topics include routine tests, inspections, and servicing functions; producing hand, master, and foam fire streams, relay pump operations; and supplying water to fire sprinkler and standpipe systems. This course is designed for career and volunteer fire service personnel who drive and operate a fire department pumping apparatus. This course is based on the 2014 edition of NFPA 1002 Standard for Fire Apparatus Driver/Operator Professional Qualifications. This course satisfies partial requirements for OSFM certification for Fire Apparatus Driver/Operator - Pumping Apparatus. Materials fee may be required. Not offered every semester.

**FOT 078****S-230 Crew Boss (Single Resource)**

Unit(s): 0.5 Class Hours: 26.0 Lab total.

*Prerequisite: Satisfactory completion of pre-course work and Qualified as firefighter type 1 (FFT1). Bring evidence of training or certification to first class session and S-290 Wildland Fire Behavior. Bring copy of course completion certificate to class.*

Designed for fire service personnel desiring to be qualified as an Engine Boss (ENGB). Training for the single resource boss position from initial dispatch through demobilization to the home unit. Topics include operational leadership, preparation and mobilization, assignment preparation, risk management, entrapment avoidance, safety and tactics, offline duties, demobilization, and post incident responsibilities. Additional materials fee required for CA State Fire Training Certificate of Completion. This course is limited to 30 students.

**FOT 078A****S-130 Firefighter Training - Wildland**

Unit(s): 0.7 Class Hours: 32.0 Lecture total.

Designed to train firefighters in the basic fire behavior factors that will aid them in safe and effective control of wildland fires.

**FOT 078B****S-215L Urban Wildland Interface Firefighting**

Unit(s): 0.7 Class Hours: 32.0 Lecture total.

S-215L Urban wildland interface firefighting is a course designed to teach fire crews the principles of backfire/burnout and the necessary firing techniques and related firing devices used to accomplish either of these suppression methods.

**FOT 078D****ICS 223-10, Wildland Line EMT**

Unit(s): 0.3 Class Hours: 18.0 Lab total.

*Prerequisite: Current California State Certification as an EMT or NREMT.*

Designed to train firefighters in preserving health and safety of suppression team members during wildland incidents and make available EMT-1 level care in the field.

**FOT 079****S-404 Safety Officer**

Unit(s): 0.5 Class Hours: 24.0 Lecture total.

Designed to train company/chief officers in the advanced wildland fire safety factors that will aid them in safe and effective control of wildland fires. Not offered every semester.

**FOT 079B****S-231 Engine Boss**

Unit(s): 0.3 Class Hours: 16.0 Lab total.

*Prerequisite: S-230 certification and qualified as a Fire Fighter Type 1 (FFT1) as per OSFM*

This is a skill course designed to produce student proficiency in the performance of the duties associated with engine boss, single resource (ENGB). Topics include engine and crew capabilities and limitations, information sources, fire size-up considerations, tactics, and wildland/urban interface.

**FOT 079C****S-330 Task Force-Strike Team Leader**

Unit(s): 0.5 Class Hours: 24.0 Lab total.

Recommended Preparation: Qualified as any single resource boss.

Designed for fire personnel qualifying within the Incident Command System as a Task Force-Strike Team Leader. Topics include Strike Team orientation, incident responsibilities, and demobilization/release.

**FOT 080****Motion Picture / Television Safety Officer**

Unit(s): 0.5 Class Hours: 24.0 Lab total.

Course is designed to prepare fire personnel in special effects, film production safety and stunt coordination, line producers, location managers and film commissioners.

**FOT 130A****Fire Inspector 1A: Duties and Administration**

Unit(s): 1.5 Class Hours: 24.0 Lecture total.

*Prerequisite: FTC 104, FTC 105 and FTC 106 with a minimum grade of C, or equivalent as determined by the Dean of academy instruction. To be successful in this course, students should be able to understand and use professional terminology; Identify laws, codes, ordinances, and regulations as they relate to fire prevention; Understand code enforcement as it impacts life and property loss; Define laws, rules, regulations, and codes and identify those relevant to fire prevention; Define the functions of a fire prevention bureau; Describe the history and philosophy of fire prevention; Describe inspection practices and procedure; Understand theoretical concepts of how fire impacts major types of building construction; Describe building construction as it relates to firefighter safety, buildings codes, fire prevention, code inspection, firefighting strategy, and tactics; Differentiate between fire resistance, flame spread, and describe the testing procedures used to establish ratings for each; Classify occupancy designations of the building code; Analyze the hazards associated with the various types of building construction; Identify and describe various types and uses of fire protection system; Explain the benefits of fire protection systems in various types of structures; Describe residential and commercial sprinkler legislation.*

This course provides a broad, technical overview of fire prevention codes and ordinances, inspection practices, and key hazards. CSU

**FOT 130B****Fire Inspector 1B: Introduction to Fire and Life Safety**

Unit(s): 1.5 Class Hours: 24.0 Lecture total.

*Prerequisite: FTC 104, FTC 105, and FTC 106 with a minimum grade of C, or equivalent as determined by the Dean of academy instruction. To be successful in this course students must be able to: Describe the basic elements of a public water supply system as it relates to fire protection; Describe the basic elements of a public water supply system including sources, distribution networks, piping and hydrants; Understand theoretical concepts of how fire impacts major types of building construction; Describe building construction as it relates to firefighter safety, buildings codes, fire prevention, code inspection, firefighting strategy, and tactics; Differentiate between fire resistance, flame spread, and describe the testing procedures used to establish ratings for each; Classify occupancy designations of the building code; Describe inspection practices and procedures and Describe the history and philosophy of fire prevention.*

Recommended Preparation: FOT 130A with a minimum grade of C.

This course will provide fire prevention professionals with the base level of knowledge necessary to inspect fire protection systems and special hazards. CSU

**FOT 130C****Fire Inspector 1C: Field Inspection**

Unit(s): 1.5 Class Hours: 24.0 Lecture total.

*Prerequisite: FTC 104, FTC 105 and FOT 106 with a minimum grade of C, or equivalent as determined by the Dean of academy instruction. To be successful in this course students must be able to: Identify and describe various types and uses of fire protection systems; Identify the different types and components of sprinkler, standpipe and foam systems; Identify the different types of non-water based fire suppression systems; Explain the basic components of a fire alarm system; Describe the hazards of smoke and list the four factors that can influence smoke movement in a building; Discuss the appropriate application of fire protection systems; Explain the operation and appropriate application for the different types of portable fire protection systems; Understand theoretical concepts of how fire impacts major types of building construction; Describe building construction as it relates to firefighter safety, buildings codes, fire prevention, code inspection, firefighting strategy, and tactics; Identify various classifications of building construction; Identify laws, codes, ordinances, and regulations as they relate to fire prevention; Define laws, rules, regulations, and codes and identify those relevant to fire prevention of the authority having jurisdiction; Understand code enforcement as it impacts life and property loss and Describe inspection practices and procedures*

Recommended Preparation: FOT 130B with a minimum grade of C.

This course provides students with a basic knowledge of field inspection roles and responsibilities of a Fire Inspector I including basic plan review, emergency access for an existing system, hazardous materials, and the operational readiness of fixed fire suppression systems, existing fire detection and alarm systems, and portable fire extinguishers. CSU

**FOT 130D****Fire Inspector 1D: Field Inspector**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

*Prerequisite: FTC 104, and FTC 105, and FTC 106 with a minimum grade of C.*

Recommended Preparation: FOT 130A with a minimum grade of C.

This course provides students with a basic knowledge of a Fire Inspector's field inspection roles and responsibilities specific to California including tents, canopies, and temporary membrane structures; fireworks and explosives; and wildland urban interface environments. Students receive a Certificate of Completion from the Office of the State Fire Marshal. Not offered every semester. Materials fee required. CSU

**FOT 136****Fire Inspector 2A: Fire Prevention Administration**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

*Prerequisite: FOT 130A, and FOT 130B, and FOT 130C, and FOT 130D with a minimum grade of C.*

This course provides students with a basic knowledge of the administrative requirements related to the roles and responsibilities of a Fire Inspector II including processing permit and plan review applications, enforcing permit regulations, investigating complex complaints, recommending modifications to codes and standards, recommending policies and procedures for inspection services, generating written appeals correspondence, initiating legal action, evaluating inspection reports, and proposing technical reference material acquisition. Additional material fee required for Ca State Fire Training certificate of completion. May not be offered every semester. CSU

**FOT 137**

**Fire Inspector 2B: Fire and Life Safety Requirements**

Unit(s): 1.5 Class Hours: 27.0 Lecture total.

Corequisite: FOT 136

This course provides students with a basic knowledge of fire and life safety requirements related to the roles and responsibilities of a Fire Inspector II including occupancy classification, egress elements, emergency plans and procedures, occupant loads, building construction and fire growth potential. Materials fee required for State Fire Training (CFSTES) Certificate of Completion. Not offered every semester. CSU

**FOT 138**

**Fire Inspector 2C: Inspecting Fire & Life Safety Systems and Equip.**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Corequisite: FOT 136.

This course provides students with a basic knowledge of inspection requirements related to the roles and responsibilities of a Fire Inspector II including inspection of life safety systems and building services equipment, fire protection systems, and emergency access criteria. Materials fees required for State Fire Training (CFSTES) Certificate of Completion. Not offered every semester. CSU

**FOT 139**

**Fire Inspector 2D: Hazardous Materials, Operations, and Processes**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Recommended Preparation: FOT 136 with a minimum grade of C.

This course provides students with a basic knowledge of hazardous materials, operations, and processes related to the roles and responsibilities of a Fire Inspector II including hazardous conditions, flammable and combustible liquids and gases, and hazardous materials. Materials fee required for State Fire Training (CFSTES) Certificate of Completion. Not offered every semester. CSU

**FOT 144**

**Fire Investigation 2A: Criminal and Legal Procedures**

Unit(s): 0.5 Class Hours: 40.0 Lab total.

*Prerequisite: Fire Investigation 1A, passed with a grade of 80% and Fire Investigation 1B, passed with a grade of 80%. Students must bring documentation of prerequisites to first class meeting. Failure to comply will result in student being dropped.*

This course provides information on conducting an explosive investigation and a surveillance operation, preparing a search warrant, testifying as an expert witness, assembling a curriculum vitae, and properly documenting a criminally caused fire. In addition, each student will be assigned to an investigative team to conduct an investigation of his/her own criminally caused fire. During this practical exercise, each team will be required to conduct the scene investigation, properly collect and document supportive evidence, prepare their written case report, and present their finding to a district attorney and a judge to review. CSU

**FOT 145**

**Fire Investigation 2B: Field Case Studies**

Unit(s): 0.5 Class Hours: 40.0 Lab total.

*Prerequisite: Fire Investigation 1-A with a grade of 80% and Fire Investigation 1-B with a grade of 80%. Students must bring documentation of prerequisites to first class meeting. Failure to comply will result in student being dropped.*

This course provides advanced instruction in fire scene investigation, case preparation, and courtroom presentation. Topics include review of fire scene photography, sketching, evidence collection, interviewing and interrogation, and extensive use of simulations for developing and presenting an arson case. CSU

**FOT 150A**

**Company Officer 2A: Human Resource Management for Company Officers**

Unit(s): 1.5 Class Hours: 16.0 Lecture, 24.0 Lab total.

*Prerequisite: FAC 060 with a minimum grade of C or equivalent.*

This course provides information on the use of human resources to accomplish assignments, evaluate member performance, supervise personnel, and integrate health and safety plans, policies, and procedures into daily activities as well as the emergency scene. Materials fee for State Fire Training Certificate. May not be offered every semester. CSU

**FOT 150B**

**Company Officer 2B: General Administration Functions for Company Officers**

Unit(s): 0.5 Class Hours: 8.0 Lecture, 12.0 Lab total.

*Prerequisite: Completion of a CA Regionally Accredited Fire Academy or A signed statement by the agency's Fire Chief or designee stating the sponsored student has completed all SFT training requirements and skills sheets for Firefighter-1 or equivalent.*

This course provides information on general administrative functions and the implementation of department policies and procedures and addresses conveying the fire department's role, image, and mission to the public. Applies to State Fire Marshal Company Officer certification. Additional materials fee required for State Certificate Fee. This class may not be offered every semester. CSU

**FOT 150C**

**Company Officer 2C: Fire Inspections and Investigations**

Unit(s): 1.5 Class Hours: 25.0 Lecture, 15.0 Lab total.

*Prerequisite: Completion of a CA Regionally Accredited Fire Academy or a signed statement by the agency's Fire Chief or designee stating the sponsored student has completed all SFT training requirements and skills sheets for Firefighter I or equivalent.*

This course provides information on conducting inspections, identifying hazards and addressing violations, performing a fire investigation to determine preliminary cause and securing the incident scene and preserving evidence. Applies to State Fire Marshal Company Officer certification. Additional materials fee required for State Certificate Fee. This class may not be offered every semester. CSU

**FOT 150D****Company Officer 2D: All-Risk Command Operations for Company Officers**

Unit(s): 1.5 Class Hours: 16.0 Lecture, 24.0 Lab total.

*Prerequisite: Completion of a CSFM (California State Fire Marshal) accredited Fire Academy or Completion of IFSAC (International Fire Service Accreditation Congress) accredited fire academy or completion of a Pro Board Fire Service Professional Qualifications System fire academy or a signed statement by the agency's Fire Chief or designee stating the sponsored student has completed all SFT training requirements and skills sheets for Firefighter-1 and ICS 200 (online certificate).*

*Recommended Preparation: Hazardous Material Incident Commander (as offered by the California Specialized Training Institute).*

This course is designed for aspiring company fire officers. Topics include: Conducting incident size-up, developing and implementing an initial plan of action for emergency incidents, pre-incident planning, and post-incident analysis. Applies to State Fire Marshal Company Officer certification. Materials fee required for State Certificate This class may not be offered every semester. CSU

**FOT 150E****Company Officer 2E: Wildland Incident Operations for Company Officers**

Unit(s): 1.5 Class Hours: 24.0 Lecture, 16.0 Lab total.

*Prerequisite: FOT 150A with a minimum grade of C, and S-290 Intermediate Fire Behavior (classroom delivery only). Students must bring proof of course completion to first class meeting or they will be dropped from the course and completion of a CA Regionally Accredited Fire Academy or a signed statement by the agency's Fire Chief or designee stating the sponsored student has completed all SFT training requirements and skills sheets for Firefighter-1 or equivalent.*

This course provides information on evaluating and reporting incident conditions, analyzing incident needs, developing and implementing a plan of action to deploy incident resources completing all operations to suppress a wildland fire, establishing an incident command post, creating an incident action plan, and completing incident records and reports. Applies to State Fire Marshal Company Officer certification. Additional materials fee required for State Certificate Fee. This class may not be offered every semester. CSU

**FOT 205****Instructor I: Instructional Methodology**

Unit(s): 1.5 Class Hours: 16.0 Lecture, 24.0 Lab total.

*Recommended Preparation: Completion of one of the following certificates is recommended: Introduction to the Incident Command System (IS-100.B), FEMA or National Incident Management System (IS-700.A), FEMA.*

Students learn to teach and deliver instruction from a prepared lesson plan utilizing instructional aids and evaluation instruments. Students will also learn to adapt a lesson plan and complete reporting requirements. Designed for: Personnel preparing for a college level fire instructor, Company Officer, or SFT Certified Training Instructor position. Applies to CSFM certification for Instructor I. Additional course material fee is required for CSFM certificate. May not be offered every semester. CSU

**FOT 206****Instructor II: Instructional Development**

Unit(s): 1.5 Class Hours: 16.0 Lecture, 24.0 Lab total.

*Prerequisite: FOT 205 with a minimum grade of C.*

This course provides the skills and knowledge needed for the intermediate level professional fire service instructor preparing for Instructor II certification. Participants will learn to develop lesson plans and evaluation instruments, teach and deliver instruction, and evaluate and coach other instructors. Additional materials fees may be required for State Fire Training Certificate. Not offered every semester. CSU

**FOT 207****Instructor III: Instructional Program Management**

Unit(s): 1.0 Class Hours: 16.0 Lecture, 20.0 Lab total

*Prerequisite: FOT 205 and FOT 206 with a minimum grade of C.*

This course provides information on planning, developing, and implementing comprehensive programs and curricula. Topics include instructional development, program management, program and instructor evaluation, and test reliability and validity. The curriculum is based on the 2012 edition of NFPA 1041 Standard for Fire Service Instructor Professional Qualifications. This course is designed for Fire Officers, Staff Officers, and other fire service managers with experience in fire-service training. CSU

**FOT 210****Community Risk Educator**

Unit(s): 1.5 Class Hours: 24.0 Lecture total.

*Prerequisite: Introduction to Incident Command System I-100 (Must bring certificate of completion to first class meeting) and National Incident Management System (NIMS): An Introduction 700 (must bring certificate of completion to first class meeting) and Instructor I: Instructor Methodology OR Training Instructor 1A Cognitive Lesson Delivery (must bring certificate of completion to first class meeting.) and Fire Prevention I: Fire & Safety Inspections Fire & Safety Inspections OR Fire Prevention 1A: Introduction to the California Fire Code Bridge OR Company Officer 2C: Fire Inspections and Investigation (Must bring certificate of completion to first class meeting) OR completion of FTC 104 Fire Prevention Technology with a minimum grade of C.*

This course provides the skills and knowledge needed for the Community Risk Educator to perform his/her duties safely, effectively, and competently by coordinating and delivering existing educational programs and information. Enrollment is limited to 30 students. CFSTES Certificate of Completion awarded. This course requires additional materials fees. CSU

**FOT 273A****Chief Fire Officer 3A: Human Resource Management for Chief Fire Officers**

Unit(s): 1.0 Class Hours: 16.0 Lecture, 10.0 Lab total.

*Prerequisite: Student must meet the educational requirements for Company Officer. Evidence of qualifications must be submitted to the Fire Technology Department prior to the first class meeting. Educational Requirements may be met with completion of: Company Officer 2A: HR Management AND Company Officer 2B: General Administrative Functions AND Company Officer 2C: Fire Inspections and Investigation AND Company Officer 2D: All-Risk Command Operations AND Company Officer 2E: Wildland Incident Operations or If completed prior to 12/31/2016: Fire Command 1A: Command Principles for Company Officers AND Fire Command 1B: Incident Management for Company Officers AND Fire Command 1C: I-Zone Fire Fighting for Company Officers AND Fire Instructor 1A: Instructional Techniques, Part 1 AND Fire Instructor 1B: Instructional Techniques, Part 2 AND Fire Investigation 1A: Fire Origin and Cause Determination AND Fire Management 1: Management/Supervision for the Company Officer AND Fire Prevention 1A: Introduction to the California Fire Code AND Fire Prevention 1B: Inspection of Fire Protection Systems and Special Hazards AND I-300: Intermediate ICS.*

This course provides students with a basic knowledge of the human resources requirements related to the roles and responsibilities of a Chief Fire Officer. Topics include developing plans for providing employee accommodation, developing hiring procedures, establishing personnel assignments, describing methods of facilitating and encouraging professional development, developing an ongoing education training program, developing promotion procedures, developing proposals for improving employee benefits, and developing a measurable accident and injury prevention program. This course is designed for the certified Company Officer advancing to the Chief Fire Officer classification. This course is limited to 25 students. Additional materials fees may apply. Not offered every semester. CSU

**FOT 273B****Chief Fire Officer 3B: Budget and Fiscal Responsibilities for Chief Fire Officers**

Unit(s): 0.5 Class Hours: 10.0 Lecture, 8.0 Lab total.

*Prerequisite: Student must meet the educational requirements for Company Officer. Evidence of qualifications must be submitted to the Fire Technology Department prior to the first class meeting. Educational Requirements may be met with completion of: Company Officer 2A: HR Management AND Company Officer 2B: General Administrative Functions AND Company Officer 2C: Fire Inspections and Investigation AND Company Officer 2D: All-Risk Command Operations AND Company Officer 2E: Wildland Incident Operations or if completed prior to 12/31/2016: Fire Command 1A: Command Principles for Company Officers AND Fire Command 1B: Incident Management for Company Officers AND Fire Command 1C: I-Zone Fire Fighting for Company Officers AND Fire Instructor 1A: Instructional Techniques, Part 1 AND Fire Instructor 1B: Instructional Techniques, Part 2 AND Fire Investigation 1A: Fire Origin and Cause Determination AND Fire Management 1: Management/Supervision for the Company Officer AND Fire Prevention 1A: Introduction to the California Fire Code AND Fire Prevention 1B: Inspection of Fire Protection Systems and Special Hazards AND I-300: Intermediate ICS.*

This course provides students with a basic knowledge of the budgeting requirements related to the roles and responsibilities of a Chief Fire Officer including developing a budget management system, developing a division or departmental budget, and describing the process for ensuring competitive bidding. This class is designed for the certified Company Officer advancing to the Chief Fire Officer classification. May require additional materials fee. Class size is limited to 25. Not offered every semester. CSU

**FOT 273C****Chief Fire Officer 3C: General Administration Functions**

Unit(s): 1.0 Class Hours: 14.0 Lecture, 10.0 Lab total.

*Prerequisite: Student must meet the educational requirements for Company Officer. Evidence of qualifications must be submitted to the Fire Technology Department prior to the first class meeting. Educational Requirements may be met with completion of: Company Officer 2A: HR Management AND Company Officer 2B: General Administrative Functions AND Company Officer 2C: Fire Inspections and Investigation AND Company Officer 2D: All-Risk Command Operations AND Company Officer 2E: Wildland Incident Operations or If completed prior to 12/31/2016: Fire Command 1A: Command Principles for Company Officers AND Fire Command 1B: Incident Management for Company Officers AND Fire Command 1C: I-Zone Fire Fighting for Company Officers AND Fire Instructor 1A: Instructional Techniques, Part 1 AND Fire Instructor 1B: Instructional Techniques, Part 2 AND Fire Investigation 1A: Fire Origin and Cause Determination AND Fire Management 1: Management/Supervision for the Company Officer AND Fire Prevention 1A: Introduction to the California Fire Code AND Fire Prevention 1B: Inspection of Fire Protection Systems and Special Hazards AND I-300: Intermediate ICS.*

This course provides students with a basic knowledge of the administration requirements related to the roles and responsibilities of a Chief Fire Officer including directing a department record management system, analyzing and interpreting records and data, developing a model plan for continuous organizational improvement, developing a plan to facilitate approval, preparing community awareness programs, and evaluating the inspection program of the AHJ. Additional materials fees may be required. This course is limited to 25 students. Not offered every semester. CSU

**FOT 273D****Chief Fire Officer 3D: Emergency Service Delivery Responsibilities for Chief Fire Officers**

Unit(s): 1.0 Class Hours: 16.0 Lecture, 8.0 Lab total.

*Prerequisite: Student must meet the educational requirements for Company Officer. Evidence of qualifications must be submitted to the Fire Technology Department prior to the first class meeting. Educational Requirements may be met with completion of: Company Officer 2A: HR Management AND Company Officer 2B: General Administrative Functions AND Company Officer 2C: Fire Inspections and Investigation AND Company Officer 2D: All-Risk Command Operations AND Company Officer 2E: Wildland Incident Operations or If completed prior to 12/31/2016: Fire Command 1A: Command Principles for Company Officers AND Fire Command 1B: Incident Management for Company Officers AND Fire Command 1C: I-Zone Fire Fighting for Company Officers AND Fire Instructor 1A: Instructional Techniques, Part 1 AND Fire Instructor 1B: Instructional Techniques, Part 2 AND Fire Investigation 1A: Fire Origin and Cause Determination AND Fire Management 1: Management/Supervision for the Company Officer AND Fire Prevention 1A: Introduction to the California Fire Code AND Fire Prevention 1B: Inspection of Fire Protection Systems and Special Hazards AND I-300: Intermediate ICS.*

This course provides students with a basic knowledge of the emergency service requirements related to the roles and responsibilities of a Chief Fire Officer including developing a plan for the integration of fire services resources, developing an agency resource contingency plan, evaluating incident facilities, supervising multiple resources, developing and utilizing an incident action plan, obtaining incident information to facilitate transfer of command, developing and conducting a post-incident analysis, and maintaining incident records. This course is designed for the certified Company Officer advancing to the Chief Fire Officer classification. Additional materials fees may be required. This class limited to 25 students. May not be offered every semester. CSU

**FOT 274A****Executive Chief Fire Officer 4A: Human Resource Management for Chief Fire Officers**

Unit(s): 1.0 Class Hours: 16.0 Lecture, 12.0 Lab total.

*Prerequisite: FOT 273A and FOT 273B and FOT 273C and FOT 273D with a minimum grade of C.*

This course provides the skills and knowledge needed for the Executive Chief Fire Officer to perform his/her duties safely, effectively, and competently. The overarching themes of this curriculum are recruitment, selection, and placement of human resources; the development of a positive and participative member/management program; the establishment and evaluation of a list of education and in-service training goals; appraisal of a member assistance program; and the evaluation of an incentive program to determine if the desired results are achieved. Applies to State Fire Marshal Executive Chief Fire Officer certification. Additional materials fee required for State Certificate Fee. This class may not be offered every semester. CSU

**FOT 274B****Executive Chief Fire Officer 4B: Community & Government Relations**

Unit(s): 0.5 Class Hours: 6.0 Lecture, 6.0 Lab total.

*Prerequisite: FOT 273A and FOT 273B and FOT 273C and FOT 273D with a minimum grade of C.*

*This course provides the skills and knowledge needed for the Executive Chief Fire Officer to perform his/her duties safely, effectively, and competently. The overarching theme of this curriculum is assuming a leadership role in community events. Designed For: Executive Chief Fire Officer Candidate. CSU*

**FOT 274C****Executive Chief Fire Officer 4C: Administration**

Unit(s): 1.0 Class Hours: 16.0 Lecture, 16.0 Lab total.

*Prerequisite: FOT 273A and FOT 273B and FOT 273C and FOT 273D with a minimum grade of C.*

This course provides the skills and knowledge needed for the Executive Chief Fire Officer to perform his/her duties safely, effectively, and competently. The overarching themes of this curriculum are developing a comprehensive, long range plan; evaluating and projecting training requirements, facilities, and building needs; completing a written comprehensive risk, hazard, and value analysis; and developing a plan for a capital improvement project or program. Applies to State Fire Marshal Executive Chief Fire Officer certification. Additional materials fee required for State Certificate Fee. This class may not be offered every semester. CSU

**FOT 274D****Executive Chief Fire Officer 4D: Emergency Services Delivery**

Unit(s): 1.0 Class Hours: 22.0 Lecture, 16.0 Lab total.

*Prerequisite: FOT 273A and FOT 273B and FOT 273C and FOT 273D with a minimum grade of C.*

This course provides the skills and knowledge needed for the Executive Chief Fire Officer to perform his/her duties safely, effectively, and competently. The overarching themes of this curriculum are developing a comprehensive disaster plan and a comprehensive plan for the organization to operate at a civil disturbance. Designed For: Executive Chief Fire Officer Candidate. CSU

**FOT 274E****Executive Chief Fire Officer 4E: Health and Safety Course Plan**

Unit(s): 0.5 Class Hours: 4.0 Lecture, 12.0 Lab total.

*Prerequisite: FOT 273A and FOT 273B and FOT 273C and FOT 273D with a minimum grade of C.*

This course provides the skills and knowledge needed for the Executive Chief Fire Officer to perform his/her duties safely, effectively, and competently. The overarching theme of this curriculum is maintaining, developing, and providing leadership for a risk management program. Designed For: Executive Chief Fire Officer Candidate. CSU

**Fire Public Safety (FSA)****FSA 002**

California Ocean Lifeguard-Aquatic Rescue Response Skills

Unit(s): 0.5-9.0 Class Hours: 8.0 Lecture, 16.0-480.0 Lab total.

This course provides ocean lifeguards the occupational education and training needed to maintain adequate levels of knowledge to continue to perform lifesaving tasks. In addition to maintaining the minimum standards necessary for their positions, students are provided drills and formal training needed to ensure high levels of performance. (Pass/No Pass Only)

**FSA 005****EMT Recertification**

Unit(s): 0.3-1.5 Class Hours: 6.0-24.0 Lecture total.

*Prerequisite: Students must be in possession of a current EMT State certification or EMT National Registry certification.*

**FSA 014****Rescue Operations- Refresher**

Unit(s): 0.5-1.0 Class Hours: 12.0 Lecture, 10.0-24.0 Lab total.

*Prerequisite: FAC 060 with a minimum grade of C or equivalent.*

This course provides a review of the skills and knowledge needed for the professional fire fighter to perform his/her rescue duties safely, effectively, and competently. The curriculum is based on the 2013 edition of NFPA 1001 Standard for Fire Fighter Professional Qualifications.

**FSA 016A****CA Fire Service Administrative Requirements**

Unit(s): 0.5-1.0 Class Hours: 8.0-16.0 Lecture total.

*Prerequisite: Completion of FAC 060 Basic Fire Academy with a minimum grade of C or equivalent. NOTE: Requisite skills and knowledge learned in a basic fire academy will not be retaught.*

This course covers the duties and responsibilities of a Firefighter, departmental communications, ethical principles and prevention of sexual harassment. Content is based on the NFPA 1001 Standard for Fire Fighter Professional Qualifications and the California State requirements for government employees.

**FSA 017****Firefighter Refresher- Core Competencies**

Unit(s): 0.5-5.0 Class Hours: 8.0 Lecture, 0.0-260.0 Lab total.

*Prerequisite: Completion of FAC 060 with a minimum grade of C or equivalent. Approval from Fire Technology Department required. Students must provide their own personal protective equipment and tools which meet current NFPA requirements for maintenance and repair.*

Students are provided the opportunity to and reinforce their knowledge, refresh their skills and demonstrate continuing proficiency of their Job Performance Requirements as identified by the Office of the California State Fire Marshal and other certifying agencies. Focus is on mandated continuing education requirements for fire service personnel and the training needs of the jurisdiction. This course is not offered on a semester schedule.

**FSA 018****Firefighter Survival**

Unit(s): 0.5-1.0 Class Hours: 4.0 Lecture, 12.0-36.0 Lab total.

*Prerequisite: Students must provide primary instructor verification of the following prior to participating in any skill or evolution: Access to approved personal protective equipment including demonstration of competency in donning and using the personal protective equipment, and current fit test documentation. Students shall be familiar with all components of their SCBA. Students must show competency in the use of their SCBA prior to participating in any skill or evolution.*

This course provides students with a greater understanding of the need for situational awareness, fire fighter survival skills, and the technical survival skills to help firefighters avoid committing fatal errors on the fireground.

**FSA 027****Wildland Fire Safety Training Refresher**

Unit(s): 0.2-1.0 Class Hours: 4.0-16.0 Lecture, 1.0-10.0 Lab total.

This course focuses on operations and decision-making issues related to fireline and all-hazard incident safety. Topics include entrapment avoidance, current issues, other hazard and safety issues, and fire shelter in order to prepare firefighters for the upcoming fire season.

**FIRE TECHNOLOGY (FTC)****FTC 101 (C-ID FIRE 100 X)****Fire Protection Organization**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course provides an overview to fire protection and emergency services; career opportunities in fire protection and related fields; culture and history of emergency services; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics; life safety initiatives. CSU

**FTC 102 (C-ID FIRE 140 X)****Fire Behavior and Combustion**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course explores the theories and fundamentals of how and why fires start, spread, and are controlled. CSU

**FTC 103 (C-ID FIRE 150 X)****Principles of Fire and Emergency Services Safety and Survival**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services. CSU

**FTC 104 (C-ID FIRE 110 X)****Fire Prevention**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: FTC 101 and FTC 102 with a minimum grade of C.*

This course provides fundamental knowledge relating to the field of fire prevention. Topics include: history and philosophy of fire prevention; community risk reduction; organization and operation of a fire prevention bureau; use and application of codes and standards; plan review; fire inspections; fire and life safety education; and fire investigation. CSU

**FTC 105 (C-ID FIRE 130 X)****Building Construction for Fire Protection**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: FTC 101 and FTC 102 with a minimum grade of C.*

This course provides the components of building construction related to firefighter and life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at emergencies. CSU

**FTC 106 (C-ID FIRE 120 X)****Fire Protection Systems**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: FTC 101 and FTC 102 with a minimum grade of C.*

This course provides information relating to the features of design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection and portable fire extinguishers. CSU

**FTC 121****Physical Fitness for Public Safety Personnel**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Corequisite: Concurrent enrollment in FTC 121L.

This lecture class provides information on exercise physiology and nutrition as it relates to public safety personnel. Topics include the components of a fitness program such as metabolic fitness, muscular fitness, body composition and flexibility. Other topics include the FITT principle, specificity, and injury prevention and treatment. CSU

**FTC 121L****Physical Fitness for Public Safety Personnel - Performance and Assessment**

Unit(s): 0.3 Class Hours: 18.0 Lab total.

Corequisite: Concurrent enrollment in FTC 121L.

Student will participate in physical fitness and fire-specific activities. Focus is on preparing individual fitness, health, and physical ability for job requirements. Students will be advised of the specific dates and times for the Lab/ Physical Ability Practice sessions during first week of the semester at the Lab Orientation. CSU

**FRENCH (FREN)****FREN 101****Elementary French I**

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

A college level French course focusing on fundamentals of pronunciation and grammar, basic vocabulary (including common idioms), simple conversation and composition. Supplementary cultural readings. French 101 is equivalent to two years of high school French. CSU/UC

**FREN 102****Elementary French II**

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

*Prerequisite: FREN 101 with a minimum grade of C or two years of high school French with a passing grade.*

A college level French course focusing on further training in pronunciation and grammar, more extensive vocabulary development, conversation and composition. Supplementary cultural readings. French 102 is equivalent to the third year of high school French. CSU/UC

**FREN 201****Intermediate French I**

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

*Prerequisite: FREN 102 with a minimum grade of C or three years of high school French with a passing grade.*

A college level French class focusing on expansive review of usage and grammar; discussion in French of interpretive reading material; conversation and composition. CSU/UC

**FREN 201H****Honors Intermediate French I**

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students) AND FREN 102 with a minimum grade of C or three years of high school French with a passing grade.*

Enhanced and intensive exploration of French civilization, culture, and literature in a seminar setting. In-depth analysis of grammatical structures. Further use of argumentative oral strategies. Independent research by students to use and evaluate library and electronic information sources. Conversation and composition. CSU/UC

**FREN 202****Intermediate French II**

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

*Prerequisite: FREN 201 with a minimum grade of C or four years of high school French with a passing grade.*

A college level French class focusing on a specialized review of grammar and composition; and discussions in French of history and culture based on literary materials. CSU/UC

**FREN 202H****Honors Intermediate French II**

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students) AND FREN 201 or FREN 201H with a minimum grade of C or four years of high school French with a passing grade.*

Continuation of intensive exploration of French culture and literature in a seminar setting, review of specialized grammatical structures, and use of argumentative oral strategies. Continued development of conversation and composition. Independent research by students to use and evaluate library and electronic information sources. CSU/UC

**FREN 211****Intermediate Conversation and Composition I**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

*Prerequisite: FREN 102 with a minimum grade of C or equivalent, or three years of high school French with a passing grade.*

Intermediate conversational techniques. A review of language structure through discussion, conversation, reading and composition. Discussions of French culture and civilization. CSU/UC

**FREN 214****Intermediate Conversation and Composition II**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

*Prerequisite: FREN 201 with a minimum grade of C or the equivalent, or four years of high school French, or concurrent enrollment in FREN 202.*

Further development of conversational and composition skills through cultural and current events and readings. Vocabulary development and idiom usage in a cultural context. CSU/UC

**GEOGRAPHY (GEOG)****GEOG 100 (C-ID GEOG 125)****World Regional Geography**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The study of major world political and natural regions. Course study includes location of the regions on earth, the physical and cultural elements that lend the regions their identities, and ways in which these elements relate to the regions' inhabitants and economies. CSU/UC

**GEOG 100H (C-ID GEOG 125)****Honors World Regional Geography**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

Enriched and intensive study, including seminar approach with individual written and oral presentations of major world political and natural regions. Course study includes location of the regions on earth, the physical and cultural elements which provide the regions with their identities, and ways in which these elements relate to the regions' inhabitants and economies. CSU/UC

**GEOG 101 (C-ID GEOG 110)****Physical Geography**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduction to the physical elements of geography: maps, earth/sun relationships, meteorology and climatology, natural vegetation, soils, and geomorphology. CSU/UC



### **GEOG 101L (C-ID GEOG 111)**

#### **Physical Geography Laboratory**

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Corequisite: GEOG 101.

Laboratory exercises and experiments designed to explore and understand the primary areas of physical geography. Exercises and applications related to map scales and projections, stereoscopic, topographic and aerial photo interpretation, meteorological tools and models and weather prognostication, geomorphologic models and processes, and landform interpretation. CSU/UC

### **GEOG 102 (C-ID GEOG 120)**

#### **Cultural Geography**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introductory survey of the geography of culture, and the influences of the physical environment on culture, along with the impact of human activity on the environment, and the role of culture within societies and social groups. The course includes global patterns of population, migration, religion, language, agriculture, politics, customs, resources, and urban and rural settlement. CSU/UC

### **GEOG 130 (GEOG 130)**

#### **Introduction to Weather and Climate**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course examines weather and climate patterns of the earth from a geographic perspective including atmospheric structure and composition, solar radiation and energy balances, temperature, seasonal changes, atmospheric moisture, clouds and fog, precipitation, air pressure, winds, air masses and fronts, cyclonic and anticyclonic systems, weather forecasting, adiabatic, climate, and climate change. A combination of may be taken a maximum of four enrollments. CSU/UC

### **GEOG 140 (C-ID GEOG 140)**

#### **California Geography**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A thematic approach to the state's issues, processes and topics relevant to the geography including climate, landforms, natural vegetation, water resources, cultural landscape, ethnic diversity, urban and agricultural regions, and the economy. This course explores the physical, and human landscapes that have evolved as a result of the human-environment interface. CSU/UC

### **GEOG 155 (GEOG 155)**

#### **Introduction to Geographic Information Systems**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course introduces basic scientific principles of Geographic Information Systems (GIS) as they relate to working with data that have important spatial orientation and organization. Geometric and geographic concepts and theories are used to develop scientific methods for proper communication of the data and the solution of problems that have spatial relationships. Course covers basic concepts in mapping and orientation, the development of map scales and comparison of different coordinate systems and data error analysis. CSU/UC

### **GEOLOGY (GEOL)**

#### **GEOL 101 (GEOL 100)**

##### **Introduction to Geology**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introductory course for students in any major. Study of the internal and external processes that shape the earth (earthquakes, volcanoes, groundwater, streams, landslides). Optional field trip offered. Concurrent enrollment in Geology 101L is recommended. CSU/UC

#### **GEOL 101L (GEOL 100L)**

##### **Introduction to Geology Laboratory**

Unit(s): 1.0 Class Hours: 54.0 Lab total.

*Prerequisite: GEOL 101 with a minimum grade of C or concurrent enrollment in GEOL 101.*

Study of the common minerals and rocks. Map reading and interpretation of geology using topographic maps, geologic maps, and aerial photos. CSU/UC

#### **GEOL 112**

##### **Earthquakes**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Introduction to earthquakes, the processes that cause them, and the results of their occurrences. Required one-day field trip. CSU

#### **GEOL 140 (C-ID GEOL 130)**

##### **Environmental Geology**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduction to environmental geology, the interaction between the Earth and mankind. Global study of geologic resources, resource management, geologic hazards, and waste remediation (Same as Environmental Studies 140). CSU/UC

#### **GEOL 150**

##### **Introduction to Oceanography**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introductory study of the ocean's topography, sediments, circulation, shoreline processes, biological productivity and mineral resources. (Same as Earth Science 150.) CSU/UC

#### **GEOL 150H**

##### **Honors Introduction to Oceanography**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

An enriched study of the ocean's topography, sediments, circulation, shoreline processes, biological productivity and mineral resources (Same as Earth Science 150H). CSU/UC

#### **GEOL 162**

##### **Geologic Field Studies of the Mojave Desert**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

The geologic history including mountain building, volcanic activity, faulting, mineral resources and human history of the Mojave Desert region. Mandatory orientation along with a two-day field trip. May be repeated. CSU

#### **GEOL 164**

##### **Geologic Field Studies of the Eastern Sierra Nevada**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

The geologic history including mountain building, volcanic activity, glaciation, faulting, and mineral resources of the eastern Sierra Nevada from Red Rock Canyon to Mammoth Lakes. Mandatory orientation along with a five-day field trip. May be repeated. CSU

**GEOL 168****Geologic Field Studies of the Owens Valley**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

A study of the volcanic, pluvial, and fault history as recorded in rocks from Red Rock Canyon to Owens Lake. Mandatory orientation along with a two-day field trip. May be repeated. CSU

**GEOL 169****Geologic Field Studies of San Diego County**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Field study of the geology, ecology and history of the peninsular ranges and the San Diego County coastline. Mandatory orientation along with a two-day field study. May be repeated. CSU

**GEOL 170****Geologic Field Studies of the Anza- Borrego Desert State Park**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Field study of the geology, ecology, and history of the Anza-Borrego Desert State Park. Mandatory orientation along with a two-day field study. May be repeated. CSU

**GEOL 171****Geology Field Studies of Sequoia and Kings Canyon National Parks**

Unit(s): 1.0 Class Hours: 27.0 Lecture total.

A study of the geologic history, structure, and tectonics of the Sequoia and Kings Canyon areas. Mandatory orientation along with a three-day field study. CSU

**GEOL 172****Geologic Field Studies of the California Coast**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

A study of the coastal rocks, fossils and faults, as well as coastal oceanographic processes from Malibu to Monterey. Mandatory orientation along with a five-day field study. May be repeated. CSU

**GEOL 173****Geologic Field Studies of Death Valley**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

The geologic history including mountain building, volcanic activity, faulting, mineral resources and human history of the Death Valley region. Mandatory orientation along with a two-day field trip. CSU

**GEOL 174****Geologic Field Studies of Joshua Tree National Park**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

The geologic history including mountain building, volcanic activity, faulting, mineral resources and human history of the Joshua Tree region. Mandatory orientation along with a two-day field trip. CSU

**GEOL 201 (C-ID GEOL 111)****Introduction to Historical Geology**

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

Introductory geology course investigating the former landscapes and inhabitants of the Earth as preserved in the rock record with an emphasis on North America. Two optional one-day field trips. CSU/UC

**HISTORY (HIST)****HIST 101 (C-ID HIST 150)****World Civilizations to the 16th Century**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Examines the development of world civilizations and their interrelationships from the earliest beginnings to the sixteenth century. Emphasis on basic ideas, institutions, personalities, religious traditions, and artistic achievements. CSU/UC

**HIST 101H (C-ID HIST 150)****Honors World Civilizations to the 16th Century**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

An enriched approach designed for honors students that includes individual research as well as small group analysis of historical problems. Emphasis on the development of world civilizations and their interrelationships, basic ideas, institutions, personalities, and artistic achievements from the earliest beginnings to the sixteenth century. CSU/UC

**HIST 102 (C-ID HIST 160)****World Civilizations Since the 16th Century**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Broad historical study of world civilizations and their interrelationships from the 16th century to the present. Ideas, institutions, personalities, and artistic achievements which have contributed to present day society. CSU/UC

**HIST 102H (C-ID HIST 160)****Honors World Civilizations Since the 16th Century**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

An enriched approach designed for honors students with emphasis on individual research as well as small group analysis of historical problems. Broad historical study of world civilizations and their interrelationships from the 16th century to the present. Ideas, institutions, personalities, and artistic achievements which have contributed to present day society. CSU/UC

**HIST 105****Ancient Mesoamerican Civilization**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An archeological and ethnohistorical survey of the origin and development of pre-Columbian civilizations in ancient Mesoamerica from Paleo-Indian times to the Spanish conquest. (Same as Anthropology 105.) CSU/UC

**HIST 118****Social and Cultural History of the United States**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Examines social and cultural traditions during major historical periods. Focuses on American attitudes and response to economic and technological changes, aesthetics, music, art, language, architecture, folklore, high and popular culture. CSU/UC

**HIST 120 (C-ID HIST 130)****The United States to 1865**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Examines major political, economic, intellectual, and social forces at home and abroad that shaped American life from the colonial period through the Civil War. CSU/UC

## **HIST 120H**

### **Honors The United States to 1865**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

Seminar-style, content-enriched course for Honors students that examines major political, economic, intellectual, and social forces at home and abroad shaping American life from colonial period through Civil War. CSU/UC

## **HIST 121 (C-ID HIST 140)**

### **The United States since 1865**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A critical analysis of American history. Includes industrial and technological development, the changing nature of society, cultural developments, domestic politics, and America's expanded world role. CSU/UC

## **HIST 121H (C-ID HIST 148)**

### **Honors The United States since 1865**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

Seminar-style, content-enriched course for honors students exploring a critical analysis of American history including industrial and technological development, the changing nature of society, cultural patterns, domestic politics, artistic attainments, and America's expanded world role. CSU/UC

## **HIST 123**

### **African American History to 1865**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Surveys the history of African Americans in the United States from their African origins through the Civil War. Emphasizes African American impact on U.S. economic and political life, and highlights the effect slavery had on selected American thinkers. CSU/UC

## **HIST 124**

### **Mexican American History in the United States**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Survey of Mexican American history in the U.S. from the Pre-Columbian period to the present.

Emphasis on Mexican American contributions to the political, social, economic, and cultural development of the U.S. Will also examine the relationship of Mexican Americans to other cultural groups. CSU/UC

## **HIST 124H**

### **Honors Mexican American History in the United States**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

Enriched and intensive survey of Mexican American history in the U.S. from the Pre-Columbian period to the present. Utilizing a seminar approach, emphasis on Mexican American contributions to the political, social, economic, and cultural development of the U.S. Will also examine the relationship of Mexican Americans to other cultural groups. CSU/UC

## **HIST 125**

### **Native Americans in the U.S.**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An historical and contemporary survey of Native Americans in the United States, including the development of tribes and nations, and the cultural practices of Native Americans today. Field trips may be required. (Same as Anthropology 125) CSU/UC

## **HIST 127**

### **Women in U.S. History**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Women of European, African, Native, Hispanic, and Asian backgrounds examined in U.S. 1607-present. Emphasis on individuation, social status, family, reproduction, child care, slavery, jobs, and political activism. Legal impact and theories of patriarchal oppression raised. CSU/UC

## **HIST 133**

### **History of California**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An examination of the major social, political, and economic developments that have shaped

California history from the indigenous period to the present. Special attention is given to regional issues, ethnic or cultural groups, constitutional matters, cultural change, and California's connection with the Pacific Basin. CSU/UC

## **HIST 146**

### **African American History from 1863 to the Present**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Survey of the history of African Americans in the United States from Reconstruction to the present. Focuses on the economic, political and social aspects of racism and the varied efforts to advance civil rights. CSU/UC

## **HIST 150**

### **Latin American Civilization to Independence**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A study of Latin American civilization from the Indian, African, and European origins to Independence. Topics include native cultures, Spanish and Portuguese colonialism, the evolution of regional societies, and intellectual trends. CSU/UC

## **HIST 151**

### **Modern Latin American Civilization**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Latin American civilization in the nineteenth and twentieth centuries with a focus on the historical background of contemporary conditions and issues. Major and minor countries studied. CSU/UC

## **HIST 153**

### **History of Mexico**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Mexican history from the pre-Columbian period to the present. Includes social, political, economic, and cultural growth of the Mexican nation. Emphasis on cultural and political development. CSU/UC

## **HIST 163**

### **Introduction to Southeast Asian History**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Analyzes the general history of Southeast Asia's society, economy, government, religion, philosophy, and the arts. Also includes the impact of the West, decolonization and national unification movements during the Cold War, and the historical background of contemporary social and political problems. CSU/UC

**HIST 181****Survey of Chicana/Latina Women's History**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Survey of the historical roots of modern-day Chicana/Latina women. Course will discuss women in pre-Columbian America, colonial women in Mexico and the Southwest U.S., as well as Chicana/Latina women in a national/ international context, labor, and culture. CSU/ UC

**INTERDISCIPLINARY STUDIES (IDS)****IDS 121****Humanities Through the Arts**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to the humanities through a study of seven major art forms: film, drama, music, literature, painting, sculpture and architecture. Artistic works are considered from the perspectives of historical development, the elements used in the creation process, artistic form, and meaning expressed. CSU/UC

**IDS 155****Human Sexuality**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An interdisciplinary review of the biological development and psychological influences across the lifespan, including neuroscience research and sociocultural considerations in the areas of gender, attraction, attachment, love, sexual orientations, anatomy, sexual arousal and response, conception, contraception, reproduction, health, including sexual coercion and sexually transmitted infections. CSU/UC

**IDS 200****Introduction to Liberal Studies**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.*

This survey course explores the historical foundations and interdisciplinary nature of Liberal Studies. Students will examine the nature, history, and intersections of prevailing ideas on a specific topic through the arts and humanities, social and political thought, and scientific inquiry. Readings will reflect gender and cultural diversity. CSU/UC

**ITALIAN (ITAL)****ITAL 120****Elementary Italian I**

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

Pronunciation, grammar, speaking, reading, listening, writing, common idioms, and cultural insights. Italian 120 is equivalent to 2 years of high school Italian. CSU/UC

**ITAL 121****Elementary Italian II**

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

*Prerequisite: Italian 120 with a minimum grade of C or two years of high school Italian. All public four year institutions in California require Italian I or Italian 120, as a prerequisite of Italian 2, or Italian 121.*

Mastery of pronunciation and basic grammatical structures. Further training in reading, writing, and speaking to promote fluent and idiomatic communication. Italian 121 is equivalent to the third year of high school Italian. CSU/UC

**JAPANESE (JAPN)****JAPN 101****Elementary Japanese I**

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

A college level Japanese course focusing on fundamentals of pronunciation and grammar, basic vocabulary (including common idioms), simple conversation, and composition. Supplementary cultural readings. Japanese 101 is equivalent to two years of high school Japanese. CSU/UC

**JAPN 102****Elementary Japanese II**

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

*Prerequisite: Japanese 101 with a minimum grade of C or equivalent, or two years of high school Japanese with a passing grade.*

A college level Japanese course focusing on further training in language skills, providing avenues for the expression of ideas in both oral and written forms. Additional study of culture. Japanese 102 is equivalent to the third year of high school Japanese. CSU/UC

**KINESIOLOGY ACTIVITIES (KNAC)****KNAC 098****Topics**

Unit(s): 0.5-1.0 Class Hours: 24.0-54.0 Lab total.

Specialized activities courses on topics related to special needs of Kinesiology students.

**KNAC 107A****Beginning Badminton**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This course is designed to introduce students to a racket sport, the sport of badminton.

Emphasis is placed on the proper technique of the basic skills required in badminton, rules, scoring, and safety. Instruction and practice will include the proper grip, under-hand serve, drives, clears, drops, and smashes. This course is offered as a half-unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 107A, 160A, 169A, and Kinesiology Adapted Activities 205A may be taken a maximum of four enrollments. CSU/UC

**KNAC 107B****Intermediate Badminton**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

*Prerequisite: KNAC 107A with a minimum grade of C.*

This course is designed to review and solidify the basic techniques and rules associated with the game of badminton. Emphasis is placed on proper footwork and the technical aspects associated with the game. This course is offered as a half unit or one-unit class and may not be repeated. CSU/UC

**KNAC 107C****Advanced Badminton**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

*Prerequisite: KNAC 107B with a minimum grade of C.*

This course is designed to review and solidify the proper footwork and intermediate techniques associated with the game of badminton. Emphasis is placed on tactical game awareness of both singles and doubles play. This course is offered as a half unit or one-unit class and may not be repeated. CSU/UC

### **KNAC 123**

#### **Personal Fitness Training**

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Activity course designed to assist students in mastering effective lifestyles, and nutritional, cardiovascular, and resistance training techniques crucial for personal fitness and personal growth. Goal setting and motivation, time management, stress management, as well as development of an individual fitness routine and execution of that routine are the primary topics. CSU/UC

### **KNAC 140A**

#### **Beginning Karate**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This course is designed to offer instruction in the Japanese art of Karate for beginning level students. Basic movements such as stances, blocking, kicking and striking are taught. This course is offered as a half unit or one-unit class and may not be repeated. CSU/UC

### **KNAC 150A**

#### **Beginning Hatha Yoga**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This course is designed as an introduction to the practice of Hatha Yoga. Emphasis will be placed on proper breathing techniques and learning basis yoga postures. These postures are designed to improve muscle tone and flexibility, as well as helping with breath control, relaxation, and unity of mind, body, and spirit. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 150A, 170A, and Kinesiology Aerobic Fitness 150A may be taken a maximum of four enrollments. CSU/UC

### **KNAC 155A**

#### **Beginning Self-Defense**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Instruction in personal safety and self-protection including the effective use of hands, knees, elbows, feet, and the mind. Proficiency with everyday objects such as weapons and defense against common street weapons is also stressed. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 140, 155A, Kinesiology Aerobic Fitness 156, 156A, and 156B may be taken a maximum of four enrollments. CSU/UC

### **KNAC 160A**

#### **Beginning Tennis**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Instruction and practice in the fundamental skills basic to the successful performance of tennis. These skills include grip and body mechanics involved with the forehand, backhand, serve, lob, smash, and net play. Etiquettes, court strategy, and rules will be covered in singles and doubles play. Tournament play will be introduced. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 107A, 160A, 169A, and Kinesiology Adapted Activities 205A may be taken a maximum of four enrollments. CSU/UC

### **KNAC 169A**

#### **Beginning Wrestling**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Fundamentals of wrestling skills and techniques. Take-downs, escape, analysis of opponent's strengths and weaknesses will be considered. Student will master rules, regulations, and ethics of the activity. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 107A, 160A, 169A, and Kinesiology Adapted Activities 205A may be taken a maximum of four Enrollments. CSU/UC

### **KNAC 169B**

#### **Intermediate Wrestling**

Unit(s): 1.0 Class Hours: 54.0 Lab total.

*Prerequisite: KNAC 169A with a minimum grade of C.*

Intermediate wrestling skills and techniques. Appropriate conditioning for wrestling competitive is developed. Fundamental skills are reviewed then focus shifts toward developing proficient intermediate skills such as striking, kicking, blocking, and grappling.

CSU/UC

### **KNAC 170A**

#### **Beginning Yoga**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This course is designed to increase flexibility and core muscle strength as a way of improving and enhancing physical and mental alertness through beginning yoga postures.

Emphasis will be placed on mind body preparation and the proper technique necessary to perform these postures. This course is offered as a half unit or one-unit class and may not be repeated. A combination of may be taken a maximum of four enrollments. CSU/UC

### **KNAC 200A**

#### **Beginning Intramural-Basketball**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This class is designed to introduce/better acquaint students to the game of basketball. Emphasis is placed on rules, techniques, safety, and improving performance. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 260C, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

### **KNAC 200B**

#### **Intermediate Intramural Sports- Basketball**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

*Prerequisite: KNAC 200A with a minimum grade of C.*

This class is designed to provide students with an opportunity to participate and compete against classmates in the sport of basketball. Instruction focuses on improving performance in all aspects of the game of basketball: defense, offense, strategies, and special situations. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 260C, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

**KNAC 200C****Advanced Intramural Basketball**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

*Prerequisite: KNAC 200B with a minimum grade of C.*

This class is designed to provide students with an opportunity to participate and compete against classmates in the sport of basketball. Instruction focuses on improving performance in all aspects of the game of basketball: advanced defense, advanced offense, advanced strategies, and special situations associated with the game of basketball. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 260C, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

**KNAC 211A****Beginning Baseball**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Beginning fundamentals of fielding, throwing and hitting. Includes play situations with an emphasis on team offensive and defensive strategy. This course is offered as a half-unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 260C, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

**KNAC 211B****Intermediate Baseball**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

*Prerequisite: KNAC 211A with a minimum grade of C.*

Intermediate fundamentals designed to help prepare the student for baseball competition. Students will learn offensive skills, defensive skills, and communication under competitive game conditions. This course is offered as a half-unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 260C, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

**KNAC 220A****Beginning Basketball**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Co-educational team sport activity which provides basic skills and techniques are refined at the beginner level. Rules, game strategies, and competitive activities are included. This course will be offered as a half-unit or one-unit course and may not be repeated. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 260C, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

**KNAC 220B****Intermediate Basketball**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

*Prerequisite: KNAC 220A with a minimum grade of C.*

Co-educational team sport activity which provides intermediate instruction in the techniques, tactics and strategies associated with competitive basketball. Special emphasis placed on individual drills and skills such as catching, dribbling, passing, shooting, offensive and defensive strategies are utilized as well as competitive play situations. This course will be offered as a half-unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 260C, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

**KNAC 220C****Advanced Basketball**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

*Prerequisite: KNAC 220B with a minimum grade of C.*

Co-educational team sport activity for students with advanced skills. Review of basic fundamental skills and emphasis on advanced development of skills and strategies associated with competitive basketball. This course will be offered as a half-unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 260C, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

**KNAC 226A****Beginning Water Polo**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Recommended Preparation: Students must be able to swim and be comfortable exercising in deep water.

Instruction and experience in the fundamentals and strategies of water polo. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 260C, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

**KNAC 230A****Beginning Flag Football**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This is a physical activity course designed to provide instruction and practice in the basic skills, techniques, fundamentals, strategies, and rules of the game of flag football. These activities are based on a beginning level. This course will be offered as a half-unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 230A, 260A, 260B, 260C, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

**KNAC 260A****Beginning Soccer**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This course is an introduction to the beginning skills and rules associated with the sport of soccer. Emphasis will be placed on the proper technique used for these beginning skills as well as FIFA Laws of the Game. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 260C, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

**KNAC 260B****Intermediate Soccer**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

*Prerequisite: KNAC 260A with a minimum grade of C.*

This course is designed to review and solidify the proper techniques associated with outdoor soccer and FIFA Laws of the Game. The intermediate skills necessary as well as the tactical aspects of the game will be introduced. Emphasis will be placed on improving the student's technical abilities and tactical team formations used in the game of soccer. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 260C, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

**KNAC 260C****Advanced Soccer**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

*Prerequisite: KNAC 260B with a minimum grade of C.*

This course is designed to review and solidify the proper techniques associated with intermediate level outdoor soccer as well as the tactical aspects that were introduced. Emphasis will be placed on complete technical and tactical match preparedness and awareness.

This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 260C, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

**KNAC 265A****Beginning Indoor Soccer**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This course is an introduction to the beginning skills and rules associated with the sport of indoor soccer. Emphasis will be placed on the proper technique used for these beginning skills as well as the rules of the game. CSU/UC

**KNAC 265B****Intermediate Indoor Soccer**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

*Prerequisite: KNAC 265A with a minimum grade of C.*

This course is designed to review and solidify the proper techniques and rules associated with the game of soccer (indoor). The intermediate skills necessary as well as the tactical aspects of the game will be introduced. Emphasis will be placed on improving the student's technical abilities and tactical team formations used in the game of soccer (indoor). This course is offered as a half unit or one-unit class and may not be repeated. A combination of KNAC 265B may be taken a maximum of four enrollments. CSU/UC

**KNAC 265C****Advanced Indoor Soccer**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

*Prerequisite: KNAC 265B with a minimum grade of C.*

This course is designed to review and solidify the proper techniques associated with intermediate level indoor soccer as well as the tactical aspects that were introduced. Emphasis will be placed on complete technical and tactical match preparedness and awareness.

This course is offered as a half unit or one-unit class and may not be repeated. CSU/UC

**KNAC 270A****Beginning Softball**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Fundamentals of fielding, throwing, hitting, and base running. Includes play situations and an emphasis on team offensive and defensive strategy. This course will be offered as a half- unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 260C, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

**KNAC 280****Track and Field**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Track and field provide instruction and practice in the fundamentals, skills and techniques of all track and field events. It provides a conditioning program involving event-specific running and event-specific techniques and drills. This course is offered as a half unit or one-unit class and may not be repeated. CSU

**KNAC 290A****Beginning Volleyball**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Instruction and practice in fundamental skills techniques, strategies, basic rules, team offense and defense, and team concepts of Volleyball. This course is offered as a half-unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 260C, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

**KNAC 290B****Intermediate Volleyball**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Recommended Preparation: KNAC 290A with minimum a grade of C. An intermediate volleyball activities course. Emphasis will be placed on intermediate technical skill development, offensive and defensive systems analysis, and sport specific physical fitness assessment and conditioning activities. This course will be offered as a half- unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 200A, 200B, 200C, 211A, 211B, 226A, 220A, 220B, 220C, 260A, 260B, 260C, 270A, 290A, and 290B may be taken a maximum of four enrollments. CSU/UC

**KINESIOLOGY ADAPTED ACTIVITIES (KNAD)****KNAD 098****Topics**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Corequisite: Adapted Kinesiology Medical Release Form required.

Specialized courses on topics related to the special needs of students with disabilities and chronic conditions as related to health and fitness. Not offered every semester.

A combination of may be taken a maximum of four enrollments. (Pass/No Pass Only)

**KNAD 198****Topics**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Corequisite: Adapted Kinesiology Medical Release Form required.

Specialized courses on topics related to the special needs of students with physical limitations as related to exercise fitness. Not offered every semester. May be repeated. CSU

**KNAD 201A****Beginning Adapted Swimming**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Corequisite: Adapted Kinesiology Medical Release Form required.

The class is designed for students with disabilities and chronic conditions to experience the benefits of swimming. Individualized exercise programs are designed to teach students adaptive strategies and beginning level techniques for pool entry/exit, breathing, and swim strokes to meet their individual needs. This course is offered as a half-unit or one-unit class and may not be repeated. A combination of Kinesiology Adapted Activities 201A, 211A, 211B, Kinesiology Aquatics 201A, 201B, and 204 may be taken a maximum of four enrollments. CSU/UC

**KNAD 202A****Beginning Adapted Circuit Training**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Corequisite: Adapted Kinesiology Medical Release Form required.

This class is designed for students with disabilities and chronic conditions to experience the benefits of circuit training. Individualized exercise programs are designed to teach students adaptive strategies and beginning level techniques to meet their individual needs. This course is offered as a half-unit or one-unit class and may not be repeated. A combination of Kinesiology Adapted Activities 202A, 202B, Kinesiology Fitness 100, 101A, 101B, 101C, 102, 109A, 109B, 109C, 110A, 110B, and 110C may be taken a maximum of four enrollments. CSU/UC

**KNAD 202B****Intermediate Adapted Circuit Training**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

*Prerequisite: KNAD 202A with a minimum grade of C.*

Corequisite: Adapted Kinesiology Medical Release Form required.

The class is designed for students with disabilities and chronic conditions to increase their knowledge and skills competence in circuit training. Individualized exercise programs are designed to teach students adaptive strategies and intermediate level techniques to meet their individual needs. This course is offered as a half-unit or one-unit class and may not be repeated. A combination of Kinesiology Adapted Activities 202A, 202B, Kinesiology Fitness 100, 101A, 101B, 101C, 102, 109A, 109B, 109C, 110A, 110B, and 110C may be taken a maximum of four enrollments. CSU/UC

**KNAD 205A****Beginning Adapted Badminton**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Corequisite: Adapted Kinesiology Medical Release Form required.

This course is designed for students with disabilities and chronic conditions to introduce the fundamentals of badminton play. Striking skills, rallying, teamwork, rules, and court strategy are presented to meet the developmental needs of each student. This course is offered as a half-unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 107A, 160A, 169A, and Kinesiology Adapted Activities 205A may be taken a maximum of four enrollments. CSU/UC

**KNAD 208A****Beginning Adapted Aerobic Fitness**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Corequisite: Adapted Kinesiology Medical Release Form required.

The class is designed for students with disabilities and chronic conditions to experience the benefits of aquatic activities. In a group exercise setting, students are taught adaptive strategies and beginning level techniques for cardiovascular, balance, resistance, and core training. No swimming skills required. This course is offered as a half-unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 123, Kinesiology Adapted Activities 208A, 208B, Kinesiology Aerobic Fitness 140, 157A, Kinesiology Fitness 115A, 115B, and 115C may be taken a maximum of four enrollments. CSU/UC

**KNAD 211B****Intermediate Adapted Aquatics**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

*Prerequisite: KNAD 211A with a minimum grade of C.*

Corequisite: Adapted Kinesiology Medical Release Form required.

This class is designed for students with disabilities and chronic conditions to increase their knowledge and skills competence in aquatic activities. In a group exercise setting, students are taught adaptive strategies and intermediate level techniques for cardiovascular, balance, resistance, and core training. No swimming skills required. This course is offered as a half-unit or one-unit class and may not be repeated. A combination of Kinesiology Adapted Activities 201A, 211A, 211B, Kinesiology Aquatics 201A, 201B, and 204 may be taken a maximum of four enrollments. CSU/UC

**KINESIOLOGY AEROBIC FITNESS (KNAF)****KNAF 098****Topics**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Specialized aerobic fitness courses related to the needs of Kinesiology students (Pass/No Pass Only).



**KNAF 140A****Beginning Walking/Jogging for Fitness**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This course will emphasize cardiovascular walking/jogging for health and fitness for men and women who are interested in instruction and practice in cardiovascular conditioning. The walking/jogging class is designed to decrease the risk of coronary heart disorders by increasing heart efficiency, vital lung capacity, and the knowledge of each through aerobic and anaerobic conditioning. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Adapted Activities 208A, 208B, Kinesiology Aerobic Fitness 140A, 157A, Kinesiology Fitness 115A, 115B, and 115C may be taken a maximum of four enrollments. CSU/UC

**KNAF 143A****Boot Camp Workout**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Instruction in overall fitness development. The program develops overall fitness and challenges students to perform aerobic, anaerobic, strength, plyometric and agility exercises to their individual highest level. It uses a variety of environments (i.e. beach, strength lab, track, field, etc). This course is offered as a half unit or one-unit class and may not be repeated. CSU/UC

**KNAF 144A****Beginning Cross Training**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This class will be comprised of aerobic workouts designed to introduce the student to the concept of cross training and trying different work-outs. The class will be divided into sections including walk/jog, step training, cardio boxing, weight training, and flexibility work-outs. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Aerobic Fitness 144A, Kinesiology Fitness 147A and 147B may be taken a maximum of four enrollments. CSU/UC

**KNAF 146A****Beginning Stability Ball**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

A core training and strengthening workout using stability balls and free weights (dumbbells) to build core strength and functional fitness. Designed to tone the entire body with special emphasis on progressively improving posture, balance, flexibility, core strength and coordination. This course will be offered as a half-unit or one-unit class and may not be repeated. CSU/UC

**KNAF 146B****Intermediate Stability Ball Training**

Unit(s): 1.0 Class Hours: 54.0 Lab total.

*Prerequisite: KNAF 146A with a minimum grade of C.*

An intermediate core training and strengthening workout using stability balls and free weights (dumbbells) to build core strength and functional fitness. Designed to tone the entire body with special emphasis on progressively improving posture, balance, flexibility, core strength and coordination. CSU/UC

**KNAF 150A****Beginning Stretch, Flex and Tone**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

A combination of stretching and toning exercises to increase strength, flexibility, and overall body fitness. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 150A, 170A, and Kinesiology Aerobic Fitness 150A may be taken a maximum of four enrollments. CSU/UC

**KNAF 156A****Beginning Cardio Kickboxing**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

A series of boxing and kickboxing exercises are arranged to music, gradually increasing in tempo with a greater emphasis on a non-stop 25-30-minute program. Kicks, punches, calisthenics, and rope jumping are combined to elevate heart rate and strengthen all major muscle groups. Students will learn to apply these self-defense techniques on kick pads and focus mitts to improve accuracy and provide resistance for the muscles. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 140, 155A, Kinesiology Aerobic Fitness 156, 156A, and 156B may be taken a maximum of four enrollments. CSU/UC

**KNAF 156B****Intermediate Cardio Kickboxing**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

*Prerequisite: KNAF 156A.*

A series of boxing and kickboxing exercises are arranged to music, gradually increasing in tempo with a greater emphasis on a non-stop 25-30-minute program. This class is designed to increase competence in kicking and punching, calisthenics, and rope jumping in various combinations to improve fitness. Students will further develop intermediate level self-defense techniques on kick pads and focus mitts to improve accuracy and provide resistance for the muscles. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 140, 155A, Kinesiology Aerobic Fitness 156, 156A, and 156B may be taken a maximum of four enrollments. CSU/UC

**KNAF 157A****Beginning Cardio Pump**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Instruction in overall fitness development. This class is designed to incorporate weight lifting into a cardiovascular routine. It develops strength and endurance of all major muscle groups using routines performed to music. A combination of Kinesiology Activities 123, Kinesiology Adapted

Activities 208A, 208B, Kinesiology Aerobic Fitness 140, 157A, Kinesiology Fitness 115A, 115B, and 115C may be taken a maximum of four enrollments. CSU/UC

**KNAF 198****Topics**

Unit(s): 0.5-1.0 Class Hours: 24.0-54.0 Lab total.

Specialized aerobic fitness courses on topics related to the needs of Kinesiology students. CSU

**KINESIOLOGY AQUATICS (KNAQ)****KNAQ 198****Topics**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Specialized aquatics course on topics related to the needs of Kinesiology students. CSU

**KNAQ 201A****Beginning Swimming**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Instruction and experience in the basic stroke techniques and safety procedures of swimming. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Adapted Activities 201A, 211A, 211B, Kinesiology Aquatics 201A, 201B, and 204 may be taken a maximum of four enrollments. CSU/UC

**KNAQ 201B****Lap Swimming**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Recommended Preparation: Prior experience with basic swim strokes, turns, and treading water.

Individualized swimming program designed to improve swimming techniques and cardiovascular fitness. Emphasis on endurance training. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Adapted Activities 201A, 211A, 211B, Kinesiology Aquatics 201A, 201B, and 204 may be taken a maximum of four enrollments. CSU/UC

**KINESIOLOGY FITNESS (KNFI)****KNFI 098****Topics**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Specialized fitness activities courses on topics related to the needs of Kinesiology students (Pass/No Pass Only).

**KNFI 112A****Beginning Circuit Training**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

An introduction to fundamental principles and practices of circuit training including safety, using cardiovascular and resistance machines, and components of exercise. This course provides the basics of a comprehensive exercise program that combines cardiovascular exercises with strength training. This course is offered as a half-unit or one-unit class and may not be repeated. CSU/UC

**KNFI 112B****Intermediate Circuit Training**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

*Prerequisite: KNFI 112A with a minimum grade of C/P.*

A continuation of exercise principles and practices of circuit training covered in Beginning Circuit Training. This course is designed to help students increase cardiovascular conditioning using a combination of resistive strength exercises and endurance training. Must complete Beginning Circuit Training prior to enrollment. This course is offered as a half-unit or one-unit class and may not be repeated. CSU/UC

**KNFI 112C****Advanced Circuit Training**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

*Prerequisite: KNFI 112B with a minimum grade of C/P.*

An individualized fitness program developed to promote lifetime fitness. Employs a combination of cardiovascular machines (treadmill, steppers, bicycles, elliptical, rower, etc.), and resistance machines. This course is designed as a continuation of Intermediate Circuit Training and promotes increased cardiovascular and muscular endurance. Educates students on the principles of nutrition and the body's adaptation to exercise. This course is offered as a half-unit or one-unit class and may not be repeated. CSU/UC

**KNFI 114A****Beginning Spinning**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This class is geared towards improving one's cardiovascular fitness and muscular strength through a spinning program on a stationary bike. The program covers two basic types of terrain: flat roads and hills through changes in resistance and positions. Spinning emphasizes everyone's individual needs, regardless of athletic ability, taught in a group atmosphere. This course is offered as a half unit or one-unit class and may not be repeated. CSU/UC

**KNFI 114B****Intermediate Spinning**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Individualized spinning program designed to improve spinning technique and cardiovascular fitness. Emphasis on endurance training. This course is offered as a half unit or one-unit class and may not be repeated. CSU/UC

**KNFI 115A****Beginning Cardiovascular Conditioning**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This course is offered as a half-unit or one-unit class and may not be repeated. A basic course designed for those people who desire a cardiovascular work-out using a combination of equipment such as stationary bikes, ellipticals, treadmills, rowers, etc. This course will cover elemental information as it regards to aerobic conditioning. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 123, Kinesiology Adapted

Activities 208A, 208B, Kinesiology Aerobic Fitness 140, 157A, Kinesiology Fitness 115A, 115B, and 115C may be taken a maximum of four enrollments. CSU/UC

**KNFI 115B****Intermediate Cardiovascular Conditioning**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

A course designed for those people who desire a cardiovascular work-out using a combination of equipment such as stationary bikes, ellipticals, treadmills, rowers, etc. This course is a continuation of Beginning Cardiovascular Conditioning and is designed to help students increase their cardiovascular endurance developed as a beginner. This course will cover topics as they relate to aerobic conditioning. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 123, Kinesiology Adapted Activities 208A, 208B, Kinesiology Aerobic Fitness 140, 157A, Kinesiology Fitness 115A, 115B, and 115C may be taken a maximum of four enrollments. CSU/UC

**KNFI 115C****Advanced Cardiovascular Conditioning**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

A continuation of Intermediate Cardiovascular Conditioning. This course is designed for students to increase their cardiovascular conditioning using a combination of machines (bicycles, treadmills, ellipticals, etc.), advanced fitness concepts as they relate to lifelong fitness levels will be covered. This course provides students with the opportunity to elevate their endurance and cardiovascular levels to the high-end of the aerobic range. This course is offered as a half unit or one-unit class and may not be repeated. A combination of Kinesiology Activities 123, Kinesiology Adapted Activities 208A, 208B, Kinesiology Aerobic Fitness 140, 157A, Kinesiology Fitness 115A, 115B, and 115C may be taken a maximum of four enrollments. CSU/UC

**KNFI 147A****Beginning Weight Training**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Introductory instruction in basic weight lifting concepts and experiential practice in large muscle area development utilizing guided and free weights. Development will be in muscle size or tone and strength or endurance. This course is offered as a half unit or one-unit class and may not be repeated. CSU/UC

**KNFI 147B****Intermediate Weight Training**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

*Prerequisite: KNFI 147A with a minimum grade of C.*

This course is designed for students to increase their knowledge and skills competence in large muscle area development utilizing free weights. Individualized exercise programs are designed to teach students intermediate level strategies and techniques. Development will be in muscle size or tone and strength or endurance. This course is offered as a half unit or one-unit class and may not be repeated. CSU/UC

**KINESIOLOGY HEALTH EDUCATION (KNHE)****KNHE 098****Topics**

Unit(s): 0.5-3.0 Class Hours: 9.0-54.0 Lecture total.

Specialized health-related courses on topics related to the needs of Kinesiology students. (Pass/No Pass Only.)

**KNHE 101****Healthful Living**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A comprehensive look at factors that impact people's health, longevity and lifetime wellness. Areas covered will be personal fitness, nutrition, drugs, alcohol and tobacco, AIDS and sexually transmitted diseases, and degenerative diseases including cancer, heart disease, strokes and diabetes. CSU/UC

**KNHE 102****Women's Health Issues**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An investigation into traditional and holistic health topics with a special emphasis on women's issues, considering all aspects and concepts of social and political influences, nutrition and fitness, relationships, sexuality, reproductive issues, and careers. Through analysis of these topics, students apply methods to healthy lifestyle choices. CSU/UC

**KNHE 103****Men's Health Issues**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Examines the societal, economic, cultural, and gender influences that shape men's health beliefs and practices. Explores specific health issues unique to men such as accessing health care, healthy relationships, domestic abuse, prostate cancer, and alcohol use. Critically examines literature and media to identify interventions within a masculinity framework to improve men's health outcomes. Identification of positive outcomes of healthy men at home, work, and in society. CSU/UC

**KNHE 104****Nutrition and Fitness**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

An applied nutrition course to improve the nutrition and health of active individuals. The course will focus on lifestyle, disease prevention, fitness, weight control, and the basic concepts of good nutrition. CSU/UC

**KNHE 106****Cardiopulmonary Resuscitation and First Aid**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course involves the theory and detailed demonstration of the first aid care of the injured. The student will learn to assess a victim's condition and incorporate proper treatment. Standard first aid, CPR, and AED certification(s) will be granted upon successful completion of requirements. CSU/UC

**KNHE 108****Stress Management**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course examines productive and nonproductive stress and the influence of various types of stress on health and wellness. Topics include the physiological aspects of stress and its effects on health, assessments of personal coping style, strategies for coping effectively with stress, relaxation techniques, mindful awareness, and positive self-talk. Emphasis is placed on practical application of stress management techniques in daily life. CSU

**KNHE 198****Topics**

Unit(s): 0.5-3.0 Class Hours: 9.0-54.0 Lecture total.

Specialized health-related courses on topics related to the needs of Kinesiology students. (Pass/No Pass Only.) CSU

Kinesiology Intercollegiate Athletics (KNIA)

**KINESIOLOGY INTERCOLLEGIATE ATHLETICS (KNIA)****KNIA 098****Topics**

Unit(s): 0.5-3.0 Class Hours: 9.0-54.0 Lecture total.

Specialized athletics courses on topics related to the needs of student-athletes. (Pass/No Pass Only.)

**KNIA 125****Conditioning for Football**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Recommended Preparation: Students should be in good physical health and be able to safely engage in the course content.

This class is designed to prepare the college football athletes to play offense, defense, and special teams. The focus is on skill development and conditioning through resistance training and field work. This course is offered as a half-unit or one-unit class. May be repeated.

CSU/UC

**KNIA 128****Conditioning for Athletes**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

An exercise program designed for athletes who participate in intercollegiate sports. Emphasis will be on the development of speed, endurance, flexibility, and strength. This course is offered as a half-unit or one-unit class. May be repeated. CSU/UC

**KNIA 133****Off Season Swimming**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Recommended Preparation: KNAQ 201A with a minimum grade of C or equivalent high school experience.

This course is designed as an advanced aquatics class for student athletes with exceptional swimming talent who have an interest in skills development and conditioning for intercollegiate swimming. Emphasis is placed upon developing competitive strokes and strategies as well as learning collegiate swimming rules and regulations. A variety of training techniques geared toward building strength, speed, and endurance will be implemented. This course is offered as a half- unit or one-unit class. May be repeated. CSU/UC

**KNIA 171****Wrestling - Off-Season**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This course is designed as a skills development and conditioning class for student athletes interested in wrestling. Fundamentals of wrestling, analysis of opponent's strengths and weakness, and knowledge of rules and regulations of the sport are presented. This course is offered as a half-unit or one-unit class. May be repeated. CSU/UC

**KNIA 198****Topics**

Unit(s): 0.5-3.0 Class Hours: 9.0-54.0 Lecture total.

Specialized athletics courses on topics related to the needs of student-athletes (Pass/No Pass Only). CSU

**KNIA 201****Baseball Men**

Unit(s): 3.0 Class Hours: 175.0 Lab total.

Recommended Preparation: High school or higher-level baseball experience.

This course is designed for student-athletes with exceptional baseball talent who intend to transfer and play baseball at the 4-year or professional level. Emphasis is on application of collegiate baseball rules and regulations, offensive and defensive fundamentals and strategies and mental strategies for intercollegiate sports competition. Students must meet CCCAA eligibility requirements and pass a health screening prior to participation. May be repeated. CSU/UC

**KNIA 202****Basketball-Men**

Unit(s): 3.0 Class Hours: 175.0 Lab total.

This course is designed for student athletes with exceptional basketball talent so they may compete in intercollegiate basketball. Emphasis is placed upon application of collegiate basketball rules and regulations, offensive and defensive skills and strategies, and mental set for competition. Students must meet CCCAA eligibility requirements and pass a health screening prior to intercollegiate competition. May be repeated. CSU/UC

**KNIA 204****Football-Men**

Unit(s): 3.0 Class Hours: 162.0 Lab total.

Recommended Preparation: To compete at the collegiate level, students should have prior experience at the high school or club level and must be physically able to safely participate in intercollegiate athletics. If no prior experience is inherent, then tangible attributes such as height, weight, strength, and speed results can be utilized to assess ability.

This course is designed for students with exceptional football talent so they may compete in intercollegiate football. The program provides competition with conference colleges as well as with other California community colleges. Students must meet CCCAA eligibility requirements and pass a health screening prior to participation. May be repeated. CSU/UC

**KNIA 206****Swimming-Men**

Unit(s): 3.0 Class Hours: 175.0 Lab total.

This class is designed for student athletes with exceptional swimming talent so they may compete in intercollegiate swimming. Emphasis is placed upon stroke technique, starts and turns, and collegiate rules and regulations. Students must meet CCCAA eligibility requirements and pass a health screening prior to participation. May be repeated. CSU/UC

**KNIA 209****Water Polo-Men**

Unit(s): 3.0 Class Hours: 162.0 Lab total.

This course is designed for student athletes with exceptional water polo talent so they may compete in intercollegiate water polo. Emphasis is placed upon application of collegiate water polo rules and regulations, offensive and defensive strategies, and mental set for competition. Students must meet CCCAA eligibility requirements and pass a health screening prior to intercollegiate competition. May be repeated. CSU/UC

**KNIA 210****Wrestling-Men**

Unit(s): 3.0 Class Hours: 162.0 Lab total.

This course is designed for student athletes with exceptional combative skills so they may compete in intercollegiate wrestling. Emphasis is placed on successful techniques and strategies for intercollegiate competition. Students must meet CCCAA eligibility requirements and pass a health screening prior to participation. May be repeated. CSU/UC

**KNIA 211**

**Softball-Women**

Unit(s): 3.0 Class Hours: 175.0 Lab total.

Recommended Preparation High school varsity softball experience.

This course is designed for student-athletes to participate in intercollegiate softball competition. A high-level, competitive program for student athletes with exceptional softball talent. Emphasis is placed upon application of collegiate softball rules and regulations as well as defensive and offensive skills and strategies. Students must meet CCCAA eligibility requirements and pass a health screening prior to participation. May be repeated. CSU/UC

**KNIA 212**

**Basketball--Women**

Unit(s): 3.0 Class Hours: 175.0 Lab total.

This course is designed for student-athletes with exceptional basketball talent so they may compete in intercollegiate competition. Emphasis is placed upon application of collegiate basketball rules and regulations, offensive and defensive skills and strategies, and mental set for competition. Students must meet CCCAA eligibility requirements and pass a health screening prior to participation. May be repeated. CSU/UC

**KNIA 213**

**Volleyball-Women**

Unit(s): 3.0 Class Hours: 162.0 Lab total.

This course is designed for student athletes with exceptional volleyball talent so they may compete in intercollegiate competition. Emphasis will be placed on advanced technical skill development, offensive and defensive systems analysis, sport specific physical fitness. Students must meet the California Community College Athletic Association eligibility requirements and pass a health screening prior to intercollegiate competition. May be repeated. CSU/UC

**KNIA 216**

**Soccer-Men**

Unit(s): 3.0 Class Hours: 175.0 Lab total.

Recommended Preparation: High school varsity soccer experience.

This soccer class is designed for student- athlete sport competition. Emphasis is placed on advanced technical and tactical development. Students must meet CCCAA eligibility requirements and pass a health screening prior to competition. May be repeated. CSU/UC

**KNIA 217**

**Swimming-Women**

Unit(s): 3.0 Class Hours: 175.0 Lab total.

Recommended Preparation: KNIA 133 with a minimum grade of C or high school swim team experience.

This class is designed for student-athletes with exceptional swimming talent so they may compete in intercollegiate swimming. Emphasis is placed upon stroke technique, starts and turns, and collegiate rules and regulations. Students must meet CCCAA eligibility requirements and pass a health screening prior to participation. May be repeated. CSU/UC

**KNIA 218**

**Track-Women**

Unit(s): 3.0 Class Hours: 162.0 Lab total.

Recommended Preparation: Successful interscholastic track and field and/or cross-country experience or equivalent.

This course is designed for student athletes with advanced running skills so they may compete in intercollegiate track. Emphasis is placed upon application of track & field techniques, advanced training modalities, rules and regulations of the sport, and strategies for successful intercollegiate competition. Students must meet CCCAA eligibility requirements and pass a health screening prior to participation. May be repeated. CSU/UC

**Cross Country-Women**

Unit(s): 3.0 Class Hours: 162.0 Lab total.

Recommended Preparation: Successful interscholastic cross country and/or track and field experience or equivalent.

This course is designed for student athletes with advanced running skills so they may compete in intercollegiate cross country. Emphasis is placed upon application of cross-country techniques, advanced training modalities, rules and regulations of the sport and strategies for successful intercollegiate competition. Students must meet CCCAA eligibility requirements and pass a health screening prior to participation. May be repeated. CSU/UC

**KNIA 220**

**Soccer-Women**

Unit(s): 3.0 Class Hours: 175.0 Lab total.

Recommended Preparation: High school varsity soccer experience.

This soccer class is designed for student- athlete sport competition. Emphasis is placed on advanced technical and tactical development. Students must meet CCCAA eligibility requirements and pass a health screening prior to competition. May be repeated. CSU/UC

**KNIA 221**

**Water Polo-Women**

Unit(s): 3.0 Class Hours: 175.0 Lab total.

Recommended Preparation: KNIA 227 with a minimum grade of C or former high school water polo team experience.

This course is designed for student athletes with exceptional water polo talent so they may compete in intercollegiate water polo.

Emphasis is placed upon application of collegiate water polo rules and regulations, offensive and defensive skills and strategies, and mental set for competition. Students must meet CCCAA eligibility requirements and pass a health screening prior to participation. May be repeated. CSU/UC

**KNIA 223**

**Baseball**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Recommended Preparation: High school or higher-level baseball experience.

This course is designed for skill development and conditioning for intercollegiate baseball players. Emphasis is placed upon instruction and training in the skills, fundamentals, knowledge, strategies, conditioning, and teamwork required for intercollegiate level baseball. This course is offered as a half-unit or one-unit class in the class schedule. May be repeated. CSU/UC

**KNIA 227****Off Season Waterpolo**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This course is designed to provide skills development and conditioning for competitive waterpolo players to prepare for intercollegiate competition. Emphasis is placed upon instruction and experience in the fundamentals and strategies of the sport of water polo. This course is offered as a half-unit or one-unit class in the class schedule. May be repeated. CSU/UC

**KNIA 230****Preseason Football**

Unit(s): 0.5 Class Hours: 4.5 Lecture, 18.0 Lab total.

*Prerequisite: Health screening clearing student to participate in collegiate football.*

This is an intensive course designed to prepare student athletes for a season of competition in intercollegiate football. It will include field work, classroom meeting time, and resistance training. The focus is skill development and preparation for a season of competition. It is included as part of the 175 contact hours allowed for student-athlete skill development and conditioning. Students must have a current health screening and doctor clearance to participate. May be repeated. CSU/UC

**KNIA 231****Football Camp**

Unit(s): 1.0 Class Hours: 9.0 Lecture, 36.0 Lab total.

Recommended Preparation: Students must be of good health, physically fit, and either have experience at the collegiate, high school, or club level of football, or possess the tangible size and speed of a collegiate prospect.

This is an intensive course designed to prepare student athlete for a season of competition in intercollegiate football. It will include field work, classroom meeting time, and resistance training. The focus is skill development and preparation for a season of competition. It is included in the 175 hours allotted to football for offseason development. May be repeated. CSU/UC

**KNIA 232****Football**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Recommended Preparation: Student should be of good health and can safely engage in course content.

Basic elements of the game including fundamental skills in stance, footwork, tackling and blocking techniques will be presented. Offensive and defensive formations and strategies will be practiced. The focus is skill development and conditioning, and is included in the 175 hours allotted to football for offseason development. This course is offered as a half-unit or one-unit class. May be repeated. CSU/UC

**KNIA 235****Speed and Agility**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This class includes instruction on linear speed, non-linear speed, and jumping ability using state of the art plyometric training and speed specific training tools. This course is offered as a half-unit or one-unit class. May be repeated. CSU/UC

**KNIA 240****Advanced Basketball Skills-Men**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This class is designed to focus on skill development and sport conditioning for basketball players with exceptional talent. Emphasis is placed upon application of basketball training techniques, offensive and defensive skills and strategies, and rules and regulations of the game. May be repeated. CSU/UC

**KNIA 261****Soccer-Women**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Recommended Preparation: High school varsity soccer experience.

This soccer class is designed for student-athlete sport conditioning and technical and tactical skill development. This course is offered as a half-unit or one-unit class. May be repeated. CSU/UC

**KNIA 262****Soccer-Men**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Recommended Preparation:

This soccer class is designed for student-athlete sport conditioning, and technical and tactical skill development. This course is offered as a half-unit or one-unit class as scheduled. May be repeated. CSU/UC

**KNIA 270****Softball**

Unit(s): 0.5 Class Hours: 36.0 Lab total.

Recommended Preparation: High school or higher-level softball experience.

This course is designed for skill development and conditioning for intercollegiate softball players. Fundamentals of fielding, throwing, hitting, and base running. Includes play situations and an emphasis on team offensive and defensive strategy. May be repeated. CSU/UC

**KNIA 271****Softball - Off Season**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This course is designed for skills development and conditioning for exceptional softball players interested in intercollegiate competition. Basic skills and fundamentals of catching, throwing, pitching, hitting and baserunning will be discussed. Offensive and defensive techniques and strategies will be practiced. This course is offered as a half-unit or one-unit class. May be repeated. CSU/UC

**KNIA 281****Track and Field - Off Season**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This course is designed to provide skills development and conditioning for intercollegiate track and field athletes. Students learn the principles of team building while preparing for individual event specific activities. The focus will be on improving event specific technical skills, training methods, and mental set for competitive performance in track and field. Field trips to next level track and field events may occur. This course will be scheduled as a half-unit or one-unit class in the schedule. May be repeated. CSU/UC

## **KNIA 291**

### **Volleyball - Off Season**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

This course is designed as a high-level conditioning and skills development program for volleyball players with exceptional talent. This course is offered as a half-unit or one-unit class. May be repeated. CSU/UC

## **KNIA 293**

### **Sand Volleyball**

Unit(s): 3.0 Class Hours: 175.0 Lab total.

This course is designed for student athletes so they may compete in intercollegiate sand volleyball. Emphasis will be placed on advanced technical skill development, offensive and defensive systems analysis, sport specific physical fitness. Students must meet the California Community College Athletic Association eligibility requirements and pass a health screening prior to intercollegiate competition. May be repeated. CSU/UC

## **KINESIOLOGY PROFESSIONAL (KNPR)**

### **KNPR 101 (C-ID KIN 100)**

#### **Introduction to Kinesiology**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course is an introduction to the interdisciplinary approach to the study of human movement. An overview of the importance of sub-disciplines in kinesiology will be discussed along with career opportunities in the areas of teaching, coaching, allied health, and fitness professions. CSU/UC

### **KNPR 110**

#### **Kinesiology-related Occupational Work Experience**

Unit(s): 1.0-8.0

*Prerequisite: Prerequisite: Students must be concurrently enrolled or have completed KNSM 101 or the Fitness Specialist Certificate Program. Application must be approved by the Kinesiology Department Chair.*

This work experience course consists of supervised paid or unpaid employment in an Athletic, Allied Health, or Fitness related setting. It is designed to assist students in acquiring desirable work habits, attitudes, and skills related to the student's educational major. Credit may be accrued at the rate of one to eight units per semester for a maximum of sixteen units. Seventy-five hours of paid work or sixty hours of unpaid work equals one unit of credit. Student repetition is allowed per title 5 section 55253; however, only 1 unit may be applied toward major requirements or a certificate. CSU

### **KNPR 125**

#### **Sport Psychology**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An academic and practical examination of the psychological aspects of sport concentrating on the scientifically proven methods of enhancing athletic performance through psychological training. CSU

### **KNPR 150**

#### **Sport and Society**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Examines the role of sport in modern society. Looks at how sport influences and shapes global attitudes among nations. Investigates the historical, social, economic, and political impact of sport on society. CSU

## **KNPR 155**

### **Theory of Soccer**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This course is designed for the competitive soccer player. Students will learn and develop a further understanding of the game of soccer. Laws of the game, offensive and defensive techniques and tactics, and the physical preparation for becoming a soccer player will be discussed. CSU/UC

## **KNPR 156**

### **Sport Psychology Applications - Soccer**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This course provides advanced mental training to improve soccer performance. Theories, strategies, and best practices include; mental set, arousal and performance, mental imagery, and motivation as they pertain to preparing for soccer competition. Students will develop necessary knowledge and skills to prepare for intercollegiate competition as well as self-assess readiness for transfer and the selection of transfer program. CSU

## **KNPR 160**

### **Management of Physical Education and Sport**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course examines all aspects of sports administration including the management process, organization of interscholastic and intercollegiate sports, human resources, fiscal issues, legal liability, and public relations. The course is intended for students interested in a career in physical education, coaching, fitness, and sports administration. CSU

## **KNPR 165**

### **Theory of Softball**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

A general overview of rules, regulations, strategies, mental preparation, skill evaluation, and the history of the sport of softball. Includes strategies and winning techniques of the game. CSU/UC

## **KNPR 170**

### **Sport Ethics**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A class designed to examine ethics, moral questions, and value judgements related to sport. Its approach allows students to follow and analyze ethical arguments, think through philosophical issues, and apply them to the artistic expression of sport as well as everyday life. CSU

## **KNPR 175**

### **Theory of Football**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Tactics and strategies applied to specific game situations incorporating evaluation of opponent's development of game plan including offense, defense, and the kicking game. CSU/UC

**KNPR 195****Student Athlete Success**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Corequisite: Status as current SAC student athlete. Athletic Counselor approved abbreviated and/or comprehensive education plan.

Recommended Preparation: Athletic Counselor approved abbreviated and/or comprehensive education plan. Status as current SAC student athlete.

This course is designed to prepare Santa Ana College student athletes for balancing the roles of student and athlete as well as preparing them to transfer. Students learn essential information regarding athletic eligibility, interactions between their education plan and athletic goals, NCAA and NAIA transfer requirements, growth mindset in athletics, college success skills, and time management. CSU/UC

**KNPR 196****Sport Psychology Applications - Baseball**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This class provides advanced mental training to improve baseball performance. Theories, strategies, and best practices include; mental set, arousal and performance, mental imagery, and motivation as they pertain to preparing for baseball competition. Students will develop necessary knowledge and skills to prepare for intercollegiate competition as well as self- assess readiness for transfer and the selection of transfer program. CSU

**KNPR 198****Topics**

Unit(s): 0.1-3.0 Class Hours: 2.0-54.0 Lecture total.

Specialized professional studies courses on topics related to the needs of Kinesiology students. (Pass/No Pass Only.) CSU

**KNPR 200****Theory of Baseball**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Designed for the competitive baseball player. Topics to include offensive and defensive baseball strategies, bunting, baserunning, mental and physical preparation of becoming a baseball player. CSU/UC

**KNPR 202****Introduction to Personal Training**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course is designed to introduce students to the fitness specialist career and prepare students for entry level personal trainer certification exams. Emphasis is placed on professional conduct, introduction of human movement science principles, and exercise program development for apparently healthy adults and children. CSU

**KNPR 205****Techniques of Exercise Leadership**

Unit(s): 1.0 Class Hours: 9.0 Lecture, 45.0 Lab total.

This course is designed to introduce and practice the principles and techniques involved in teaching group exercise and developing personal trainer/client relationships. Emphasis is placed on client assessment, communication skills, program design, exercise adherence, teaching strategies, and professional responsibility and liability. CSU

**KNPR 217****Theory of Basketball**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This course provides instruction for the competitive basketball player. Topics to include techniques and strategies of basketball, different types of defense and offensive patterns. Emphasis will be placed on the mental aspect of basketball, team play, biomechanics, and film study at a competitive level. CSU/UC

**KNPR 218****Sport Psychology Applications - Basketball**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This class provides advanced mental training to improve basketball performance. Theories, strategies, and best practices include; mental set, arousal and performance, mental imagery, and motivation as they pertain to preparing for basketball competition. Students will develop necessary knowledge and skills to prepare for intercollegiate competition as well as self-assess readiness for transfer and the selection of transfer program. CSU

**KNPR 275****Sport Psychology Applications-Football**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This class provides advanced mental training to improve performance in football. Theories, strategies, and best practices include; mental set, arousal and performance, mental imagery, and motivation as they pertain to preparing for competition. Students will develop necessary knowledge and skills to prepare for intercollegiate competition as well as self-assess readiness for transfer and the selection of transfer program. CSU

**KINESIOLOGY SPORTS MEDICINE (KNSM)****KNSM 101****Introduction to Sports Medicine**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course is designed to be an introduction to the field of sports medicine/athletic training. It

includes exposure to basic human anatomy and common athletic injuries as well as appropriate injury management strategies. CSU/UC

**LAW (LAW)****LAW 058****Legal Interpreting and Translation Spanish/English**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A course in legal interpretation/translation designed for employment certification of interpreters for government and private legal businesses. Fluency in Spanish and English strongly recommended. Same as BA 058. Field trips may be required.



## **LAW 100 (C-ID LPPS 110)**

### **Law and Society**

*Formerly: Introduction to Legal Studies*

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Overview of the legal system including the courts, participants and various sources of law in the American legal system. Review of the legal and judicial process in the United States covering the adversarial system, jurisdiction of federal and state courts, and the general process of judicial review. Explanation of different sources of law including statutes, court cases and administrative agency rules. Review of basic legal reasoning and introductory legal research methods. Examination of legal ethics. Introduction to substantive areas of law and the effect the law has in various groups and individuals in our system. CSU/UC

## **LAW 105 (C-ID BUS 120)**

### **The Legal Environment of Business**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Fundamental legal principles pertaining to business transactions. Introduction to the law as an instrument of social and political control in society. 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. (Same as Business 105). CSU/UC

## **LAW 110**

### **Legal Terminology**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

The study of terminology used in a law office and the court system. CSU

## **LAW 121**

### **Legal Ethical Reasoning**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course provides an introduction to concepts and theories of ethical decision-making, moral conduct, obligation and permission, justice, responsibility, as applied to the Legal Profession. The course will explore the application of the California Rules of Professional Conduct as applied to the legal profession and society in general. CSU

## **LAW 299**

### **Cooperative Work Experience Education - Occupational**

Unit(s): 1.0-4.0 Class Hours: 60.0-300.0 Lab total.

This work experience course of supervised employment is designed to assist students to acquire desirable work habits, attitudes and skills in a field related to the students' major so as to enable them to become productive employees. This course also provides students with career awareness for jobs. 75 hours of paid work or 60 hours of un-paid work equals one unit of course credit. Student repetition is allowed per Title 5, section 55253. (Pass/No Pass Only) CSU

## **LIBRARY AND INFORMATION STUDIES (LIBI)**

### **LIBI 100**

#### **Library Research Fundamentals**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

This course is designed to teach students basic college-level research skills for effective use of traditional and electronic library resources. Instruction includes print and non-print information sources such as reference books, scholarly material, online subscription databases, and the Internet. CSU/UC

### **LIBI 103**

#### **Advanced Internet Research**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

This course focuses on library research strategies for effectively locating and evaluating information on the Internet. Central topics are formulating search strategies, understanding how to form search expressions, evaluating information, and citing resources. CSU

## **LIBRARY TECHNOLOGY (LIBR)**

### **LIBR 053**

#### **Library Internship**

Unit(s): 3.0 Class Hours: 18.0 Lecture, 120.0 Lab total.

*Prerequisite: LIBR 101 and LIBR 110 and LIBR 122 with a minimum grade of C.*

Closely supervised fieldwork experiences in two carefully selected library settings that will allow the student to apply learned knowledge and skills. Weekly review seminars and discussions are conducted in the classroom and online. To be taken in the last semester of an A.A. Degree or Certificate in Library Technology.

### **LIBR 054**

#### **Children's Library Services**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Course explores standard library procedures and practices as they are adapted to a children's library situation. Each student has practice evaluating materials and using various methods for sharing literature with children, e.g. reading aloud, story times, displays, and bibliographies.

### **LIBR 101**

#### **Introduction to Library Technology**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course provides an introduction to libraries as a career field with particular emphasis on the role of the library technician in various types of library settings. It also provides an overview of library collections, history, organization, staffing, services, terminology, and electronic online resources. CSU

### **LIBR 102**

#### **Information Sources for Paraprofessionals: Tools and Techniques**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to information sources in both print and electronic formats. Includes a basic theoretical and practical exploration of the nature and types of information in selected subject fields. Builds skills in information searching and in the evaluation of information and information sources. CSU/UC

### **LIBR 110**

#### **Technical Services**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Survey of library technical services, exploring philosophies, ethics, policies, and procedures. Emphasis on materials acquisitions processes and workflows; cataloging and classification principles and rules (MARC, RDA, LC and Dewey Classification systems, and LC Subject Headings); metadata and its impact on user experience; collections preservation and maintenance; and the future of technical services. CSU

**LIBR 122****Public Services**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Exploration of library public services with special emphasis placed on a variety of issues as they relate to the circulation of library materials, the delivery of reference services, the use of the Internet and full-text databases for reference, and the preparation and delivery of library programs. CSU

**MANAGEMENT (MGMT)****MGMT 120****Principles of Management**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Principles, methods, and procedures essential to the successful management of human and financial resources. Planning, decision making, staffing, directing, motivating, leading, communicating, controlling, and the application of managerial skills (Same as Business 120). CSU

**MGMT 121****Human Relations and Organizational Behavior**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The role of the manager and management's relationship to employees. Includes the application of motivational theories, communications, leadership, and organizational structure (Same as Business 121). CSU

**MGMT 122****Business Communications**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Overview of oral and written communication skills used in business; emphasizes guidelines for improving writing and speaking skills, common solutions to common communication problems, ethical issues facing business communicators today, instructions on how to identify areas of legal vulnerability, and tested techniques for communicating successfully in today's high-tech, international business environment. Suggested preparation: English 061 or English for Multi-lingual Students 112 or American College English 116. CSU

**MGMT 125****Organizational Leadership**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An examination of the universal principles of leadership. Covers the many approaches to leadership, the role of gender and diversity, and leadership ethics. Designed to build repeatable and transferable leadership skills for today's organizational environment. CSU

**MGMT 135****Human Resource Management**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introductory course covers the goals, activities, and challenges of human resources. Includes equal employment opportunity and diversity, recruitment and selection, leadership and motivation, training and development, compensation, and employee and labor/management relations. CSU

**MANUFACTURING TECHNOLOGY (MNFG)****MNFG 096****Manufacturing Technology Lab**

Unit(s): 0.5-4.0 Class Hours: 27.0-216.0 Lab total.

Corequisite: MNFG 174 or MNFG 176 or MNFG 177 or MNFG 184 or MNFG 186 or MNFG 194

or MNFG 195.

A supplemental learning assistance course that provides supervised use of laboratory equipment for students enrolled in CNC machine courses to complete machine setup and operation projects. Students are expected to complete 24 lab hours for each .5 unit of credit. May be repeated up to the maximum number of units. Grade: Pass/No Pass only.

**MNFG 103****Solidworks Beginning Solid Modeling**

*Formerly: Beginning Solid Modeling*

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introductory course in parametric solid modeling using Solidworks, an industry standard engineering design software (CAD). This course will include a solid modeling overview, solid model construction techniques (extrude, revolve, fillet, chamfer, etc.), including the preparation of individual solid components and basic solid model assemblies (Same as Engineering 103). CSU

**MNFG 104****Solidworks Intermediate Solid Modeling**

*Formerly: Solidworks Intermediate Solid Modeling*

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: MNFG 103 or ENGR 103 with a minimum grade of C.*

Intermediate course for solid modeling using Solidworks, an industry standard engineering design software (CAD). Includes a review of the introductory class and changes to the Solidworks interface. Instruction in the use of intermediate Solidworks part modeling skills such as assembly modeling and sub-assemblies is included (Same as Engineering 104). CSU

**MNFG 105****Solidworks Advanced Solid Modeling**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: MNFG 104 or ENGR 104 with a minimum grade of C.*

Advanced course for solid modeling includes a review of the intermediate class and changes to the Solidworks interface. Instruction in the use of Solidworks part modeling, assembly modeling, sub-assemblies, advanced photoworks, and advanced animator emphasized (Same as Engineering 105). CSU

**MNFG 106****Solidworks Drawings**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: MNFG 103 or ENGR 103 with a minimum grade of C.*

Recommended Preparation: MNFG 111 or ENGR 111 with a minimum grade of C.

Creation and use of drawing templates, importing of solids data into the drawing template, and modification of the resulting drawings to company standards. CSU

## **MNFG 107**

### **CSWA Exam Prep**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

*Prerequisite: MNFG 104 with a minimum grade of C.*

The CSWA exam preparation class introduces students to the SolidWorks certification process, helps them prepare for the CSWA, using sample exams, and administers the Official SolidWorks CSWA exam. CSU

## **MNFG 111**

### **Basic Mechanical Blueprint Reading**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Reading and interpreting blueprints for manufacturing technologies. (Same as Engineering 111). CSU

## **MNFG 114**

### **Geometric Dimensioning and Tolerancing**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Drawing interpretation utilizing geometric dimensioning and tolerancing per ASME Y14.5M (formerly ANSI Y14.5M) as applied in engineering, manufacturing, and inspection. Suggested preparation: prior course or experience in drafting with conventional dimensioning and tolerancing. (Same as Engineering 114) CSU

## **MNFG 115**

### **QC1 Quality Inspection**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introductory course in Quality Control operations. Course includes dimensional inspection, completion of inspection reports, training and expectations for various quality inspector positions, as well as an introduction to various quality concepts that support inspection positions. CSU

## **MNFG 116**

### **QC Operations with Verisurf Software**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: MNFG 111 with a minimum grade of C. Introductory course in the operation of Verisurf inspection software. This course includes a review of Geometric Dimensioning and Tolerancing and operation of Verisurf software during inspection of three dimensional manufactured parts. This software is also used in creation of inspection reports as a form of data recording in a quality control environment. CSU

## **MNFG 117**

### **QC Operations with PC-DMIS CMM-1**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: MNFG 111 with a minimum grade of C.*

Recommended Preparation: MNFG 114 with a minimum grade of C.

Introductory course in the operation of PC- DMIS CMM Software. This course instructs the user how to dimension, program, and inspect features of 3D parts. Course includes dimensional explanation of relevant GD&T concepts, importing and using of CAD models, and reporting results from each activity. CSU

## **MNFG 118**

### **QC Operations with PC-DMIS CMM-2**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: MNFG 117 with a minimum grade of C.*

Recommended Preparation: MNFG 114 with a minimum grade of C. Supplementary course in the operation of PC-DMIS CMM Software. This course instructs the user in additional dimensioning, programming, and system menu options. Course includes additional instruction in probe calibrations, dimensioning options, model translations, and scanning functionality. CSU

## **MNFG 119**

### **QC2: Quality Theory**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: MNFG 115 with a minimum grade of C.*

Recommended Preparation: MNFG 114 with a minimum grade of C. Intermediate course for quality control operations. Course discusses quality theory as well advanced quality operations such as, inspection planning, calibration systems, sampling, quality tools including SPC and their implementation, auditing, corrective and preventative action, lean manufacturing concepts, and customer and supplier relationships. CSU

## **MNFG 120**

### **Introduction to Medical Device Quality**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

The course goal is to teach students an overview of quality system regulations and standard compliance used in the medical device industry. The course content will be applicable to the medical technology disciplines of manufacturing, engineering, welding, and biotechnology. This will be placed within a strategic context to generate discussion regarding the importance of quality management and to relate it to other business and organizational issues. CSU

## **MNFG 121**

### **Quality Control for Medical Devices**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

*Prerequisite: MNFG 120 with a minimum grade of C.*

The course goal is to teach students quality control elements to support the medical device industry. The course content will be applicable to the medical technology disciplines of manufacturing, engineering, welding, and biotechnology. Students will be taught the concepts and principles of quality control and gain knowledge of the relevant tools, models and techniques. The course provides "real world" applications and discussions of current and relevant topics of quality systems. CSU

## **MNFG 122**

### **Introduction to Autonomous Control and Drones**

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

This course teaches students how to safely control a drone with hardware and software. Topics include basic autonomous control, coordinate systems, methods on control, flight techniques, manufacturing of drones, design of drones, modification of drones, Unmanned Autonomous Systems, and Counter Unmanned Autonomous Systems. CSU

**MNFG 123****Payload and Sensors for the Manufacturing of Autonomous Drones**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

This course teaches students how to safely choose and use various payloads and sensors with autonomous drones. Topics include applications of payloads and sensors; use and troubleshooting of various sensors (light, ultrasonic, and GPS based); effects of payloads and sensors on autonomous drones; data gathering and processing; and latest technological advancements for autonomous drone sensor technology. CSU

**MNFG 124****Repair and Troubleshooting of Autonomous Drones**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

This course teaches students how to troubleshoot and repair autonomous drone platforms. Course content includes familiarization of drone components, disassembly and reassembly of drone platforms, preventative maintenance, common diagnostics and repair procedures, and post repair flight testing. CSU

**MNFG 128****Basic Metals Technology**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Basic metals terminology and its application in modern industry. Involves metal classification systems, destructive metal testing, metal refining, and heat treatment of various metals with resulting strength and structural changes. CSU

**MNFG 130A****CATIA Beginning Solid Modeling**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introductory course in parametric solid modeling CAD using CATIA software. Topics include: CAD overview, sketching, basic solid model creation (base features, pads, pockets, grooves, shafts, etc.), sketch constraints, reference elements, hole features, feature editing, assembly and drawing creation (Same as Engineering 130A). CSU

**MNFG 130B****CATIA Intermediate Solid Modeling**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: MNFG 130A with a minimum grade of C.

Intermediate course in parametric solid modeling CAD using CATIA software. Topics: intermediate/advanced level sketching and modeling (sweeps, ribs, slots), feature transformation, assemblies, drafting workbench, surface modeling, and other CATIA modules. (Same as Engineering 130B). CSU

**MNFG 153****Technical Mathematics**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Ratios and proportions, formulas, measurements (linear, surface, and volume), geometric construction, and right triangles. Basics of algebra, geometry, and trigonometry for the manufacturing industry. CSU

**MNFG 156A****Beginning Robotic Welding**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite:* WELD 108 with a minimum grade of C.

Corequisite: MNFG 157A or WELD 157A.

The course is a basic programming course that teaches students how to safely manipulate the robot through proper use of the robotic controller and teach pendant. This course also introduces the student to the gas metal and flux cored arc welding process. Emphasis is placed on safe operating practices, handling and storage of compressed gases, process principles, component identification, various welding techniques, and base and filler metal identification. This course is an introduction to the beginning robotic/laser technology. (Same as Welding 156A). CSU

**MNFG 156B****Intermediate Robotic Welding**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite:* MNFG 156A or WELD 156A and MNFG 157A or WELD 157A with a minimum grade of C.

Corequisite: MNFG 157B or WELD 157B.

The robotic welding course teaches students how to safely manipulate the robot through proper use of the robotic controller and Teach Pendant. Emphasis is placed on safe operating practices, handling and storage of compressed gasses, process principles, component identification and welding procedures. Students will be able to input welding procedures, jog frames, circular moves, weaving, copy, delete, commands, six point tool center and other activities related to the robotic welding process. (Same as Welding 156B). CSU

**MNFG 156C****Advanced Robotic Welding**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite:* MNFG 156B or WELD 156B with a minimum grade of C.  
*Corequisite:* MNFG 157C or WELD 157C.

The Advanced Robotic Welding course teaches students how to safely manipulate the robot through proper use of the robot controller and Teach Pendant. Emphasis is placed on safe operating practices, handling and storage of compressed gasses, process principles, component identification and welding procedures. Students will be able to create programs in robotic welding safety, TPP Management, USER Frames, coordinated motion, TAST, TAST-RPM, position registers & offsets, touch & sensing and activities relating to the robotic welding process. (Same as Welding 156C). CSU

**MNFG 157A****Basic Robotic Programming**

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

*Prerequisite:* WELD 108 with a minimum grade of C.

Corequisite: MNFG 156A or WELD 156A.

This is a basic programming course that teaches students how to safely manipulate an industrial robot through proper use of a controller. Topics include safe operating practices, linear movements, coordinate systems, Teach Pendant programming, and software/hardware integration. (Same as Welding 157A). CSU

## **MNFG 157B**

### **Intermediate Robotic Programming**

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

*Prerequisite: MNFG 156A or WELD 156A and MNFG 157A or WELD 157A with a minimum grade of C.*

*Corequisite: MNFG 156B or WELD 156B.*

This course is a programming course that teaches students how to safely manipulate an industrial robot through proper use of a controller. Topics include safe operating practices, circular movements, robot set-up, advanced Teach Pendant programming and functions, and auxiliary hardware. (Same as Welding 157B). CSU

## **MNFG 157C**

### **Advanced Robotic Programming Welding**

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

*Prerequisite: MNFG 156B or WELD 156B and MNFG 157B or WELD 157B with a minimum grade of C.*

*Corequisite: MNFG 156C or WELD 156C.*

This is an advanced programming course that teaches students how to safely manipulate an industrial robot through proper use of a controller. Topics include safe operating practices, logic commands, and coordinate systems, advanced Teach Pendant programming, network integration, simulations, and software/hardware integration. (Same as Welding 157C). CSU

## **MNFG 158**

### **Basic Machining Concepts and Operations**

Unit(s): 3.0 Class Hours: 18.0 Lecture, 126.0 Lab total.

Fundamental operations on lathes, milling machines, grinders, and drill presses, including precision measurements and layout. Equips students with skills and theory necessary to enter or upgrade within the machinist trade. CSU

## **MNFG 159**

### **Advanced Turning Concepts and Operations**

Unit(s): 3.0 Class Hours: 18.0 Lecture, 126.0 Lab total.

*Prerequisite: MNFG 158 or MNFG 188 or ENGR 158 with a minimum grade of C.*

Machine turning theory and skill development with emphasis on lathe principles, capabilities, and operations. Includes construction, tool grinding, and turning machine operations such as diameter turning and boring, external and internal single point treading. CSU

## **MNFG 168**

### **Advanced Milling Concepts and Operations**

Unit(s): 3.0 Class Hours: 18.0 Lecture, 126.0 Lab total.

*Prerequisite: MNFG 158 with a minimum grade of C.*

Advanced machine tool operation and setup with emphasis on milling machine principles, use and capabilities, accessories, and operations. Includes operations with the offset boring head and rotary table. CSU

## **MNFG 169**

### **Job Shop Skills**

Unit(s): 0.5-3.0 Class Hours: 27.0-162.0 Lab total.

*Prerequisite: MNFG 159 and MNFG 168 with a minimum grade of C.*

Experience in planning, setup and machining of a wide variety of projects using all machine tools. Students will build upon the skills and theory gained in beginning and advanced Manufacturing Technology classes or by on- the-job experience. CSU

## **MNFG 171**

### **CNC Program Writing**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Recommended Preparation: MNFG 158 and MNFG 111 with a minimum grade of C.

Introductory course for manual CNC program writing. This course will include coordinate system, absolute/incremental programming, circular interpolation, cutter radius compensation, canned cycles, and program formatting. CSU

## **MNFG 173**

### **Mastercam - 2D Geometry, 2D Toolpaths**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Computer assisted numerical control programming of machine tools using Mastercam software. Creation of 2D-part geometry. 2D-part programming including contouring, pocketing, drilling, and tapping. CSU

## **MNFG 174**

### **CNC Milling Center Set Up and Operation**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: MNFG 158 and MNFG 171 with a minimum grade of C.*

*Corequisite: MNFG 096.*

Basic setup and operation of numerically controlled milling machines. Students will set up and operate a 3 axis CNC milling machine. Requires enrollment in 1.5 hours of scheduled lab for .5 unit. Labs are scheduled at the first class meeting. CSU

## **MNFG 175**

### **Mastercam - 3D Geometry, 3D Surfaces**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: MNFG 173 with a minimum grade of C.*

Continued instruction of computer assisted numerical control programming. Advanced concepts and methods of creating 3D geometry and 3D surfaces using Mastercam 3D software. CSU

## **MNFG 176**

### **CNC Turning Center Set Up and Operation**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: MNFG 158 and MNFG 171 with a minimum grade of C.*

*Corequisite: MNFG 096.*

Setup and operation of numerically controlled lathe with emphasis on the application of the Fanuc controlled machine and CNC machining methods used in industry. Requires enrollment in 1.5 hours of scheduled lab for .5 unit. Labs are scheduled at the first class meeting. CSU

## **MNFG 177**

### **Mastercam - 3D Toolpath and CAM Applications**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: MNFG 175 with a minimum grade of C.*

Advanced concepts in the manufacturing of machine parts using MASTERCAM software and CNC machining centers. Emphasis placed on programming and machining 3 dimensional surfaces. Problem solving in roughing, finishing, fixturing, and machining of a variety of part configurations. CSU

**MNFG 178****Mastercam Lathe**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: MNFG 171 and MNFG 173 with a minimum grade of C.*

Computer assisted numerical control programming of machine tools using MASTERCAM lathe software. Emphasis placed on lathe toolpaths: facing, turning, grooving, boring, and threading. CSU

**MNFG 184****Advanced CNC Mill Set Up and Operation**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: MNFG 171 and MNFG 174 with a minimum grade of C.*

Corequisite: MNFG 096.

Advanced set-up and operation of CNC Machining Center. Student will learn the advanced concepts in set up and operation of the state-of-the-art milling equipment. Course curriculum will include instruction on boring cycles, reaming cycle, thread milling, 4th AXIS rotary table, and multiple fixture offsets. Requires enrollment in 1.5 hours of scheduled lab per week for .5 unit. Lab hours are scheduled at the first class meeting. CSU

**MNFG 186****Advanced CNC Lathe Programming, Setup and Operation**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: MNFG 171 and MNFG 176 with a minimum grade of C.*

Corequisite: MNFG 096.

Advanced programming, set-up, and operation of CNC lathe. Course curriculum will include instruction on C-Axis with live tooling option, subprogram for C-Axis, tapered I.D. and O.D. thread, canned cycles, uses of digital probe for tool offset, and programmable tailstock. Requires enrollment in 1.5 hours of scheduled lab per week for .5 unit. Lab hours are scheduled at the first class meeting. CSU

**MNFG 188****Machine Technology Survey**

Unit(s): 3.0 Class Hours: 18.0 Lecture, 126.0 Lab total.

Machine tool set-up and operation for students who desire general knowledge of machine tools and processes. All the basic machine tools are used. Not intended for Manufacturing Technology majors. (Same as Engineering 188) CSU

**MNFG 194****CNC Horizontal Mill Setup and Operation**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: MNFG 171 and MNFG 174 with a minimum grade of C.*

Corequisite: MNFG 096.

Set-up and operation of CNC Horizontal Machining Center. Students will learn the concepts necessary for set-up and operation of the state-of-the-art horizontal milling machine. Course curriculum will include instruction on multi fixtures, rapid pallet changing, and ability to machine several sides at once with a single set-up using fully programmable 4th axis to boost productivity, cut lead times, and lower production costs. Corequisite enrollment required in MNFG 096. Student must complete 27 hours of scheduled lab per semester to earn .5 units for lab. CSU

**MNFG 195****Mastercam 5 Axis Mill Toolpath and Application**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: MNFG 174 and MNFG 175 with a minimum grade of C.*

Students will use Mastercam Software and Blade Expert to create various Multi Axis Toolpaths. Course includes programming, setup and operation of a 5-Axis DMU-50 milling machine with Siemens CNC control to complete various student's group projects. CSU

**MARKETING (MKTG)****MKTG 111****Principles of Retailing**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Overview of the retail industry. Structure, scope, and evolution of retail institutions; retail decision making is emphasized in relation to the following topics: organization and store management; merchandise assortment, pricing, and layout; identifying markets; and advertising, promotion, and sales. CSU

**MKTG 113****Principles of Marketing**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The process of developing products that will satisfy the many needs of consumers and businesses. Includes market research techniques, pricing, distribution, and promotion. CSU

**MKTG 116****Global Marketing: Selling Around the World**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Learn how to adapt marketing techniques to international markets, how to develop marketing strategies, and how to target markets based on the cultural, political and economic environments. Learn how to create forecasts and budgets for international markets. (Same as Business 116) CSU

**MKTG 120****Understanding Consumer Behavior - Getting them to Buy, Buy, Buy**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

This course will explore the science, mechanics, dynamics, and culture of consumers and their behavior. Understanding your consumer leads to long-term relationships, which translates to sales and profits for your business. Students will learn how to analyze consumer behavior using the latest tools, techniques, and technology. CSU

**MKTG 121****Negotiating - Getting to a Win-Win**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Learn the techniques of successfully negotiating a Win-Win business transaction. By learning the different negotiating styles, students will gain skills working with customers in all business segments. CSU

**MKTG 122****Sales Strategies that Build Business Relationships & Increase Sales**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Learn how professional sales people build relationships with customers and clients that lead to increased sales. Learn how to effectively communicate, persuade, overcome objections, and close the deal. CSU

**MKTG 123****Marketing and Technology - Trends and Cutting Edges**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

This course will cover the latest trends in mixed marketing technologies. Learn to use the latest technologies to drive awareness, create demand, and close sales. Discover the latest trends, strategies, and tools for using technology for marketing - what they are, how they work, and how to get started. CSU

**MKTG 124****Cause Marketing and Public Relations - Doing Well by Doing Good**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

This course will cover how companies can be successful by doing good, helping society and people. Learn about not-for-profit businesses and socially responsible for-profit businesses. Learn how authentic corporate giving, cause marketing, and the power of public relations can help drive the triple bottom line-profits, people and planet. CSU

**MKTG 125****Advertising & Promotion - Get the Word Out & Keep your Customers Buying**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This course will provide students with an in-depth look into cutting-edge advertising and promotion strategies used by small, medium, and large companies. Students will learn how to create an advertising campaign, including the planning, costs, and creative design process. Students will learn how promotions are used to increase sales, to build brand loyalty, and to build relationship with customers. CSU

**MKTG 126****Distributing Products & Services - Reaching Customers Where They Shop**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This course will teach the latest and most cost-effective strategies to reach your customer. Students will learn how an efficient B2B and/or B2C distribution system utilizing marketing intermediaries, direct sales, online distribution, and global markets can increase profits. Supply Chain strategies, channel evaluation, and relationships will be highlighted. CSU

**MKTG 127****Introduction to E-Commerce**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Electronic commerce from a managerial perspective focusing on the retailing, business-to-business, and service industries. Topics include e-commerce infrastructure, intranets and extranets, electronic payment systems, marketing research, advertising, e-commerce strategies, and privacy issues (Same as Business 127). CSU

**MATHEMATICS (MATH)****MATH N06****Essential Mathematics**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: A student will be placed in Math N06 if they do not qualify for Math N48 or a higher course according to the Santa Ana College Math Department's placement standards.*

Reviews whole numbers, fractions, decimals, percent, geometric formulas and signed numbers. Not applicable to associate degree.

**MATH N48****Pre-Algebra/Algebra Basics**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

For students who have little or no previous algebra experience. This course offers an introduction to basic algebra concepts, math vocabulary, and algebraic operations. This course is intended to be a bridge from basic arithmetic to elementary algebra. Not applicable to associate degree.

**MATH 019****Support for Math 219 Probability and Statistics**

Unit(s): 0.5 Class Hours: 36.0 Lab total.

Corequisite: MATH 219.

*A review of mathematics needed to be successful in Probability and Statistics. Topics are drawn from Pre-Algebra and Algebra. Intended to be taken concurrently with Math 219 for students who did not directly place into Math 219 or for students who would like to supplement their learning with prerequisite skills.*

**MATH 030****Coping with Math Anxiety**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Covers the concept of math anxiety - what causes it and how to overcome it. Includes review and practice of basic math skills.

**MATH 040****Support for College Algebra**

Unit(s): 0.5 Class Hours: 36.0 Lab total.

Corequisite: MATH 140.

*A review of mathematics topics from Elementary and Intermediate Algebra which are needed to be successful in College Algebra. Intended to be taken concurrently with College Algebra (Math 140) for students who did not directly place into Math 140, or for students who would like to supplement their learning with prerequisite skills.*

**MATH 083****Beginning and Intermediate Algebra for Liberal Arts and Social Science**

Unit(s): 6.0 Class Hours: 108.0 Lecture total.

A combined course in algebra that includes systems of equations, inequalities, graphs and functions, radicals, quadratic polynomials, rational expressions, exponential and logarithmic functions, and problem solving aimed specifically at liberal arts and social science majors.

**MATH 084****Beginning and Intermediate Algebra**

Unit(s): 6.0 Class Hours: 108.0 Lecture total.

A combined course in algebra that includes systems of equations; inequalities, graphs and functions; radicals, quadratic polynomials, rational expressions; exponential and logarithmic functions, and problem solving.

**MATH 105****Mathematics for Liberal Arts Students**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: MATH 083 or MATH 084 with a minimum grade of C OR equivalent skills as measured by placement into Math 105 according to the Santa Ana College Math Department's placement standards.*

An overview of mathematics for the liberal arts student. Topics will include problem solving, financial management, probability, statistics, and selected other topics such as set of theory, geometry, logic, mathematical modeling, and the history of mathematics. CSU/UC

**MATH 140****College Algebra**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: MATH 084 with a minimum grade of C OR equivalent skills as measured by placement into Math 140 according to the Santa Ana College Math Department's placement standards.*

Survey of advanced topics in algebra: equations, inequalities and functions involving polynomials, rationales, exponentials, and logarithms with applications and graphing; sequences and series. CSU/UC

**MATH 141 (NOTE: Only 4 of 4.5 units are UC transferable)****College Algebra with Support**

Unit(s): 4.5 Class Hours: 72.0 Lecture, 36.0 Lab total.

*Prerequisite: MATH 084 with a minimum grade of C OR equivalent skills as measured by placement into Math 140 according to the Santa Ana College Math Department's placement standards.*

Survey of advanced topics in algebra: equations, inequalities and functions involving polynomials, rationales, exponentials, and logarithms with applications and graphing; sequences and series. Course includes just-in-time review of topics from arithmetic, Elementary Algebra, Intermediate Algebra, and/or other topics as necessary. Intended for students who did not directly place into Math 140 or for students who would like to supplement their learning with prerequisite skills needed for College Algebra. CSU/UC

**MATH 145 (C-ID MATH 130)****Finite Mathematics**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: MATH 084 with a minimum grade of C OR equivalent skills as measured by placement into Math 145 according to the Santa Ana College Math Department's placement standards.*

Linear systems and matrix algebra, linear programming and the simplex method, algebra of sets, introduction to probability and counting, the binomial distribution, descriptive statistics, introduction to the normal curve.

Application to the fields of business, economics, and biological and behavioral sciences are emphasized. CSU/UC

**MATH 150 (C-ID MATH 140)****Calculus for Biological, Management and Social Sciences**

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

*Prerequisite: MATH 140 OR Math 145 with a minimum grade of C OR placement into Math 150 according to the Santa Ana College Math Department's placement standards. MATH 140.*

Single and multi-variable calculus including limits, derivatives, integrals, exponentials, and logarithmic functions and partial derivatives. Applications are drawn from biology, social science, and business. CSU/UC

**MATH 162 (C-ID MATH 851)****Trigonometry**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: MATH 140 with a minimum grade of C OR equivalent skills as measured by placement into Math 162 according to the Santa Ana College Math Department's placement standards.*

Angles and their measurement, trigonometry functions and their applications, including vector problems. Use of trigonometric identities. Graphing the basic functions and variations, solving trigonometric equations. Graphing using polar coordinates, and use of complex numbers. CSU

**MATH 170 (C-ID MATH 155)****Pre-Calculus Mathematics**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: MATH 162 with a minimum grade of C OR equivalent skills as measured by the Math Level 4 Exam and a course equivalent to Mathematics 160.*

Advanced algebraic topics. Study of rational, trigonometric, exponential and logarithmic functions, and analytic geometry. Preparation for Mathematics 180. CSU/UC

**MATH 180 (C-ID MATH 210, C-ID MATH 900S = MATH 180 or 180H + MATH 185)****Single Variable Calculus I**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: MATH 140, MATH 162 OR MATH 170 with a minimum grade of C OR equivalent skills as measured by placement into Math 180 according to the Santa Ana College Math Department's placement standards.*

Limits and continuity, derivatives and integrals of algebraic, trigonometric, and other transcendental functions. Applications including extrema tests, related rates, and areas. CSU/UC

**MATH 180H (C-ID MATH 210 C-ID MATH 900S = MATH 180 or 180H + MATH 185))****Honors Single Variable Calculus I**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students) AND Mathematics 170 with a minimum grade of C or better or equivalent skills as measured by the Mathematics Level 4 Exam and a course equivalent to Mathematics 170.*

An in-depth study of limits and continuity, derivatives and integrals of algebraic, trigonometric, and other transcendental function with the emphasis on theory and challenging problems. Applications include extrema tests, related rates and areas, volumes, arc length, and surface areas. CSU/UC

**MATH 185 (C-ID MATH 220, C-ID MATH 900S= MATH 180 OR 180H + MATH 185)****Single Variable Calculus II**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: MATH 180 or MATH 180H with a minimum grade of C.*

Applications of integrals, including volumes, work, arc length, and surface area. Integration techniques, differential equations, conics, parametric equations, polar coordinates, improper integrals, sequences, and infinite series. CSU/UC

**MATH 204 (C-ID MATH 120)****Mathematical Concepts for Elementary School Teachers**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: MATH 083 or MATH 084 with a minimum grade of C OR equivalent skills as measured by placement into Math 204 according to the Santa Ana College Math Department's placement standards.*

Designed for prospective elementary teachers, the course emphasizes problem solving techniques and mathematical structure associated with numeration, set theory, elementary number theory, real number system, ratio, proportion, and percent. The course includes instructional delivery design and activity-based explorations. CSU/UC



**MATH 204L****Mathematics Content for Elementary Math Teachers (Lab)**

Unit(s): 0.5 Class Hours: 36.0 Lab total.

Corequisite: MATH 204.

Students in Math 204L will receive individual and/or group instruction advancing students conceptual understanding of the mathematics needed to teach elementary school. Instruction integrates hand-ons learning, projects, and presentations. (Pass/No Pass Only) CSU

**MATH 219 (C-ID SOCI 125, C-ID MATH 110)****Statistics and Probability**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: MATH 083 OR MATH 084 with a minimum grade of C OR equivalent skills as measured by placement into Math 219 according to the Santa Ana College Math Department's placement standards.*

Beginning course in statistics. Includes descriptive statistics, graphical displays of data, probability, confidence intervals, hypothesis testing, regression, contingency tables, ANOVA, and non-parametric statistics. Includes use of technology. CSU/UC

**MATH 219H (C-ID SOCI 125, C-ID MATH 110)****Honors Statistics and Probability**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students) AND MATH 083 or MATH 084 with a minimum grade of C or equivalent skills as measured by placement into Math 219 according to the Santa Ana College Math Department's placement standards.*

Enhanced format for the beginning course in statistics and probability, using a seminar approach and computers and individual research, and presentations. Includes descriptive statistics, graphical displays of data, probability, confidence intervals, hypothesis testing, regression, contingency tables, ANOVA, and non-parametric statistics, with applications designed around the individual interests of students. CSU/UC

**MATH 221 (C-ID MATH 110)****Statistics and Probability with Support**

Unit(s): 4.5 Class Hours: 72.0 Lecture, 36.0 Lab total.

*Prerequisite: MATH 083 or MATH 084 with a minimum grade of C OR equivalent skills as measured by placement into Math 221 according to the Santa Ana College Math Department's placement standards.*

*Beginning course in statistics. Includes descriptive statistics, graphical displays of data, probability, confidence intervals, hypothesis testing, regression, contingency tables, ANOVA, and non-parametric statistics. Includes use of technology. Integrated review includes concepts from arithmetic, pre-algebra, elementary and intermediate algebra, and critical thinking skills from descriptive statistics that are needed to understand the basics of college-level statistics. Intended for students who did not directly place into Math 219 or for students that would like to supplement their learning with prerequisite skills needed for Statistics. CSU/UC*

**MATH 280 (C-ID MATH 230)****Intermediate Calculus**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: MATH 185 with a minimum grade of C.*

Vectors and three-dimensional space, functions of several variables, partial derivatives, and multiple integrals. Vector calculus, Green's Theorem, Stoke's Theorem, and the Divergence Theorem. CSU/UC

**MATH 287 (C-ID MATH 910S)****Introduction to Linear Algebra and Differential Equations**

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

*Prerequisite: MATH 280 with a minimum grade of C.*

Topics include matrices, determinants, vector spaces, linear systems of equations, linear product spaces, first and second order differential equations, systems of differential equations, and the Laplace transform. CSU/UC

**MATH 319****Quantitative Research Methods for Healthcare Professionals**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: MATH 219 or MATH 219H or PSYC 210 with a minimum grade of C. Limitation on enrollment: Student must be admitted to the Occupational Studies program*

*This course will develop skills and tools for understanding and performing quantitative research in healthcare sciences. The focus of the course will be on statistical research methods prevalent in healthcare sciences: including principles of experimental design, appropriate sampling, and running quantitative tests to determine the validity of claims.*

**MEDICAL ASSISTANT (MA)****MA 001****Cooperative Work Experience Education - Occupational**

Unit(s): 1.0-4.0 Class Hours: 60.0-300.0 Lab total.

*Prerequisite: MA 051A, MA 051B, MA 053 and MA 055 with minimum grade of C.*

This work experience course of supervised employment is designed to assist students to acquire desirable work habits, attitudes and skills in a field related to the students' major so as to enable them to become production employees. This course also provides students with career awareness for jobs. 75 hours of paid work or 60 hours of un-paid work equals one unit of course credit. Student repetition is allowed per Title 5, Section 55253.

**MA 020****Bloodborne and Airborne Pathogen Standards**

Unit(s): 0.5 Class Hours: 9.0 Lecture total.

Presentation of California Occupational Safety and Health Act (Cal-OSHA) Bloodborne and Airborne Pathogen Standards for occupational at-risk exposure to hepatitis, HIV-AIDS, and Tuberculosis including compliance requirements, exposure control measures, exposure determination, protective equipment, and post exposure practices.

**MA 030****Phlebotomy**

Unit(s): 1.0 Class Hours: 13.5 Lecture, 13.5 Lab total.

This phlebotomy course is designed for health care workers and provides a comprehensive introduction to the practice of phlebotomy, with focus on safety procedures, equipment and point-of-care testing.

**MA 051A****Beginning Medical Terminology**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduction to medical terms including structural analysis of prefixes, combining form/roots, and suffixes. Emphasis on terms related to anatomy, physiology, diagnostic tests and pathology of the digestive, renal-urinary, and reproductive systems. Also, terms related to pregnancy and the newborn.

**MA 051B****Advanced Medical Terminology**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: MA 051A with a minimum grade of C.*

Continuation of MA 051A. Includes medical terms related to anatomy, physiology, diagnostic tests and pathology of the nervous, cardiovascular, respiratory, circulatory, musculoskeletal, skin, sensory, and the endocrine systems.

**MA 053****Medical Assistant - Administrative Front Office**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Medical front office training including the role, responsibilities, professionalism, medical ethics and laws, medical records, filing, billing and collection, banking, bookkeeping, reception, telephone techniques, oral and written communication, resume, and job seeking skills. Also includes a unit on office first aid and life threatening illnesses.

**MA 054****Medical Insurance and Billing Forms**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: MA 051A with a minimum grade of C.*

Instruction in the rules, regulations, and completion of medical insurance forms for Medicare, Medi-Cal, Tricare, MediMedi, State Disability, Worker's Compensation, and private commercial insurance carriers. Includes legal and ethical guidelines, and instruction in procedure coding using current procedural terminology and ICD-10-CM.

**MA 055****Medical Assistant - Clinical Back Office**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Medical back office with emphasis on asepsis, sterilization, gloving and ungloving, assisting physician with exams and minor office surgical procedures, vital signs, vision testing, wound care, dressings, bandaging, specimen collections, medications, dosage calculations and injection techniques.

**MA 056****Computer Applications for the Medical Office**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: MA 051A and MA 053 with a minimum grade.*

An introduction to the computer with practical applications for a medical office/clinical setting, including building patient databases, patient scheduling, procedure codes, and diagnostic codes. Generate computerized billing records, posting to accounts, insurance claims forms, generating reports, electronic data interchange and electronic medical records.

**MA 098-00****Topic Course**

Unit(s): 0.5-3.0 Class Hours: 9.0-54.0 Lecture total.

Courses on a variety of contemporary topics will be offered to meet the interests and needs of students in Medical Assisting.

**MUSIC (MUS)****MUS 009A****Music Laboratory**

Unit(s): 0.3 Class Hours: 18.0 Lab total.

*Prerequisite: concurrent enrollment in a music course.*

Supervised work on instrumental, vocal, music theory, or digital music assignments and projects. Beginning level assignments are geared toward attainment of skills relating to the corequisite music class. Accumulation of 16 hours earns 0.3 unit.

**MUS 009B****Music laboratory II**

Unit(s): 0.3 Class Hours: 18.0 Lab total.

*Prerequisite: MUS 009A with a minimum grade of C AND concurrent enrollment in a music class.*

Supervised work on instrumental, vocal, music theory, or digital music assignments and projects. More advanced beginning level assignments are geared toward attainment of skills relating to the corequisite music class.

Accumulation of 16 hours earns 0.3 unit.

**MUS 009C****Music Laboratory III**

Unit(s): 0.3 Class Hours: 18.0 Lab total.

*Prerequisite: MUS 009B with a minimum grade of C and concurrent enrollment in a music class.*

Supervised work on instrumental, vocal, music theory, or digital music assignments and projects. Intermediate level assignments are geared toward attainment of skills relating to the corequisite music class. Accumulation of 16 hours earns 0.3 unit.

**MUS 009D****Music Laboratory IV**

Unit(s): 0.3 Class Hours: 18.0 Lab total.

*Prerequisite: MUS 009C with a minimum grade of C and concurrent enrollment in a music class.*

Supervised work on instrumental, vocal, music theory, or digital music assignments and projects. Advanced level assignments are geared toward attainment of skills relating to the corequisite music class. Accumulation of 16 hours earns 0.3 unit.

**MUS 101 (C-ID MUS 100)****Music Appreciation**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Designed to increase awareness and appreciation of music from the European classical tradition in relation to general culture and history. Develops basic understanding of musical elements and deepens student's experience of music. Recommended for non- music majors. CSU/UC

**MUS 101H (C-ID MUS 100)****Honors Music Appreciation**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

An enriched approach designed for honors students. The European classical music tradition through study of musical elements, stylistic features, culture, and history.

Readings, guided listening assignments, required concert attendance, and special projects. Recommended for non-music majors. CSU/UC

**MUS 102****World Music**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Music from the Far East, Southeast Asia, Africa, the Middle East, Europe and the Americas. Students are guided to enjoy and to understand music from diverse cultures. Investigation of the interconnections of culture, aesthetics, and musical styles. Concert attendance and assigned listening required. CSU/UC

**MUS 102H****Honors World Music**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

An enriched, in-depth study of music from Asia, Africa, the Middle East, Europe, and the Americas. Seminar-style critical investigation of the interconnections of style, culture, and aesthetics to promote enjoyment and understanding of world music. CSU/UC

**MUS 103****Jazz in America**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A historical survey of the development and evolution of jazz in America from its earliest roots in African and European music. The study will also include the social and economic conditions which influenced this art form. CSU/UC

**MUS 104****Rock Music History and Appreciation**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Historical survey of rock music from its beginnings in the 50's to the present. Major rock and pop styles will be discussed. Personalities and musical styles will be related to the social, political, and cultural context of the time. CSU/UC

**MUS 105****Film Music Appreciation**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A study of the history and development of film music in the twentieth and twenty-first century. Students are guided through a critical examination of a variety of music soundtracks by prominent composers and will explore how the music reflects changes in our society and culture. CSU/UC

**MUS 109****Reading and Making Music**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Introduction to music reading. Practical experience in learning how to perform melodies, rhythms, and simple chords from a written score. Recommended for beginning instrumental and voice students and those preparing for music theory. CSU/UC

**MUS 110 (C-ID MUS 110)****Music Fundamentals and Culture**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to the notation and primary elements of tonal music throughout history from Western and other global cultures. Examples from music literature will demonstrate staff notation in treble and bass clefs, rhythm and meter; basic properties of sound; intervals; diatonic scales and triads; and diatonic chords. History and social context of these concepts will be discussed. Development of skills in handwritten notation is expected. CSU/UC

**MUS 111 (C-ID MUS 120, C-ID MUS 125)****Basic Music Theory and Musicianship I**

Unit(s): 4.0 Class Hours: 72.0 Lecture, 18.0 Lab total.

Introductory level course in music theory and its applications in traditional and modern musical practice. Includes detailed study of rhythm, notation, scales, intervals, chords, diatonic harmony, and voice leading as well as sight singing and other musicianship skills. Ability to read music in at least one clef recommended. Required of music majors; open to non-majors. CSU/UC

**MUS 112 (C-ID MUS 130, C-ID MUS 135)****Music Theory and Musicianship II**

Unit(s): 4.0 Class Hours: 72.0 Lecture, 18.0 Lab total.

*Prerequisite: MUS 111 with a minimum grade of C.*

Continued study of harmony and ear training. Includes writing phrases and cadences, non-harmonic tones, harmonization, voice leading, melodic construction, figured bass, chord progression, and keyboard harmony. Required for music majors; open to non-majors. CSU/UC

**MUS 113A****Basic Musicianship Skills**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Ear training and in-class sight-singing preparation for students not ready for Music 114A. Arranged hours in Music Lab for computer programs and ear training computer programs. Basic knowledge of scales, intervals, and major key signatures recommended. A combination of MUS 113A and MUS 113B and MUS 114A and MUS 114B may be taken a maximum of four enrollments. (Pass/No Pass Only) CSU/UC

**MUS 113B****Musicianship Skills**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

*Prerequisite: MUS 113A with a minimum grade of C.*

Continued ear training and in-class sight-singing preparation for students not ready for Music 114A. Arranged hours in Music Lab for computer programs and ear training programs. Basic knowledge of scales and intervals recommended. A combination of MUS 113A and MUS 113B and MUS 114A and MUS 114B may be taken a maximum of four enrollments. (Pass/No Pass Only) CSU/UC

**MUS 114A (C-ID MUS 145)****Musicianship**

Unit(s): 1.0 Class Hours: 54.0 Lab total.

*Prerequisite: MUS 112 with a minimum grade of C.*

Competency-based sight-singing, rhythm, ear training, and dictation (melodic/harmonic) for performers and transferring music majors. Ear training software in the Music Lab is used for aural exercises. A combination of MUS 113A and MUS 113B and MUS 114A and MUS 114B may be taken a maximum of four enrollments. CSU/UC

**MUS 114B (C-ID MUS 155)****Musicianship**

Unit(s): 1.0 Class Hours: 54.0 Lab total.

*Prerequisite: MUS 114A with a minimum grade of C.*

Competency-based sight-singing, rhythm, ear training, and dictation (melodic/harmonic) for performers and transferring music majors. Ear Training software in the Music Lab is used for aural exercises. B semester uses more advanced materials. A combination of MUS 113A and MUS 113B and MUS 114A and MUS 114B may be taken a maximum of four enrollments. CSU/UC

**MUS 115A (C-ID MUS 160)****Applied Music (Private Instruction)**Unit(s): 1.5 Class Hours: 92.0 Lab total.*Prerequisite: Audition and concurrent enrollment in either a music ensemble or music theory course.*

Weekly lesson in voice, piano, band/orchestral instrument, or classical guitar. Five hours on-campus practice per week and attendance at weekly recital required. B, C, and D semesters require study of more advanced repertoire. No more than a total of 4 semesters of credit may be earned in a combination of Music 115ABCD and 215. Requires audition and concurrent enrollment in either a music ensemble or music theory course. A combination of MUS 115A, MUS 115B, MUS 115C, MUS 115D and MUS 215 may be taken a maximum of four enrollments. CSU/UC

**MUS 115B (C-ID MUS 160)****Applied Music (Private Instruction)**Unit(s): 1.5 Class Hours: 92.0 Lab total.*Prerequisite: Audition and concurrent enrollment in either a music ensemble or music theory course.*

Weekly lesson in voice, piano, band/orchestral instrument, or classical guitar, covering more advanced repertoire than Music 115A. Five hours on-campus practice per week and attendance at weekly recital required. Requires audition and concurrent enrollment in either a music ensemble or music theory course. A combination of MUS 115A, MUS 115B, MUS 115C, MUS 115D and MUS 215 may be taken a maximum of four enrollments. CSU/UC

**MUS 115C (C-ID MUS 160)****Applied Music (Private Instruction)**Unit(s): 1.5 Class Hours: 92.0 Lab total.*Prerequisite: Audition and concurrent enrollment in either a music ensemble or music theory course.*

Weekly lesson in voice, piano, band/orchestral instrument, or classical guitar, covering more advanced repertoire than Music 115B. Five hours on-campus practice per week and attendance at weekly recital required. Requires audition and concurrent enrollment in either a music ensemble or music theory course. A combination of MUS 115A, MUS 115B, MUS 115C, MUS 115D and MUS 215 may be taken a maximum of four enrollments. CSU/UC

**MUS 115D (C-ID MUS 160)****Applied Music (Private Instruction)**Unit(s): 1.5 Class Hours: 92.0 Lab total.*Prerequisite: Audition and concurrent enrollment in either a music ensemble or music theory course.*

Weekly lesson in voice, piano, band/orchestral instrument, or classical guitar, covering more advanced repertoire than Music 115C. Five hours on-campus practice per week and attendance at weekly recital required. Requires audition and concurrent enrollment in either a music ensemble or music theory course. A combination of MUS 115A, MUS 115B, MUS 115C, MUS 115D and MUS 215 may be taken a maximum of four enrollments. CSU/UC

**MUS 121****Beginning Voice**Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Group instruction designed to develop basic principles of solo and choral voice production, diction, breath control, and posture. Practice outside of class required. Recommended for non-music majors and for music majors not studying privately. A combination of MUS 121, MUS 122, MUS 123 and MUS 124 may be taken a maximum of four enrollments. CSU/UC

**MUS 122****Intermediate Voice**Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.*Prerequisite: MUS 121 with a minimum grade of C.*

Group instruction designed to develop intermediate principles of solo and choral voice production, diction, breath control, and posture. Vocal analysis of each student emphasized. Practice outside of class required. Song literature matched to student level. Designed for both music majors and non-music majors. A combination of MUS 121, MUS 122, MUS 123 and MUS 124 may be taken a maximum of four enrollments. CSU/UC

**MUS 123****Advanced Voice**Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.*Prerequisite: MUS 122 with a minimum grade of C.*

Group instruction designed to present advanced vocal exercises for solo and choral vocal production. Instruction includes song literature in English and several foreign languages. Practice outside of class required. Designed for both music majors and non-music majors. A combination of MUS 121, MUS 122, MUS 123 and MUS 124 may be taken a maximum of four enrollments. CSU/UC

**MUS 124****Advanced Vocal Production and Repertoire**Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.*Prerequisite: MUS 123 with a minimum grade of C.*

Continuation of group instruction for students who have completed three semesters of voice and can perform at an advanced level. Further develops advanced vocal and choral production through a variety of vocal styles and techniques. Instruction includes advanced English and foreign language song literature. Practice outside of class required. Designed for both music majors and non-music majors. A combination of MUS 121, MUS 122, MUS 123 and MUS 124 may be taken a maximum of four enrollments. CSU/UC

**MUS 135 (C-ID MUS 180)****Concert Chorale**Unit(s): 1.0 Class Hours: 54.0 Lab total.*Prerequisite: Audition.*

Rehearsal and performance of standard and current choral repertoire. Designed to train students in mixed ensemble singing. Public performance emphasized. Each semester requires performance of a variety of new and different repertoire. Designed for students who have basic singing skills. May be repeated. CSU/UC

**MUS 136****Collegiate Choir**Unit(s): 1.0 Class Hours: 54.0 Lab total.

Mixed chorus which rehearses and performs a variety of music, including classical, folk tunes, and songs from Broadway musicals. Each semester requires performance of new repertoire. May be repeated. CSU/UC

**MUS 137 (C-ID MUS 180)****Chamber Choir**Unit(s): 1.0 Class Hours: 72.0 Lab total.*Prerequisite: Audition.*

Rehearsal and performance of chamber choir repertoire from various historical periods. Course designed for festival and concert performance. Each semester requires the performance of new repertoire. May be repeated. CSU/UC

## **MUS 140**

### **Instrumental Methods for Winds and Percussion**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Instrumental instruction on woodwinds, brass, or percussion in an ensemble setting at the beginning and intermediate levels. Fundamental skills developed through rehearsal and in-class performance of technical exercises and beginning band repertoire. CSU/UC

## **MUS 141**

### **Instrumental Ensembles**

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Study, rehearsal, and performance of music for small commercial instrumental groups. Music literature will differ each semester. Previous instrumental performance experience recommended. May be repeated. CSU/UC

## **MUS 142**

### **Creating Music on the Digital Audio Workstation**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Basic techniques in creating music with computer assisted technology, including the production of software instrument tracks, drum track programming, audio recording, editing, mixdown, and use of the software sampler. Students learn practical applications through creation of musical projects. CSU

## **MUS 143**

### **Intermediate Techniques on the Digital Audio Workstation**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

*Prerequisite: MUS 142 with a minimum grade of C.*

Intermediate techniques in creating music with computer assisted technology including digital sound manipulation, time and pitch editing, virtual mixing, auxiliary tracks, MIDI effects, and use of the software sampler. Students learn practical applications and electronic composition through creation of musical projects. CSU

## **MUS 144**

### **Projects in Electronic Music**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

*Prerequisite: MUS 143 or MUS 147 with a minimum grade of C.*

Exploration of digital recording and MIDI concepts for commercial applications. Individual projects will improve and extend students' skills in the areas of composition, sequencing, and recording. Assignments will help prepare students for Level 1 certification in Logic. CSU

## **MUS 145**

### **Jazz Improvisation and Performance Workshop**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Performance and analysis of jazz standards and popular pieces in a practical workshop setting. Elements of improvisation and ensemble playing are stressed. Assumes a rudimentary understanding of chords and scales. Open to all instrumentalists and vocalists. CSU/UC

## **MUS 146**

### **Digital Recording Studio Techniques I**

Unit(s): 2.0 Class Hours: 27.0 Lecture, 27.0 Lab total.

Introductory class in computer-based hard disk recording. Emphasis on digital sound manipulation, editing, mixdown, and microphone techniques. CSU

## **MUS 147**

### **Digital Recording Studio Sound Design**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Techniques of sound design in the digital recording studio including creation of sampler instruments, classic analog synthesizer programming, and other techniques of original sound creation using digital audio manipulation. Some prior experience on a digital audio workstation recommended. CSU

## **MUS 148**

### **Music Scoring for Film and Multimedia**

Unit(s): 2.0 Class Hours: 27.0 Lecture, 27.0 Lab total.

Techniques of scoring music, audio, and sound effects to video and multimedia. Compositional elements of scoring to picture as well as technical elements of creating digital audio tracks are covered. Experience with digital recording and/or working with a digital audio workstation is necessary. CSU/UC

## **MUS 149**

### **The Business of Music**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Introduction to the business and legal aspects of the music industry. This course covers current trends and issues for performing and recording careers in music. Topics include copyright, royalties, recording contracts, performing rights organizations, publishing, and publicity. CSU

## **MUS 152**

### **Beginning Audio Production**

Unit(s): 3.0 Class Hours: 54.0 Lecture, 18.0 Lab total.

Introduction to the theory and practice of audio production for radio, stage, television, film and digital recording applications. Students will learn the fundamentals of sound design and aesthetics, microphone use, and digital recording equipment. Students gain hands on experience recording, editing, mixing and mastering audio. Upon completion, students will have basic knowledge of applied audio concepts, production workflow, equipment functions, and audio editing software. (same as Digital Media 152) CSU/UC

## **MUS 153**

### **Introduction to Game Audio**

Unit(s): 2.0 Class Hours: 27.0 Lecture, 27.0 Lab total.

Introduction to the techniques and implementation of audio production in game design including the incorporation of music, dialog and sound effects. Recording, editing, digital effect application, looping, layering, and mixing for an interactive game environment are covered. CSU

## **MUS 161**

### **Class Piano I**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Group instruction for beginners emphasizing note reading, basic keyboard skills, chord patterns and sight reading. Practice outside of class required. Practice pianos available on campus. Required for music majors whose principal instrument is not piano. A combination of MUS 161, MUS 162, MUS 163, MUS 164A and MUS 164B may be taken a maximum of four enrollments. CSU/UC

**MUS 162****Class Piano II**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

*Prerequisite: MUS 161 with a minimum grade of C.*

Group instruction for those possessing basic piano skills, but still classified as beginners. Emphasizes note reading, keyboard technique, chord patterns, and sight-reading. Daily practice required. Practice pianos available on campus. Required for music majors whose principal instrument is not piano. A combination of MUS 161, MUS 162, MUS 163, MUS 164A and MUS 164B may be taken a maximum of four enrollments. CSU/UC

**MUS 163****Class Piano III**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

*Prerequisite: MUS 162 with a minimum grade of C.*

Instruction for students who have completed two semesters of piano and are ready for the intermediate level. Emphasizes building technique, sight reading, and performance. Daily practice required. Practice pianos available on campus. A combination of MUS 161, MUS 162, MUS 163, MUS 164A and MUS 164B may be taken a maximum of four enrollments. CSU/UC

**MUS 164A****Intermediate Piano Repertoire I**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

*Prerequisite: MUS 163 with a minimum grade of C.*

Instruction for intermediate level students. Emphasizes solo material, technique, sight reading, interpretation, and performance. Daily practice required. Practice pianos available on campus. A combination of MUS 161, MUS 162, MUS 163, MUS 164A and MUS 164B may be taken a maximum of four enrollments. CSU/UC

**MUS 164B****Intermediate Piano Repertoire II**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

*Prerequisite: MUS 164A with a minimum grade of C.*

Continuation of instruction for advanced intermediate level students. Emphasizes solo material, technique, sight reading, and performance. Daily practice required. Practice pianos available on campus. A combination of MUS 161, MUS 162, MUS 163, MUS 164A and MUS 164B may be taken a maximum of four enrollments. CSU/UC

**MUS 168****Stylistic Interpretation of Piano Repertoire**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

*Prerequisite: MUS 163 with a minimum grade of C.*

Style characteristics of Baroque, Classical, Romantic and 20th century music studied through representative piano compositions. Students learn to play expressively within currently accepted performance practices for each period. Not for beginners. A combination of MUS 168 and MUS 268 may be taken a maximum of four enrollments. CSU/UC

**MUS 169****Harmonization at the Keyboard**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Recommended Preparation: MUS 161 with a minimum grade of C or similar beginning experience playing the piano.

Beginning keyboard harmonization skills. Includes playing by ear and learning accompaniment patterns in several styles from simple chord progressions. A combination of MUS 169 and MUS 269 may be taken a maximum of four enrollments. CSU/UC

**MUS 171 (C-ID MUS 180)****Concert Band**

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Study and rehearsal of band music for concert performances on campus and in the community. Each semester requires performance of new and different repertoire. Designed for students with basic performance skills. May be repeated. CSU/UC

**MUS 173****Beginning Rhythms in Percussion and Drums**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

The introduction of snare drum and drum set in a class situation. Designed to teach the basics of percussion and drum set performance for the beginning student. Emphasis on rhythmic reading, rudimental techniques, and basic drum set coordination various styles. CSU/UC

**MUS 175 (C-ID MUS 180)****Jazz Ensemble**

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Study, rehearsal, and performance of contemporary jazz/rock music for the jazz ensemble with help in developing techniques of improvisation. Each semester requires performance of new and different jazz repertoire. Designed for students with basic performance skills. May be repeated. CSU/UC

**MUS 176****Jazz Band**

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Advanced study, rehearsal, and performance of standard and contemporary jazz literature. Includes advanced techniques in improvisation. Each semester requires performance of new and different repertoire. Designed for students with basic performance skills. May be repeated. CSU/UC

**MUS 178****Mariachi**

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Mixed ensemble for the study, rehearsal, and performance of Mariachi repertoire with an emphasis on the music from Jalisco. Each semester requires the performance of different repertoire. Designed for students who have basic performance skills. May be repeated. CSU/UC

**MUS 180A****String Methods**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Beginning instruction on violin, viola, cello, or string bass. Fundamental skills developed through in-class rehearsal and performance of technical exercises and beginning orchestral repertoire. A combination of MUS 180A and MUS 180B may be taken a maximum of four enrollments. CSU/UC

## **MUS 180B**

### **Intermediate String Methods**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

*Prerequisite: MUS 180A with a minimum grade of C.*

Intermediate instruction on violin, viola, cello, or string bass. Skills developed through in- class rehearsal and performance of intermediate technical exercises and orchestral repertoire. A combination of MUS 180A and MUS 180B may be taken a maximum of four enrollments. CSU/UC

## **MUS 181 (C-ID MUS 180)**

### **Chamber Orchestra**

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Rehearsal and performance of standard repertoire for chamber orchestra. Each semester requires the performance of a variety of different repertoire. Designed for students who have basic performance skills. CSU/UC

## **MUS 185**

### **Beginning Classical Guitar**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Guitar playing techniques of right hand and left hand fingers. Development of correct finger usage. Basic instruction in reading staff notation and relating staff notation to practical playing of solo and ensemble repertoire. Student must furnish nylon string guitar. A combination of MUS 185, MUS 186, MUS 187 and MUS 188 may be taken a maximum of four enrollments. CSU/UC

## **MUS 186**

### **Intermediate Classical Guitar**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

*Prerequisite: MUS 185 with a minimum grade of C.*

Instruction at the intermediate level in solo, duo, and trio repertoire. Emphasizes technique studies and performance styles of 18th century music. Student must provide nylon string guitar. A combination of MUS 185, MUS 186, MUS 187 and MUS 188 may be taken a maximum of four enrollments. CSU/UC

## **MUS 187**

### **Advanced Classical Guitar**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

*Prerequisite: MUS 186 with a minimum grade of C.*

Instruction at the advanced level in solo, duo, and trio repertoire. Emphasizes advanced technical studies and etudes and performance styles of 16th through 20th century music.

Student must provide nylon string guitar. A combination of MUS 185, MUS 186, MUS 187 and MUS 188 may be taken a maximum of four enrollments. CSU/UC

## **MUS 188**

### **Advanced Classical Guitar Technique and Repertoire**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

*Prerequisite: MUS 187 with a minimum grade of C.*

Study of advanced guitar technique, solo literature, and performance practices of Renaissance, Baroque, and Classical styles through 20th century music. Student must provide nylon string guitar. A combination of MUS 185, MUS 186, MUS 187 and MUS 188 may be taken a maximum of four enrollments. CSU/UC

## **MUS 189**

### **Guitar Ensemble**

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Rehearsal and performance of standard and current repertoire for guitar ensemble. Each semester requires the performance of a variety of different repertoire. Designed for students who can read notes in first position. May be repeated. CSU/UC

## **MUS 190**

### **Introduction to ProTools**

Unit(s): 1.5 Class Hours: 18.0 Lecture, 27.0 Lab total.

Fundamental features and applications of ProTools audio software used in post- production for television, film and music. Orientation to functions, user interface and actual operation of digital audio workstation. Techniques and aesthetics associated with creation of well-mixed soundtracks are addressed. Hands-on practice with digital recording and editing of soundtracks. CSU

## **MUS 198**

### **Topics**

Unit(s): 0.5

Topics of special interest offered to meet the interests and needs of students of music. CSU

## **MUS 213 (C-ID MUS 140)**

### **Theory 3**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: MUS 112 with a minimum grade of C.*

Continuation of diatonic harmony from Music 112. Chromatic harmony introduced. Includes non-dominant seventh chords, secondary dominants, modulation, and altered chords. Keyboard harmony. Concurrent enrollment in Music 114A recommended. Required for music majors; open to non-majors. CSU/UC

## **MUS 214 (C-ID MUS 150)**

### **Theory 4**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: MUS 213 with a minimum grade of C.*

Continuation of Music 213. Late 19th century harmonic technique, and important aspects of 20th century style. Analysis and writing of short, derivative compositions. Keyboard harmony. Concurrent enrollment in Music 114B recommended. Required for music majors; open to non-majors. CSU/UC

## **MUS 215A**

### **Applied Music (Advanced Private Instruction)**

Unit(s): 1.5 Class Hours: 92.0 Lab total.

*Prerequisite: MUS 115D with a minimum grade of C and audition and concurrent enrollment in a music ensemble or music theory course.*

Advanced lessons in classical music in voice, piano, band/orchestral instrument, or guitar. Weekly requirements include five hours on- campus practice per week, weekly lessons, and weekly recital attendance. A combination of MUS 215A and MUS 115C and MUS 115A and MUS 115D and MUS 115B may be taken a maximum of four enrollments. CSU/UC

## **MUS 216**

### **Advanced Harmony and Composition I**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: MUS 214 with a minimum grade of C.*

Extension of harmonic studies of Music 213 and 214 into complete small compositions. Emphasizes learning to write effectively for the piano. Introduction to simple contrapuntal techniques and how to combine words with music. CSU/UC

**MUS 217****Advanced Harmony and Composition II**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite:* MUS 214 with a minimum grade of C.

Extension of Music 213 and Music 214 harmonic studies into complete small compositions. Emphasizes development technique. Explores highly chromatic harmony, dissonance, and selected 20th century styles. CSU/UC

**MUS 218****Music Notation Using Finale Software**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

Computer notation skills using Finale software. Covers various methods for inputting musical elements as well as editing, layout techniques, and score preparation. Intended for music students, music teachers, amateurs, and professionals. CSU

**MUS 241****Chamber Music Ensemble**

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Rehearsal and performance of music of various periods and styles for small instrumental, vocal, or combined ensembles. Each semester requires performance of new repertoire. Designed for students with previous performance experience. Audition required. May be repeated. CSU/UC

**MUS 245****Intermediate Jazz Improvisation and Performance Workshop**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

*Prerequisite:* MUS 145 with a minimum grade of C.

Performance and analysis of jazz standards and popular pieces in a practical workshop setting at an intermediate level. Elements of improvisation and ensemble playing are stressed. Open to all instrumentalists and vocalists. CSU/UC

**MUS 268****Intermediate Keyboard Repertoire**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

*Prerequisite:* MUS 168 with a minimum grade of C.

Style characteristics of Baroque, Classical, Romantic, and 20th century music studied through intermediate level piano compositions. Students learn to play expressively within currently accepted performance practices for each period. A combination of Music 168 and MUS 268 may be taken a maximum of four enrollments. CSU/UC

**MUS 269****Intermediate Harmonization at the Keyboard**

Unit(s): 1.0 Class Hours: 18.0 Lecture, 18.0 Lab total.

*Prerequisite:* MUS 169 with a minimum grade of C.

Intermediate keyboard harmonization skills. Includes playing by ear and learning accompaniment patterns in jazz, popular and classical styles using a variety of chord progressions. A combination of MUS 169 and MUS 269 may be taken a maximum of four enrollments. CSU/UC

**MUS 271 (C-ID MUS 180)****Symphonic Band**

Unit(s): 1.0 Class Hours: 54.0 Lab total.

The rehearsal and performance of band music. Preparation of standard band repertoire for performances in the community. Each semester requires performance of a variety of new and different repertoire. Designed for students with intermediate or advanced performance skills. CSU/UC

**NURSING - CONTINUING EDUCATION (NCE)****NCE 145****Advanced Cardiac Life Support**

Unit(s): 1.5 Class Hours: 27.0 Lecture total.

*Prerequisite:* NRN 201 and NRN 201L with a minimum grade of C.

Examines principles of caring for patients experiencing cardiopulmonary emergencies. Includes arrhythmia recognition, psychomotor skills, and medications used to manage cardiac arrest. Current BLS card and fee required. Must contact Health Science Skills Lab at (714)546-6869 for paperwork BEFORE registration. Grade: Pass/No Pass Only. CSU

**NCE 150****Registered Nurse Competency Refresher Course**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Recommended Preparation: Successful completion of a Registered Nursing Program.

This course focuses on Registered Nurse graduates who have been unable to find employment in the acute care setting and/or refresher RNs. This course will enhance both the recently graduated RN's and refresher RN's knowledge, skills, confidence and marketability prior to and during their job search. The course has three components: 1) Classroom theory, 2) Simulation, and 3) Skills practice with competency testing. CSU

**NURSING - REGISTERED (NRN)****NRN 098****Topics**

Unit(s): 0.5-3.0 Class Hours: 9.0-54.0 Lecture total.

Courses on a variety of contemporary topics will be offered to meet the interests and needs of students in the Nursing area. Not offered every semester.

**NRN 105****Cooperative Work Experience- Occupational**

Unit(s): 1.0-4.0 Class Hours: 60.0-300.0 Lab total.

Corequisite: Concurrent enrollment in NRN 201L or NRN 202L.

This work experience course of supervised employment is designed to assist students to acquire desirable work habits, attitudes and skills in a field related to the students' major so as to enable them to become productive employees. This course also provides students with career awareness for jobs. 75 hours of paid work or 60 hours of un-paid work equals one unit of course credit. Student repetition is allowed per Title 5, Section 55253. CSU

**NRN 106A****Health Science Skills Laboratory- First Semester**

Unit(s): 0.5 Class Hours: 27.0 Lab total.

*Prerequisite:* Enrollment in the Registered Nursing Program, any N.C.E. courses, or RN re-entry.

Supervised use with supplemental learning assistance of the skills lab to assist the student in the development of clinical competency of nursing fundamentals and mastery of fundamental psychomotor skills content addressed in courses NRN-161, NRN 161L, NRN 163, NRN-163L NRN 171, and NRN 171L. Open entry/open exit. Pass/No Pass (Pass/No Pass Only) CSU



**NRN 106B**

**Health Science Skills Laboratory- Second Semester**

Unit(s): 0.5 Class Hours: 27.0 Lab total.

*Prerequisite: Enrollment in the Registered Nursing Program, any N.C.E. courses, or RN re-entry.*

Supervised use with supplemental learning assistance of skills lab to assist the student in development of clinical competency of nursing concepts pertaining to maternal-child health and mastery of psychomotor skills related to maternal-child biological and psychosocial needs addressed in courses NRN 164, NRN 164L, NRN 165, NRN 165L, NRN 172, and NRN 172L. Open entry/open exit. Pass/No Pass. (Pass/No Pass Only) CSU

**NRN 106C**

**Health Science Skills Laboratory- First Year Refresher**

Unit(s): 0.5 Class Hours: 27.0 Lab total.

*Prerequisite: Enrollment in the Registered Nursing Program, EMT, any N.C.E. courses, or RN re-entry.*

Supervised use with supplemental learning assistance of skills lab to assist the re-entry student or EMT student in the expansion of clinical competency of principles of nursing and mastery of basic to intermediate psychomotor skills content addressed in courses NRN 161, NRN 161L, NRN 163, NRN 163L, NRN 164, NRN 164L, NRN 171, NRN 171L, NRN 172, NRN 172L, EMT 104 or EMT 105. Open entry/open exit. Pass/No Pass. CSU

**NRN 160**

**Introduction to Pharmacology**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

*Prerequisite: BIOL 239 and BIOL 249 and BIOL 139 or BIOL 229 and ENGL 101 or ENGL 101H with a minimum grade of C.*

Corequisite: NRN 161 and NRN 161L.

This course introduces the concepts within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: safety and infection control, diversity, health promotion, communication, professional behavior, clinical reasoning/judgment, health care system, and ethics. Upon completion, students should be able to identify safe nursing care incorporating the concepts discussed in this course. CSU

**NRN 161**

**Principles of Nursing Practice**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

*Prerequisite: BIOL 239 and BIOL 249 and BIOL 139 or BIOL 229 and ENGL 101 or ENGL 101H with a minimum grade of C.*

Corequisite: NRN 160 and NRN 161L.

This course introduces the concepts within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: elimination, metabolism, oxygenation, tissue integrity, comfort, emergencies, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/judgment, healthcare system, and ethics. Upon completion, students should be able to identify safe nursing care incorporating the concepts discussed in this course. CSU

**NRN 161L**

**Principles of Nursing Practice Lab**

Unit(s): 2.5 Class Hours: 135.0 Lab total.

*Prerequisite: BIOL 239 and BIOL 249 and BIOL 139 or BIOL 229 and ENGL 101 or ENGL 101H with a minimum grade of C.*

Corequisite: NRN 160 and NRN 161.

This clinical course applies the concepts of NRN 161 within the four domains of Person, Health and Illness, Environment, and Nursing.

Emphasis is placed on the concepts within each domain including: elimination, metabolism, oxygenation, tissue integrity, comfort, emergencies, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/ judgment, healthcare system, ethics, and clinical competency. (Pass/No Pass Only) CSU

**NRN 162**

**Pharmacological Concepts**

Unit(s): 1.5 Class Hours: 27.0 Lecture total.

*Prerequisite: NRN 160 and NRN 161 and NRN 161L with a minimum grade of C.*

Corequisite: NRN 163 and NRN 163L.

This course further develops the concepts within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: fluid and electrolyte balance, metabolism, central nervous system, cellular regulation, oxygenation, perfusion, reproduction, inflammation, infection, mobility, comfort, stress and coping, mood & affect, cognition, safety & infection control, communication, professional behavior, clinical reasoning/judgment, and ethics. Upon completion, students should be able to identify safe nursing care incorporating the concepts discussed in this course. CSU

**NRN 163**

**Simple Concepts**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: NRN 160 and NRN 161 and NRN 161L with a minimum grade of C.*

Corequisite: NRN 162; NRN 163L.

This course further develops the concepts within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: fluid and electrolyte balance, elimination, metabolism, perfusion, inflammation, tissue integrity, infection, mobility, comfort, cognition, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/judgment, and ethics. Upon completion, students should be able to explain safe nursing care incorporating the concepts discussed in this course. CSU

**NRN 163L****Simple Concepts Lab**

Unit(s): 2.5 Class Hours: 135.0 Lab total.

*Prerequisite: NRN 161 and NRN 161L and NRN 160 with a minimum grade of C.*

Corequisite: NRN 163 and NRN 162.

This clinical course applies the concepts of NRN 163 within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: fluid and electrolyte balance, elimination, metabolism, perfusion, inflammation, tissue integrity, infection, mobility, comfort, cognition, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/judgment, ethics, and clinical competency. Upon completion, students should be able to demonstrate safe nursing care incorporating the concepts identified in this course. (Pass/No Pass Only) CSU

**NRN 164****Family Health Concepts**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

*Prerequisite: NRN 163 and NRN 163L and NRN 162 with a minimum grade of C.*

Corequisite: NRN 164L

This course further describes the concepts within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: physical growth and development, psychosocial development, cognitive development, metabolism, cellular regulation, perfusion, reproduction, infection, comfort, emergencies, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/judgment, and ethics. Upon completion, students should be able to interpret safe nursing care incorporating the concepts discussed in this course. CSU

**NRN 164L****Family Health Concepts Lab**

Unit(s): 2.0 Class Hours: 108.0 Lab total.

*Prerequisite: NRN 163 and NRN 162 and NRN 163L with a minimum grade of C.*

Corequisite: NRN 164.

This clinical course applies the concepts of NRN 164 within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: physical growth and development, psychosocial development, cognitive development, metabolism, cellular regulation, perfusion, reproduction, infection, comfort, emergencies, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/judgment, ethics, and clinical competencies. Upon completion, students should be able to employ safe nursing care incorporating the concepts identified in this course. (Pass/No Pass Only) CSU

**NRN 165****Health Illness Concepts**

Unit(s): 2.5 Class Hours: 45.0 Lecture total.

*Prerequisite: NRN 164 and NRN 164L with a minimum grade of C.*

Corequisite: NRN 165L.

This course relates the concepts within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: psychosocial development, cognitive development, metabolism, cellular regulation, oxygenation, inflammation, infection, comfort, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/judgment, and ethics. Upon completion, students should be able to differentiate safe nursing care incorporating the concepts discussed in this course. CSU

**NRN 165L****Health Illness Concepts Lab**

Unit(s): 2.5 Class Hours: 135.0 Lab total.

*Prerequisite: NRN 164 and NRN 164L with a minimum grade of C.*

Corequisite: NRN 165.

This clinical course applies the concepts of NRN 165 within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: psychosocial development, cognitive development, metabolism, cellular regulation, oxygenation, inflammation, infection, comfort, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/ judgment, and ethics. Upon completion, students should be able to differentiate safe nursing care incorporating the concepts discussed in this course. (Pass/No Pass Only) CSU

**NRN 170****Pharmacological Concepts of Nursing**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

*Prerequisite: BIOL 239 and BIOL 249 and BIOL 139 or BIOL 229 and ENGL 101 or ENGL 101H with a minimum of grade C.*

Corequisite: NRN 171 and NRN 171L

This pharmacology course introduces the concepts within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain related to pharmacology including: fluid and electrolyte balance, metabolism, central nervous system, cellular regulation, oxygenation, perfusion, reproduction, inflammation, infection, mobility, comfort, stress and coping, mood & affect, cognition, safety & infection control, communication, professional behavior, diversity, health promotion, healthcare systems, clinical reasoning/judgment, and ethics. Further emphasis is placed on dosage calculations, drug classifications, and application of the nursing process to drug administration. Upon completion, students should be able to identify safe nursing care incorporating the concepts discussed in this course. CSU

## **NRN 171**

### **Principles of Nursing Practice and Simple Concepts**

Unit(s): 4.5 Class Hours: 81.0 Lecture total.

*Prerequisite: BIOL 239 and BIOL 249 and BIOL 139 or BIOL 229 and ENGL 101 or ENGL 101H with a minimum grade of C.*

Corequisite: NRN 170 and NRN 171L.

This course introduces and develops the concepts within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: elimination, metabolism, fluid and electrolyte balance, perfusion, inflammation, infection, mobility, cognition, oxygenation, tissue integrity, comfort, emergencies, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/ judgment, healthcare system, and ethics. Upon completion, students should be able to identify and explain safe nursing care incorporating the concepts discussed in this course. CSU

## **NRN 171L**

### **Principles of Nursing Practice and Simple Concepts Lab**

Unit(s): 4.5 Class Hours: 243.0 Lab total.

*Prerequisite: BIOL 239 and BIOL 249 and BIOL 139 or BIOL 229 and ENGL 101 or ENGL 101H with a minimum grade of C.*

Corequisite: NRN 171 and NRN 170.

This clinical course applies the concepts of NRN 171 within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: elimination, metabolism, fluid and electrolyte balance, perfusion, inflammation, infection, mobility, cognition, oxygenation, tissue integrity, comfort, emergencies, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/ judgment, healthcare system, ethics, and clinical competency. (Pass/No Pass Only) CSU

## **NRN 172**

### **Family Health and Illness Concepts**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: NRN 170 and NRN 171 and NRN 171L with a minimum grade of C.*

Corequisite: NRN 172L.

This course describes and relates the concepts within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: physical growth and development, psychosocial development, cognitive development, metabolism, cellular regulation, perfusion, reproduction, infection, comfort, emergencies, oxygenation, inflammation, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/ judgment, and ethics. Upon completion, students should be able to differentiate safe nursing care incorporating the concepts discussed in this Family Health and Illness Concepts course. CSU

## **NRN 172L**

### **Family Health and Illness Concepts Lab**

Unit(s): 4.5 Class Hours: 243.0 Lab total.

*Prerequisite: NRN 170 and NRN 171 and NRN 171L with a minimum grade of C.*

Corequisite: NRN 172.

This clinical course applies the concepts of NRN 172 within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: physical growth and development, psychosocial development, cognitive development, metabolism, cellular regulation, perfusion, reproduction, infection, comfort, emergencies, oxygenation, inflammation, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/ judgment, and ethics. Upon completion, students should be able to differentiate safe nursing care incorporating the concepts discussed in this Family Health and Illness Concepts Lab. CSU

## **NRN 198**

### **Topics**

Unit(s): 0.5-3.0 Class Hours: 9.0-54.0 Lecture total.

Courses on a variety of contemporary topics will be offered to meet the interests and needs of students in the nursing area. Not offered every semester. CSU

## **NRN 200**

### **Role Transition**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Corequisite: Acceptance into the Nursing Program.

Bridge course for LVN or transfer student with an emphasis on RN role development.

Application of the nursing process within the Santa Ana College Nursing Conceptual Framework. Review of test-taking strategies, medication calculations, fluid balance, and skills testing. Open to all nursing students; required of advanced placement. CSU

## **NRN 206A**

### **Health Science Skills Laboratory- Third Semester**

Unit(s): 0.5 Class Hours: 27.0 Lab total.

*Prerequisite: Enrollment in the Registered Nursing Program, EMT, any N.C.E. courses, or RN re-entry.*

Supervised use with supplemental learning assistance of skills lab to assist the student in development of clinical competency of mental health nursing and mastery of psychomotor skills content addressed in courses NRN 261, NRN 261L, NRN 262, NRN 262L, NRN 271, and NRN 271L. Open entry/open exit. Pass/No Pass (Pass/No Pass Only) CSU

## **NRN 206B**

### **Health Science Skills Laboratory- Fourth Semester**

Unit(s): 0.5 Class Hours: 27.0 Lab total.

*Prerequisite: Enrollment in the Registered Nursing Program, any N.C.E. courses, or RN re-entry.*

Supervised use with supplemental learning assistance of skills lab to assist the student in development of clinical competency of advanced medical/surgical nursing concepts and mastery of advanced medical/surgical psychomotor skills content addressed in courses NRN 263, NRN 263L, NRN 264L, NRN 272, and NRN 272L. Open entry/open exit. (Pass/No Pass Only) CSU

**NRN 206C****Health Science Skills Laboratory- Second Year Transition**

Unit(s): 0.5 Class Hours: 27.0 Lab total.

*Prerequisite: Enrollment in the Registered Nursing Program, any N.C.E. courses, or RN re-entry.*

Supervised use with supplemental learning assistance of skills lab to assist the RN refresher, advanced placed nursing student, or EMT student in the development and maintenance of clinical competency of nursing theoretical knowledge and mastery of advanced psychomotor skills content necessary for the transition into clinical practice as addressed in courses NRN 261, NRN 261L, NRN 262, NRN 262L, NRN 263, NRN 263L, NRN 264L, NRN 271, NRN 271L, NRN 272, and NRN

272L; EMT 104, or EMT 105. Open entry/open exit. Pass/No Pass. CSU

**NRN 261****Mental Health Concepts**

Unit(s): 1.5 Class Hours: 27.0 Lecture total.

*Prerequisite: NRN 165 and NRN 165L with a minimum grade of C.*

Corequisite: NRN 261L.

This course examines the concepts within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: metabolism, emergencies, stress and coping, mood and affect, cognition, addictive behavior, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/judgment, health care system, and ethics. Upon completion, students should be able to analyze safe nursing care incorporating the concepts discussed in this course. CSU

**NRN 261L****Mental Health Concepts Lab**

Unit(s): 1.5 Class Hours: 81.0 Lab total.

*Prerequisite: NRN 165 and NRN 165L with a minimum grade of C.*

Corequisite: NRN 261.

This clinical course applies the concepts of NRN 261 within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: metabolism, emergencies, stress and coping, mood and affect, cognition, addictive behavior, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/ judgment, health care system, ethics and clinical competency. Upon completion, students should be able to utilize safe nursing care incorporating the concepts identified in this course. (Pass/No Pass Only) CSU

**NRN 262****Acute Concepts**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: NRN 261 and NRN 261L with a minimum grade of C.*

Corequisite: NRN 262L.

This course correlates the concepts within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: fluid and electrolyte balance, central nervous system regulation, cellular regulation, oxygenation, perfusion, inflammation, infection, mobility, comfort, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/judgment, and ethics. Upon completion, students should be able to analyze safe nursing care incorporating the concepts discussed in this course. CSU

**NRN 262L****Acute Concepts Lab**

Unit(s): 3.0 Class Hours: 162.0 Lab total.

*Prerequisite: NRN 261 and NRN 261L with a minimum grade of C.*

Corequisite: NRN 262.

This clinical course applies the concepts of NRN 262 within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: fluid and electrolyte balance, central nervous system regulation, cellular regulation, oxygenation, perfusion, inflammation, infection, mobility, comfort, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/judgment, ethics, and clinical competency. Upon completion, students should be able to validate safe nursing care incorporating the concepts identified in this course. (Pass/No Pass Only) CSU

**NRN 263****Complex Concepts**

Unit(s): 3.5 Class Hours: 63.0 Lecture total.

*Prerequisite: NRN 262 and NRN 262L with a minimum grade of C.*

Corequisite: NRN 263L.

This course formulates the concepts within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: fluid and electrolyte balance, metabolism, central nervous system regulation, oxygenation, perfusion, tissue integrity, infection, mobility, comfort, emergencies, safety and infection control, diversity, health promotion, communication, professional behavior, clinical reasoning/judgment, health care system, and ethics. Upon completion, students should be able to synthesize safe nursing care incorporating the concepts discussed in this course. CSU

## **NRN 263L**

### **Complex Concepts Lab**

Unit(s): 2.5 Class Hours: 135.0 Lab total.

*Prerequisite: NRN 262 and NRN 262L with a minimum grade of C.*

Corequisite: NRN 263.

This clinical course applies the concepts of NRN 263 within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: fluid and electrolyte balance, metabolism, central nervous system regulation, oxygenation, perfusion, tissue integrity, infection, mobility, comfort, emergencies, safety and infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/judgment, health care system, ethics, and clinical competency.

Upon completion, students should be able to synthesize safe nursing care incorporating the concepts discussed in this course. (Pass/No Pass Only) CSU

## **NRN 264L**

### **Preceptorship Lab**

Unit(s): 2.5 Class Hours: 135.0 Lab total.

*Prerequisite: NRN 263 and NRN 263L with a minimum grade of C.*

This clinical course applies the concepts within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on developing leadership skills including time management, prioritization, and delegation in an independent clinical environment precepted by an experienced registered nurse. Upon completion, students should be able to manage safe nursing care incorporating the concepts identified and discussed in the nursing curriculum.

(Pass/No Pass Only) CSU

## **NRN 271**

### **Mental Health and Acute Concepts**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: NRN 172 and NRN 172L with a minimum grade of C.*

Corequisite: NRN 271L.

This course examines the concepts within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: metabolism, emergencies, stress & coping, mood & affect, cognition, addictive behavior, central nervous system regulation, cellular regulation, oxygenation, perfusion, inflammation, infection, mobility, comfort, safety & infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/judgment, health care system, and ethics. Upon completion, students should be able to analyze safe nursing care incorporating the concepts discussed in this course. CSU

## **NRN 271L**

### **Mental Health and Acute Concepts Lab**

Unit(s): 4.5 Class Hours: 243.0 Lab total.

*Prerequisite: NRN 172 and NRN 172L with a minimum grade of C.*

Corequisite: NRN 271.

This clinical course applies the concepts of NRN 271 within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: metabolism, emergencies, stress & coping, mood & affect, cognition, addictive behavior, central nervous system regulation, cellular regulation, oxygenation, perfusion, inflammation, infection, mobility, comfort, safety & infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/judgment, health care system, ethics and clinical competency. CSU

## **NRN 272**

### **Complex Concepts**

Unit(s): 3.5 Class Hours: 63.0 Lecture total.

*Prerequisite: NRN 271 and NRN 271L with a minimum grade of C.*

Corequisite: NRN 272L.

This course formulates the concepts within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: fluid and electrolyte balance, metabolism, central nervous system regulation, oxygenation, perfusion, tissue integrity, infection, mobility, comfort, emergencies, safety & infection control, diversity, health promotion, communication, professional behavior, clinical reasoning/judgment, health care system, and ethics. Upon completion, students should be able to synthesize safe nursing care incorporating the concepts discussed in this course. CSU

## **NRN 272L**

### **Complex Concepts and Preceptorship Lab**

Unit(s): 4.5 Class Hours: 243.0 Lab total.

*Prerequisite: NRN 271 and NRN 271L with a minimum grade of C.*

Corequisite: NRN 272.

This clinical course applies the concepts of NRN 272 within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: fluid and electrolyte balance, metabolism, central nervous system regulation, oxygenation, perfusion, tissue integrity, infection, mobility, comfort, emergencies, safety & infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/judgment, health care system, ethics, and clinical competency. Additional emphasis is placed on developing leadership skills including time management, prioritization, and delegation in an independent clinical environment precepted by an experienced registered nurse. Upon completion, students should be able to manage safe nursing care incorporating the concepts identified and discussed in the nursing curriculum. (Pass/No Pass Only) CSU

## **NUTRITION AND FOOD (NUTR)**

### **NUTR 101**

#### **The Food System and Career Opportunities**

Unit(s): 1.5 Class Hours: 27.0 Lecture total.

Exploration of career opportunities and projected employment trends in dietetics, food science, and the food industry. Includes educational requirements for nutrition and dietetics majors, skill preparation, professional organizations, and ethics. CSU

**NUTR 110****Food Safety and Sanitation***Formerly: Food Sanitation and Safety*Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Sanitation practices affecting individual operations. Prevention and control of foodborne illnesses through flow of food and HACCP management. Also includes study of worker safety. Same as Culinary Arts 110. CSU

**NUTR 112****Food Service Nutrition***Formerly: NUTR 120, Food Service Nutrition*Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Principles of nutrition and their application to personal lifestyle and a professional kitchen through an analysis of marketing, food trends, menu design and recipe modification. CSU

**NUTR 115 (C-ID NUTR 110)****Nutrition**Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Scientific concepts of nutrition related to the function of nutrients in basic life processes and current health issues with emphasis on individual needs. CSU/UC

**NUTR 115H (C-ID NUTR 110)****Honors Nutrition**Unit(s): 3.0 Class Hours: 54.0 Lecture total.*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

Scientific concepts of nutrition related to the function of nutrients in basic life processes and current health issues with emphasis on individual needs. Content enriched for honors students, to provide a critical and extensive exploration of the major areas of nutrition, including issues related to nutrition and disease states. CSU/UC

**NUTR 116 (C-ID NUTR 120)****Principles of Food Preparation**Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.*Prerequisite: Negative T.B. test or chest x-ray.*

Application of scientific principles in the preparation of selected food products emphasis on physical and chemical properties of food; methods and techniques of food preparation; factors that contribute to quality of prepared foods. CSU

**NUTR 120****Food and Culture***Formerly: NUTR 118, Cultural Foods*Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A multicultural perspective on traditional and contemporary food choices. The class considers customs associated with food in relation to religion, health/medicine, human survival and symbolism. The impact of socioeconomic, historical events, population movements, and geography are also discussed. CSU/UC

**NUTR 121****Sports Nutrition**Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Overview of the role nutrition plays in sports and athletic performance. An emphasis on energy and nutrient needs, determination of hydration status, sport specific nutrient recommendations, body composition, and supplementation guidelines. CSU

**OCCUPATIONAL THERAPY ASSISTANT (OTA)****OTA 100****Medical Terminology and Documentation for the O.T.A.**Unit(s): 1.0 Class Hours: 18.0 Lecture total.*Prerequisite: BIOL 149 or BIOL 239 and BIOL 249 with a minimum grade of C.*

This course will offer an introduction to basic medical terminology and documentation appropriate to practice needs of the Occupational Therapy Assistant. CSU

**OTA 101****Foundations of Occupation and Occupational Therapy**Unit(s): 4.0 Class Hours: 72.0 Lecture total.

This course defines and explores occupation as it is used to provide the foundation for study of the occupational therapy profession. It further provides an overview of the history and development of occupational therapy as well as the dimensions of past and present practice. CSU

**OTA 101L****Exploration of Occupation Through Activity**Unit(s): 2.0 Class Hours: 108.0 Lab total.*Prerequisite: ENGL 101 or ENGL 101H and 3 units of Communication Studies (101 or 101H, or 102 or 140, or 145 or 152) with a minimum grade of C.*

In this lab class, students will explore the meaning and variability of occupation through self-analysis of occupational patterns, perform task analysis of varied activities, and have the opportunity to observe and practice teaching and learning skills. CSU

**OTA 102****Psychosocial Function and Dysfunction**Unit(s): 4.0 Class Hours: 72.0 Lecture total.*Prerequisite: OTA 100, OTA 101, OTA 101L, and OTA 110 with a minimum grade of C.*

This course will define and explore psychosocial phenomena commonly seen by the Occupational Therapy Assistant and will examine evaluation techniques, functional deficits, and methods of treatment. CSU

**OTA 102L****Psychosocial Components of Occupation**Unit(s): 2.5 Class Hours: 144.0 Lab total.*Prerequisite: OTA 100, OTA 101, OTA 101L, and OTA 110 with a minimum grade of C.*

This course will explore the occupational therapy assistant's role in therapeutic relationships, in administering assessments used primarily in pediatric, adolescent, and adult psychosocial settings, and in therapeutic group design and facilitation. CSU

**OTA 103****Physical Function and Dysfunction**Unit(s): 4.0 Class Hours: 72.0 Lecture total.*Prerequisite: OTA 102, OTA 102L, OTA 115, and OTA 111 with a minimum grade of C.*

This course will focus on the occupational function of the child, adolescent, and adult which emphasizes the physical components of development, the continuum of function/ dysfunction of the client and the role of the O.T.A. in assessment and treatment of commonly seen physical dysfunction diagnosis. CSU

**OTA 103L**

### **Physical Components of Occupation**

Unit(s): 2.5 Class Hours: 144.0 Lab total.

*Prerequisite: OTA 102, OTA 102L, OTA 115, and OTA 111 with a minimum grade of C.*

This lab course explores the Occupational Therapy Assistant's role in safety, assessments and treatment techniques commonly used by occupational therapists in physical dysfunction settings. CSU

### **OTA 110**

#### **Human Occupation Across Lifespan**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: OTA 100, OTA 101, OTA 101L, and OTA 110 with a minimum grade of C.*

This course will explore human occupation across lifespan with an emphasis on the relationship between human development and occupational choice. Physical, cognitive, psychological, social, and linguistic developmental milestones and changes will be covered from fetal development through old age. CSU

### **OTA 111**

#### **Applied Kinesiology**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

*Prerequisite: OTA 100, OTA 101, OTA 101L, and OTA 110 with a minimum grade of C.*

This course will focus on understanding human movement as an integral component of occupational performance and will examine how kinesiology and biomechanics are utilized in treatment by the Occupational Therapy Assistant. CSU

### **OTA 115**

#### **Human Disease and Occupation**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

*Prerequisite: OTA 100, OTA 101, OTA 101L, and OTA 110 with a minimum grade of C.*

This class will explore diseases that are commonly seen in occupational therapy practice and the effect they have on participation in occupation. Each disease will be covered in terms of etiology, prognosis, prevention, pathophysiology, medical management, precautions, and lifestyle redesign required as a result of the disease. CSU

### **OTA 201**

#### **Contemporary Models of Occupational Therapy Practice**

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

*Prerequisite: OTA 102, OTA 102L, OTA 111, and OTA 115 with a minimum grade of C.*

This lecture/lab course explores the multiple roles of the occupational therapy assistant in documentation, service management, professional behaviors, non-traditional roles, and contemporary models of practice. CSU

### **OTA 202**

#### **Level II Fieldwork - Part I**

Unit(s): 6.0 Class Hours: 360.0 Lab total.

*Prerequisite: OTA 103 and OTA 103L and OTA 201 with a minimum grade of C.*

Supervised fieldwork experience in an occupational therapy practice setting that will provide the student appropriate opportunities to apply learned knowledge and skills. CSU

### **OTA 203**

#### **Level II Fieldwork - Part II**

Unit(s): 6.0 Class Hours: 360.0 Lab total.

*Prerequisite: OTA 103 and OTA 103L and OTA 201 with a minimum grade of C.*

Supervised fieldwork experience in an occupational therapy practice setting that will provide the student appropriate opportunities to apply knowledge and skills learned in the classroom. CSU

## **OCCUPATIONAL STUDIES (OS)**

### **OS 301**

#### **Therapeutic Approaches to the Older Adult**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: Limitation on enrollment: Student must be admitted to the Occupational Studies program.*

This course will build upon the developmental concepts of aging to examine quality of life in older adulthood. The focus of this course will be on evaluating older adults from an occupational perspective and analyzing the skills needed to maintain independence and to successfully participate in meaningful activities throughout the older years.

### **OS 304**

#### **Movement Theory & Analysis**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: Limitation on Enrollment: Student must be admitted to the Occupational Studies program.*

Movement is a significant aspect of occupational performance. This course will focus on current theories of motor control and motor learning with an emphasis of how these theories can be applied to provide evidence-based practice to those with motor dysfunction.

### **OS 305**

#### **Advanced Pediatric Practice for the Occupational Therapy Assistant (OTA)**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: Limitation on Enrollment: Student must be admitted to the Occupational Studies program.*

This course will build upon developmental concepts related to pediatric Occupational Therapy (OT) practice. The focus of this course will be to look at specific settings related to pediatric occupational therapy practice. It will focus on evaluating the pediatric client related to acute hospital care and school based intervention.

### **OS 310**

#### **Community-Based Occupational Therapy Practice**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: Limitation on Enrollment: Student must be admitted to the Occupational Studies program.*

This course will focus on the practice of Occupational Therapy (OT) in community-based settings. This will include an in-depth analysis of both the history and growth of OT practice in the community. Students will analyze the role of OT in community settings with a variety of populations.

**OS 312****Advanced Practice Areas in Occupational Therapy (OT)**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: Limitation on Enrollment: Student must be admitted to the Occupational Studies program.*

This course will provide a study of the advanced practice areas in occupational therapy. Advance practice areas in occupational therapy include: physical agent modalities (PAMs), hand therapy and feeding and swallowing. This class will focus on the theory and application of PAMs for the use in occupational therapy; the fundamentals of hand therapy including treatment guidelines in occupational therapy; and feeding and swallowing issues with the occupational therapy client.

**OS 325****Applying Research to Occupational Therapy Intervention**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: Limitation on Enrollment: Student must be admitted to the Occupational Studies program.*

This course will provide an in-depth study of utilizing evidence to develop effective treatment plans in Occupational Therapy. The focus will be on critically evaluating available research to develop best practice in intervention.

**OS 402****Neurological Principles in Human Performance**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: Limitation on Enrollment: Student must be admitted to the Occupational Studies program.*

This course will provide an in-depth study of the neurologic principles used in rehabilitation practice. This will focus on understanding the structures and function of the central and peripheral nervous systems and to the sequelae of injury to these systems. There will be an emphasis on cognitive, visual, and perceptual problems in adults with acquired brain injury.

**OS 403****Leadership for the Occupational Therapy Assistant (OTA)**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

*Prerequisite: Limitation on Enrollment: Student must be admitted to the Occupational Studies program.*

This course will explore leadership roles that are available to the OTA and the skills that are needed to assume them. The focus will be on leadership, advocacy, marketing, quality improvement, supervision, and scholarship. Students will also explore volunteerism and active participation in professional organizations.

**OS 410****Healthcare Systems**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: Limitation on Enrollment: Student must be admitted to the Occupational Studies program.*

This course will cover the various healthcare systems that influence the practice of occupational therapy. Topics will include economics, types of insurance, healthcare policies, ongoing healthcare reform, and the role of technology. As a part of this course students will complete an independent, in-depth, study of one of the key practice areas in OT as identified by the American Occupational Therapy Association (AOTA).

**OS 412****Capstone Seminar**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: Limitation on Enrollment: Student must be admitted to the Occupational Studies program.*

This Capstone Seminar is designed to demonstrate the student's accumulated training through the development of a project that reflects theory, advanced knowledge of practice, and innovation. The theme of each project will be facilitating engagement in occupation with the use of a therapeutic product. Each student will complete a project that is individually mentored and demonstrates an increased level of self-direction.

**PARALEGAL (PARA)****PARA 100****Law and Society**

*Formerly: The Paralegal Profession*

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Overview of the legal system including the courts, participants and various sources of law in the American legal system and how society is affected. Review of the legal and judicial process in the United States covering the adversarial system, jurisdiction of federal and state courts, and the general process of judicial review and how different segments of society are affected. Explanation of different sources of law including statutes, court cases and administrative agency rules. Review of basic legal reasoning and introductory legal research methods. Introduction to substantive areas of law and the effect the law has in various groups and individuals in our system. Review of the role and regulation of legal professionals, legal ethics and consumer protection laws, and their effect on providing legal services to various segments of society. Same as Law 100. CSU

**PARA 101****Law Office Management**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Structure and procedures of the law office. Emphasis on time management, the role of paralegals and paralegal administrators in the law office, ethics in the law office, client property regulations, time keeping and billing, and technology management in a law office. CSU

**PARA 105****Cooperative Work Experience Education - Occupational**

Unit(s): 1.0-4.0 Class Hours: 60.0-300.0 Lab total.

This work experience course of supervised employment is designed to assist students to acquire career awareness, work habits, attitudes and skills related to the student's college major. A student can earn 1 to 4 units per semester, up to a maximum of 4 units total. Additionally, students must work 75 paid hours or 60 non-paid hours per unit earned. CSU

**PARA 107 (C-ID AJ 122)****Principles and Procedures in the Criminal Justice System**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An examination and analysis of due process in criminal proceedings from pre-arrest through trial and appeal, utilizing statutory law and state and constitutional law precedents. (Same as Paralegal 107.) CSU



**PARA 117**

**Law of Global Commerce and Management**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Learn to create business contracts in the global marketplace and how to use the U.N. Convention on Contracts for the International Sale of Goods. Learn about financial mechanisms and laws regulating international distribution. Learn about international limited liability companies, and foreign direct investment. Learn how countries join together to create trade. Includes NAFTA/USMCA, GATT, the EU and other trade agreements around the world. Explore management and law in different legal environments as well as U.S. export regulations. CSU

**PARA 120**

**Computers in the Law Office**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Exploration of technology utilized in a legal service office environment. Study of legal focused software and applications. CSU

**PARA 121**

**Legal Ethical Reasoning**

Formerly: Ethics and Professional Responsibility

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course provides an introduction to concepts and theories of ethical decision-making, moral conduct, obligation and permission, justice, responsibility, as applied to the Legal Profession. The course will explore the application of the California Rules of Professional Conduct as applied to the legal profession and society in general. CSU

**PARA 122**

**Elder Law**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Law and procedures for the aging population. Interviewing, advance directives, wills, trusts, guardianships, patients' rights in healthcare decisions, entitlement programs, managed care, long-term care insurance, viatical settlements, living facilities, financial planning, social security, and elder abuse. Field trips may be required. CSU

**PARA 130**

**Legal Transactions**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: PARA 100 with a minimum grade of C or concurrent enrollment.*

Introduction to contracts and drafting legal documents. Contract formation, performance, and breach and third party interests. Students will learn to draft various contracts and other documents and will select, edit, and customize formbook and computerized forms in real property, family law, and estate planning. CSU

**PARA 131**

**Advanced ADR Practice**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Study of the practical aspects of the Paralegal's role in assisting an attorney in Alternative Dispute Resolution. CSU

**PARA 132**

**Family Law and Procedure**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Study of basic substantive law and procedures in family law: Court procedures for divorce, annulment, temporary and permanent support, restraining orders, division of community property, and child custody procedures including adoption and paternity actions. May require a field trip. CSU

**PARA 133**

**Workers Compensation Law and Procedure**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Study of the laws and procedures related to worker's compensation. Covers medical-legal problems attendant to on-the-job injuries, disabilities and benefits due employees, court litigation, administrative hearings, and out-of-court processes. May require field trips. CSU

**PARA 134**

**Estate Planning and Administration**

Formerly: *Probate Law and Procedures*

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Probate and estate planning procedures. Study of the Paralegal's role in drafting estate planning and administration documents, assisting attorneys in administration of estates, and monitoring asset and fiduciary accountings. Study of basic estate planning, probate laws, wills, trusts, and taxes. Field trip may be required. CSU

**PARA 135**

**Bankruptcy Law and Procedure**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Federal bankruptcy act and court procedures for the paralegal, the functions of the bankruptcy trustee, and a detailed examination of the process of being declared a bankrupt. May require a field trip. CSU

**PARA 136**

**Real Property Law and Procedure**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

A study of the laws and procedures of real property. A study of the role of a paralegal in a law practice that specializes in real property law with an emphasis on the landlord/tenant relationship. Field trips may be required. CSU

**PARA 137**

**Tort and Insurance Law**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

In class study of the theory of torts and the paralegals role in assisting an attorney in the delivery of legal services to a client. The course will study theory of liability, remedies, procedures and the ethical responsibilities in assisting an attorney in a tort related practice. Field trips may be required. CSU

**PARA 138**

**Law of Business Organizations**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Laws of the California Corporations Code. Students prepare articles of incorporation, minutes, by-laws, stock, and stock transfer. Agency law and partnership laws. Students will understand compliance regulations. CSU

**PARA 139**

**Fundamentals of Labor Law**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

An introduction to labor law and the judicial system. The course will examine major areas of labor law including the complaint, conference, hearings and appeals. CSU

**PARA 140****Immigration Law and Procedure**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Basic study of Immigration Law in the United States, with focus on preparation of those forms used by immigrants to secure benefits. Computerized preparation of forms and procedures for filing with INS will be emphasized. Marketing procedures for paralegals involved in Immigration Law will be analyzed, and ethical considerations to avoid the illegal practice of law will be covered. CSU

**PARA 143****Civil Litigation Overview**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

*Prerequisite: PARA 100 with a minimum grade of C or concurrent enrollment.*

Overview of California civil procedure from acceptance of case to trial. Planning litigation, pleadings, motions, discovery, and trial preparation. CSU

**PARA 144****Introduction to eDiscovery**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Focus on the discovery phase of litigation with specific instruction on eDiscovery. The study of the California Rules of Court, California Statutes and procedures for e-filing and eDiscovery regulations regarding the retention and production of electronic data in a civil litigation case. Practical applications for paralegals. CSU

**PARA 145****Civil Litigation Overview**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Overview of California procedures from acceptance of a case through trial. Planning litigation, motions, discovery, and trial preparation. Preparation of pleadings. Overview of California discovery rules, preparation of discovery documents, and responses. CSU

**PARA 146****Tort Law and Alternative Dispute Resolution**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Intentional torts, negligence, strict liability, product liability, damages, immunity, and defenses to torts. Principles of insurance law and procedures for the investigation of personal injury cases. Principles of dispute resolution through negotiation, mediation, and arbitration. Students will mediate impartially and use tools to maximize negotiation effectiveness. The course includes application of mediation skills in the law office. CSU

**PARA 147****International Commercial Agreements and Distribution Law**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Learn to create business contracts in the global marketplace and how to use the U.N. Convention on Contracts for the International Sale of Goods. Learn about contracts with foreign sales representatives and laws regulating international distribution. Learn about international limited liability companies and foreign direct investment laws (Same as Business 147). CSU

**PARA 148****International Intellectual Property Law**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Learn international intellectual property law - patents, copyrights, trademarks, and trade secrets. Learn international treaties relating to intellectual property rights. Learn technology licensing agreements and international franchising (Same as Business 148). CSU

**PARA 149****The Law of Global Commerce**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

How countries join together to create trade. Includes NAFTA, GATT, the EU, and other trade agreements around the world. Explore law in different legal systems as well as U.S. export regulations (Same as Business 149). CSU

**PARA 150****Legal Transactions**

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

Introduction to contracts and drafting legal documents for corporations and real estate transactions. Contract formation, performance, breach, and third party interests. Students will learn the laws of the California Corporations Code and the laws governing real estate transactions. Students will learn to draft various contracts and other documents and will select, edit, and customize formbook and computerized forms in real property, corporations, family law, and estate planning. CSU

**PARA 246****Legal Research and Analysis**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Recommended Preparation: LAW 100 or PARA 100 with a minimum grade of C.

Principles of legal research, legal analysis, and techniques for the Paralegal to assist an attorney in the delivery of legal services to their client. CSU

**PARA 248****Advanced Research and Writing**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: PARA 246 with a minimum grade of C.*

Advanced projects in legal research and writing emphasis on legal form and style. Students must pass Para 246 with a C or better prior to taking Para 248. CSU

**PARA 297****The Professional Paralegal**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This is the capstone class to the paralegal degree. Students will demonstrate their knowledge of ethics, legal principles, and the technical skills necessary for entry level employment as a paralegal. This course is to be taken in the semester of or prior to graduation. This course will include preparation of graduation petitions, professional resumes and a professional portfolio that will include work prepared in Para 101, Para 121, Para 120, Para 145 and Para 150. Students will be required to certify they are in the second to last or last semester prior to graduation. (Pass/ No Pass Only) CSU

**PARA 299****Cooperative Work Experience Education**

Unit(s): 1.0-4.0 Class Hours: 60.0-300.0 Lab total.

This work experience course of supervised employment is designed to assist students to acquire career awareness, work habits, attitudes and skills related to the student's college major. A student can earn 1 to 4 units per semester, up to a maximum of 16 units total. Additionally, students must work 75 paid hours or 60 non-paid hours per unit earned. CSU

**PHARMACY TECHNOLOGY (PHAR)****PHAR 048****Introduction to Pharmacy Technology**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

Overview of the SAC Pharmacy Technician training program. Definition of the roles and preview of the opportunities open to pharmacy technicians in various practice settings. Presentation of pharmaceutical dosage forms, the drug development process, and drug classification systems. Introduction to prescription labeling and to the law and ethics of pharmacy practice.

**PHAR 051****Body Systems I**

Unit(s): 3.5 Class Hours: 63.0 Lecture total.

Anatomy, physiology, pathology, and pharmacology of the musculoskeletal, respiratory, renal, and cardiovascular systems. Basic terminology, with emphasis on word analysis and construction, medical abbreviations, and lay terms. Trade/generic names and indications for each body system.

**PHAR 052****Body Systems II**

Unit(s): 3.5 Class Hours: 63.0 Lecture total.

Anatomy, physiology, pathology, and pharmacology of the integumentary, endocrine, gastrointestinal, and nervous systems. Basic terminology, with emphasis on word analysis and construction, medical abbreviations, and lay terms. Trade/generic drug names and indications for medications in each body system. Emphasis on top 200 drugs.

**PHAR 054A****Beginning Pharmacy Calculations**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Recommended Preparation: MATH N06 with a minimum grade of C.

This course introduces students to calculations related to drug dosage and preparation of medications. Interconversion of units in the metric and common systems of measurement are included. There is emphasis on unit-cancellation for solving pharmacy situation problems, as well as a strong verbal component.

**PHAR 054B****Advanced Pharmacy Calculations**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

*Prerequisite: PHAR 054A with minimum grade of C.*

Students will learn calculations related to drug dosage using body surface area, measurements of strength, and preparation of medications. Calculations of dosage strength include ratio strength, percentage strength, and milligram percentage strength. Common dilutional calculations and allegation methods are included. There is emphasis on unit-cancellation for solving pharmacy situation problems as well as strong verbal component.

**PHAR 056****Pharmacy Operations**

Unit(s): 4.5 Class Hours: 54.0 Lecture, 90.0 Lab total.

*Prerequisite: PHAR 048 and PHAR 051 or PHAR 052 and PHAR 054B with a minimum grade of C; Typing proficiency minimum of 30 wpm with 95% accuracy.*

Hands-on training in customer service, inventory control, compounding, packaging, record-keeping, and drug distribution in the outpatient pharmacy setting. Includes prescription lab simulations and use of computers.

**PHAR 056L****Pharmacy Technology Skills Lab**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Corequisite: PHAR 056.

Supervised use of the Pharmacy Technology skills lab (a supplemental learning assistance course) to assist the students in developing competency in the technical skills required to successfully complete the Pharmacy Operations lab class. Additionally, this Skills Lab class allows students working in one setting of pharmacy to come back and practice skills in another setting. Skills lab class also allows students with significant time lapsed from program attendance to prepare for externship or job placements. Significant time lapsed is defined as 1 year by departmental policy in compliance with the American Society of Health-System Pharmacists' re-accreditation body. Lab hours verified by sign-in. One-half (0.5) unit is required for the Advanced Certificate and A.S. degree.

**PHAR 057****Inpatient Pharmacy Services**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

*Prerequisite: PHAR 048 and PHAR 051 or PHAR 052 and PHAR 054B with a minimum grade of C; Typing proficiency of 30 WPM with 95% accuracy.*

Technical aspects of drug distribution for the inpatient (hospital) pharmacy setting. Hands-on training in medication order processing, pharmacy patient profile maintenance, medication preparation (includes packaging), and inpatient drug distribution using manual and automated systems. Includes electronic and manual record-keeping, pharmacy law, and CQI. Hands-on training in medication reconciliation in the emergency room setting. Develop and enhance communication and patient-interviewing skills through various communication methods.

**PHAR 057L****Pharmacy Technology Skills Lab**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Corequisite: PHAR 057.

Supervised use of the Pharmacy Technology skills lab (a supplemental learning assistance course) to assist the students in developing competency in the technical skills required to successfully complete the Inpatient Pharmacy Services lab class (PHAR 057). Additionally, this Skills Lab class allows students working in one setting of pharmacy to come back and practice skills in another setting. Skills lab class also allows students with significant time lapsed from program attendance to prepare for externship or job placements. Significant time lapsed is defined as 1 year by departmental policy, in compliance with the American Society of Health-System Pharmacists' re-accreditation body. Lab hours verified by sign-in. One-half (0.5) unit is required for the Advanced Certificate and A.S. degree.

**PHAR 060****Sterile Products**

Unit(s): 4.5 Class Hours: 54.0 Lecture, 90.0 Lab total.

*Prerequisite: PHAR 048 and PHAR 051 or PHAR 052; PHAR 054B; typing proficiency of 30 WPM with 95% accuracy.*

Application of aseptic techniques and use of the laminar flow hood in the preparation of sterile products in accordance to USP 797. Emphasis on parenteral calculations, sterile dosage forms, and quality assurance procedures. Includes the pharmacology of antimicrobial and antineoplastic drugs.

**PHAR 060L****Pharmacy Technology Skills Lab**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Corequisite: PHAR 060.

Supervised use of the Pharmacy Technology skills lab (a supplemental learning assistance course) to assist the students in developing competency in the technical skills required to successfully complete the Sterile Products lab class (PHAR 060). Additionally, this Skills Lab class allows students working in one setting of pharmacy to come back and practice skills in another setting. Skills lab class also allows students with significant time lapsed from program attendance to prepare for externship or job placements. Significant time lapsed is defined as 1 year by departmental policy in compliance with the American Society of Health-System Pharmacists' re-accreditation body. Lab hours verified by sign-in. One-half (0.5) unit is required for the Advanced Certificate and A.S. degree.

**PHAR 072A****Pharmacy Technology Externship Outpatient**

Unit(s): 0.5-1.5 Class Hours: 45.0-90.0 Lab total.

*Prerequisite: PHAR 056 and CMST 101 or CMST 101H or CMST 102 or CMST 097 for non-native speakers; Background checks, health screening, current TB clearance and drug test clearance.*

On-site training in the outpatient (retail) practice setting. Students must complete PHAR 056 lab class to qualify for the outpatient rotation. Students must pass the trade-generic test prior to placement. Some sites require additional background, health screenings, and drugs tests. Completion of the outpatient rotation PHAR 072A is required for the Basic Certificate. Completion of PHAR 072A, PHAR 072B, PHAR 072C rotations (320 hours) is required for the advanced certificate and Associate Degree. (Pass/No Pass Only)

**PHAR 072B****Pharmacy Technology Externship Inpatient**

Unit(s): 0.5-2.5 Class Hours: 40.0-135.0 Lab total.

*Prerequisite: PHAR 056 and PHAR 057 and CMST 101 or CMST 101H or CMST 102 or CMST 097 for non-native speakers; Background checks, health screenings, current TB clearance and drug test clearance.*

On-site training in the inpatient (hospital) practice setting. Students must complete the following lab courses prior to placement: PHAR 057 and PHAR 056. Students must pass the trade-generic test prior to placement. Some sites require additional background, health screenings, and drugs tests. Completion of PHAR 072A, PHAR 072B, PHAR 072C rotations (320 hours) is required for the advanced certificate and Associate Degree. At the end of the rotation, the instructor will use the attendance records and competency forms as input from preceptors to assess the student learning outcomes and to help determine final grades. Students can refer to the course overview to understand the details of final grade assignments. (Pass/No Pass Only)

**PHAR 072C****Pharmacy Technology Externship Sterile Products**

Unit(s): 0.5-2.5 Class Hours: 40.0-135.0 Lab total.

*Prerequisite: PHAR 060 and CMST 101 or CMST 101H or CMST 102 or CMST 097 for non-native speakers; Background checks, health screenings, current TB clearance and drug test clearance.*

On-site training in the home infusion or sterile products pharmacy practice setting. Students must complete the following lab course prior to placement: PHAR 060. Students must pass the trade-generic test prior to placement. Some sites require additional background, health screenings, and drugs tests. Completion of PHAR 072A, PHAR 072B, PHAR 072C Rotations (320 hours) is required for the advanced certificate and Associate Degree. At the end of the rotation, the instructor will use the attendance records and competency forms as input from preceptors to assess the student learning outcomes and to help determine final grades. Students can refer to the course overview to understand the details of final grade assignments. (Pass/No Pass Only)

**PHAR 072L-1****Pharmacy Technology Skills Lab**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Corequisite: PHAR 056; Returning students who took PHAR 056 can take PHAR 072L-1 alone

Supervised use of the Pharmacy Technology skills lab (a supplemental learning assistance course) to assist the students in developing competency in the technical skills required to successfully complete the Outpatient Pharmacy Technology Externship rotation (PHAR 072). Additionally, this Skills Lab class allows students working in one setting of pharmacy to come back and practice skills in another setting. Skills lab class also allows students with significant time lapsed from program attendance to prepare for externship or job placements. Significant time lapsed is defined as 1 year by departmental policy in compliance with the American Society of Health-System Pharmacists' re-accreditation body. Lab hours verified by sign-in. One-half (0.5) unit is required for the Advanced Certificate and A.S. degree.

**PHAR 072L-2****Pharmacy Technology Skills Lab**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Corequisite: PHAR 057; Returning students who took PHAR 057 can take PHAR 072L-2 alone.

Supervised use of the Pharmacy Technology skills lab (a supplemental learning assistance course) to assist the students in developing competency in the technical skills required to successfully complete the Inpatient Pharmacy Technology Externship rotation (PHAR 072). Additionally, this Skills Lab class allows students working in one setting of pharmacy to come back and practice skills in another setting. Skills Lab class also allows students with significant time lapsed from program attendance to prepare for externship or job placements. Significant time lapsed is defined as 1 year by departmental policy in compliance with the American Society of Health-System Pharmacists' re-accreditation body. Lab hours verified by sign-in. One-half (0.5) unit is required for the Advanced Certificate and A.S. degree.

### **PHAR 072L-3**

#### **Pharmacy Technology Skills Lab**

Unit(s): 0.5-1.0 Class Hours: 27.0-54.0 Lab total.

Corequisite: PHAR 060; Returning students who took PHAR 060 can take PHAR 072L-3 alone.

Supervised use of the Pharmacy Technology skills lab (a supplemental learning assistance course) to assist the students in developing competency in the technical skills required to successfully complete the Pharmacy Externship Sterile Products rotation (PHAR 072). Additionally, this Skills Lab class allows students working in one setting of pharmacy to come back and practice skills in another setting. Skills lab class also allows students with significant time lapsed from program attendance to prepare for externship or job placements. Significant time lapsed is defined as 1 year by departmental policy in compliance with the American Society of Health-System Pharmacists' re-accreditation body. Lab hours verified by sign-in. One-half (0.5) unit is required for the Advanced Certificate and A.S. degree.

### **PHILOSOPHY (PHIL)**

#### **PHIL 106 (C-ID PHIL 100)**

##### **Introduction to Philosophy**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A survey of historical and contemporary ideas on how to live the good life. CSU/UC

#### **PHIL 106H (C-ID PHIL 100)**

##### **Honors Introduction to Philosophy**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

An enriched approach designed for honors students. A survey of historical and contemporary ideas on how to live the good life. CSU/UC

#### **PHIL 108 (C-ID PHIL 120)**

##### **Ethics**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduction to key historical and modern theories of philosophical ethics and the application of these theories to ethical issues facing society today. Assists in clarifying our thinking about morality/ethics. Course increases awareness of values in personal and contemporary issues. CSU/UC

#### **PHIL 110**

##### **Critical Thinking**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C.* College-level critical thinking and writing. Promotes self-awareness, independent thinking, and improved academic expression. Examines philosophical methods of reasoning and composition, and the uses of informal logic and criticism in personal life, college, work, and democratic society. CSU/UC

### **PHIL 110H**

#### **Honors Critical Thinking**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: ENGL 101 or ENGL 101H with a minimum grade of C AND a cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

An enriched approach designed for honors students in a seminar setting. College-level critical thinking and writing. Promotes self-awareness, independent thinking, and improved academic expression. Examines philosophical methods of reasoning and composition, and the uses of informal logic and criticism in personal life, college, work, and democratic society. CSU/UC

#### **PHIL 111 (C-ID PHIL 110)**

##### **Introductory Logic**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

Beginning course in formal and applied logic. Covers cognitive language, formal argument, proof, basic propositional and predicate logic, and philosophy of logic. Emphasizes active student involvement and practical application to college life. CSU/UC

#### **PHIL 112**

##### **World Religions**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A philosophical overview of the world's great religions. Includes historical origin and growth of each religion, major doctrines, and influence. Religions dealt with include Indigenous Religions, Hinduism, Jainism, Buddhism, Taoism, Confucianism, Judaism, Christianity and Islam. CSU/UC

#### **PHIL 118**

##### **History of Philosophy**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to philosophy from an historical perspective: getting acquainted with the thoughts of the world's great philosophers. Provides a survey of the dominant philosophies of the ancient, medieval, and modern worlds. CSU/UC

### **PHOTOGRAPHY (PHOT)**

#### **PHOT 009**

##### **Photography Lab**

Unit(s): 0.5 Class Hours: 27.0 Lab total.

*Prerequisite: Concurrent enrollment in another photography course.*

Sign-in/out supervised laboratory. Work on assignments from other photography courses or on independent projects. Completion of new and more advanced assignments each semester. Accumulation of 24 hours earns 0.5 unit. Requires concurrent enrollment in a photography course.

#### **PHOT 150**

##### **History of Photography**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A survey of the history, aesthetics, and technical evolution of photography including an in-depth view of artistic styles and individual photographers' contributions from the 19th century to the present. CSU/UC

**PHOT 180****Beginning Photography**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

This course provides students with an introduction to visual concepts, basic image capture, and camera functions with digital cameras. Software basics for photographic imaging and digital printing. CSU/UC

**PHOT 185A****Landscape Photography**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite: PHOT 180 with a minimum grade of C.*

This course concentrates on producing images under available light conditions found in natural and man-made environments. Topics include creating awareness of light and its function along with learning techniques for exposing under many different lighting conditions. CSU

**PHOT 185B****Landscape Photography**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite: PHOT 185A with a minimum grade of C.*

Continued instruction in cityscape, seascape, and landscape photography with special attention given to documentary, pictorial, and metaphorical styles. A DSLR camera required. CSU

**PHOT 191****Commercial Studio Practices**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite: PHOT 180 with a minimum grade of C.*

Instruction in specialized technical alternatives utilized in commercial studio photography. Emphasis will be on professional image-making with digital cameras, using scanning, digital printing, and commercial lighting techniques. CSU

**PHOT 194****Digital Workflow**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite: PHOT 180 with a minimum grade of C.*

This class will provide a foundation for capturing and processing RAW digital photo files with high end digital imaging hardware and software. Emphasis on creating organization of files for client needs. CSU

**PHOT 196****Commercial Photography**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite: PHOT 180 with a minimum grade of C.*

This course instructs the student with lighting and studio techniques as commonly used in professional photographic applications. The emphasis will be on light and the use of lighting equipment in both studio and location situations. CSU

**PHOT 197****Intermediate Commercial Photography**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite: PHOT 196 with a minimum grade of C.*

Intermediate techniques in commercial photography using available and studio lighting. Further studies in the commercial subject areas of portrait/wedding, architecture, table top/product illustration, stock photography and photojournalism. CSU

**PHOT 291****Wedding and Quinceañera Photography**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite: PHOT 180 with a minimum grade of C.*

Instruction in fundamental concepts, equipment demands, and photographic techniques used by contemporary wedding/quinceañera photographers. CSU

**PHOT 292****Portrait Photography**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite: PHOT 180 with a minimum grade of C.*

In this course the student will learn portrait styles and techniques using both natural, and artificial lighting in the studio and on location. CSU

**PHOT 294****Color Photographic Expression**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite: PHOT 180 with a minimum grade of C.*

Introduction to the theory and practice of color in Fine Art Photography. Printing color photographs as a fine art medium. Course includes lectures, interpretive (field) assignments, laboratory work, research of well-known photographers using color in fine art photography and critiques. Camera required. CSU

**PHYSICAL SCIENCE (PSC)****PSC 115****Concepts in Physical Sciences for Educators**

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

An investigation of basic principles of physics and chemistry including matter, physical and chemical properties, energy, motion, light, atomic structure, bonding, solutions and chemical reactions. The inter-dependence of chemistry and physics will be emphasized. Designed for non-science majors, concepts are introduced in lab through inquiry and further developed during discussion. Completion of Math N48 is recommended (Same as Chemistry 115). CSU/UC

**PSC 117****Physical Science Survey**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduction to the methods of science and concepts relating to mechanics, states of matter, waves, heat, electricity, light, atomic structure, and chemical reactions. May include topics from Earth and space science. Emphasis is on basic principles, relationships, and applications to modern civilization. This course is open to all majors. Concurrent enrollment in Physical Science 118 is highly recommended. CSU/UC

**PSC 118****Physical Science Survey Laboratory**

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Laboratory course to accompany Physical Science 117. Laboratory topics include: motion, forces, energy, thermodynamics, electricity, circuits, optics, and chemical reactions. CSU/UC

**PHYSICS (PHYS)****PHYS 109****Survey of General Physics**

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

The study of important phenomena in physics. Topics include mechanics, fluids, thermodynamics, sound, light, electricity, magnetism, and modern physics. Recommended for all students interested in a conceptual approach to physics and students planning on taking more advanced courses in physics. CSU/UC

**PHYS 210 (C-ID PHYS 105; C-ID PHYS 205)****Principles of Physics I**

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

*Prerequisite: MATH 180 or MATH 180H with a minimum grade of C.*

A calculus-based physics course designed for students majoring in the life sciences, pre- medicine, and related disciplines. Topics include classical mechanics, wave motion, and thermodynamics. CSU/UC

**PHYS 211 (C-ID PHYS 110)****Principles of Physics II**

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

*Prerequisite: PHYS 210 and MATH 180 or MATH 180H with a minimum grade of C.*

A calculus-based physics course designed for students majoring in the life sciences, pre- medicine, and related disciplines. Topics include: electricity and magnetism, light, optics, and modern physics. CSU/UC

**PHYS 217 (C-ID PHYS 205)****Engineering Physics I**

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

*Prerequisite: MATH 180 or MATH 180H with a minimum grade of C.*

Principles of classical mechanics including particle dynamics, forces, work, energy, momentum, rotational motion, equilibrium, harmonic motion, and gravity. This course is designed for students majoring in physical sciences and engineering. CSU/UC

**PHYS 227 (C-ID PHYS 210)****Engineering Physics II**

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

*Prerequisite: PHYS 217 and MATH 185 with a minimum grade of C.*

Introduces the basic principles of electricity and magnetism. The main topics are electrostatics, circuits, magnetism, electro- magnetic induction, and Maxwell's equations. This course is designed for students majoring in physical sciences and engineering. CSU/UC

**PHYS 237****Engineering Physics III**

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

*Prerequisite: PHYS 217 and MATH 185 with a minimum grade of C.*

Introduces the basic principles of fluids, thermodynamics, sound, light, optics, and modern physics. This course is designed for students majoring in physical sciences and engineering. CSU/UC

**PHYS 279 (C-ID PHYS 105)****College Physics I**

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

*Prerequisite: MATH 162 with a minimum grade of C.*

A trigonometry-based physics course. Topics include: mechanics, thermodynamics, fluids, oscillatory motion, and sound. CSU/UC

**HYS 289 (C-ID PHYS 110)****College Physics II**

Unit(s): 4.0 Class Hours: 54.0 Lecture, 54.0 Lab total.

*Prerequisite: PHYS 279 and MATH 162 with a minimum grade of C.*

A trigonometry-based physics course. Topics include: light, electricity, magnetism, and modern physics. CSU/UC

**POLITICAL SCIENCE (POLT)****POLT 101 (C-ID POLS 110)****American Government and Politics**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Study of United States national government and California state and local governments. Satisfies graduation requirement for American institutions and state requirements for California state government. CSU/UC

**POLT 101H (C-ID POLS 110)****Honors American Government and Politics**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

A student-oriented exploration of the historical and contemporary principles of American government. Study groups and individual computer-based research focus on basic political concepts of American national and state governments. Satisfies graduation requirement for American Institutions and state requirements for California state government. CSU/UC

**POLT 200 (C-ID POLS 120)****American Political Thought**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Examination of various theoretical approaches to politics within the American political context. Analysis of selected political theories and their application to American politics. CSU/UC

**POLT 200H (C-ID POLS 120)****Honors American Political Thought**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students).*

Examination of various theoretical approaches to politics within the American political context. Analysis of selected political theories and their application to American politics. CSU/UC

**POLT 201 (C-ID POLS 130)****Introduction to Comparative Politics**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A comparative analysis of different kinds of political systems; including their histories, political institutions, processes and policies, the environment in which they occur, and their consequences. CSU/UC

**POLT 220 (C-ID POLS 140)****International Politics**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to international relations theory with an examination of national, international, transnational, and sub-national actors and their institutions, interactions and processes as they relate to global issues. CSU/UC

**POLT 235****Identity Politics**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An inquiry into the history of racial/ethnic minority groups in American politics with an emphasis on political coalitions among different minority groups in contemporary politics. CSU/UC

**PSYCHOLOGY (PSYC)****PSYC 100 (C-ID PSY 110)****Introduction to Psychology**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to the major theories, methods, concepts, ethical issues, and findings in the major fields in psychology including (but not limited to): biological bases of behavior, perception, cognition and consciousness, learning, memory, emotion, motivation, development, personality, social psychology, psychological disorders and therapeutic approaches, and applied psychology. CSU/UC

**PSYC 100H (C-ID PSY 110)****Honors Introduction to Psychology**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

Seminar style, content enriched course for honors students exploring the major theories, methods, concepts, ethical issues, and findings in the major fields in psychology including (but not limited to): biological bases of behavior, perception, cognition and consciousness, learning, memory, emotion, motivation, development, personality, social psychology, psychological disorders and therapeutic approaches, and applied psychology. CSU/UC

**PSYC 140****Introduction to Psychology of Adulthood and Aging**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Examines psychological and related biological and social changes that occur in adulthood and old age and how these changes vary with ethnicity, gender and social class. Topics include longevity, health, successful aging, intimate and family relationships and mental disorders of adulthood. Designed to help students understand their own and others' aging and to familiarize them with issues in the field of gerontology. CSU/UC

**PSYC 157 (C-ID CDEV 100)****Introduction to Child Psychology**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Survey of human development from conception through adolescence. Covers major theories of development (cognition, perception, language, personality, social, etc.) and their application to parenting, teaching, and other interactions with children. (No credit if student has taken Child Development 107.) CSU/UC

**PSYC 160 (C-ID PSY 180)****Introduction to Lifespan Psychology**

*Formerly: PSYC 180, Introduction to Lifespan Psychology*

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduction to human development from a psychological perspective. Explores human development from conception through death, including biological and environmental influences. Theories and research of physical, cognitive, personality, and social development are examined from classical and contemporary perspectives. Attention will also be given to both normative and non-normative development. CSU/UC

**PSYC 170****Multicultural Psychology**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduces students to important issues related to cultural diversity in the field of psychology. Major areas of psychology will be explored from a multicultural perspective, including research, mental health, social psychology, and identity development. Exploration of historically underrepresented populations in the U.S. will be emphasized. CSU/UC

**PSYC 200 (C-ID PSY 150)****Introduction to Biological Psychology**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Explores relationships between physiological structures of the body and human behavior. Focuses on the organization and function of the brain, spinal cord, peripheral nervous system, glands, sensory and perceptual systems. Relates physiological functioning to motivated behavior, addiction, and psychological disorders. CSU/UC

**PSYC 210 (C-ID SOCI 125; C-ID MATH 110)****Statistics for the Behavioral Sciences**

Unit(s): 4.0 Class Hours: 72.0 Lecture total.

*Prerequisite: MATH 083 or MATH 084 OR placement into Psychology 210 on the Mathematics Level 3 placement Exam and a course equivalent to MATH 083 or 084.*

Introduces psychology and behavioral science majors to descriptive and inferential statistical methods. Knowledge of these methods is essential to the understanding, interpretation, and performance of scientific research. Topics covered include probability theory, hypothesis testing, correlation, analysis of variance, the graphical representation of data, basic research design, and the use of computer software to perform statistical analyses. CSU/UC

**PSYC 219 (C-ID PSY 200)****Introduction to Research Methods in Psychology**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite: MATH 219 or PSYC 210 may be taken concurrently and PSYC 100.*

Emphasizes methods of study in psychology, experimental design, analysis of variables contributing to experimental results, and data treatment. CSU/UC

**PSYC 230 (C-ID PSY 115)****Psychology and Effective Behavior**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Introduction to psychoanalytic, behavioristic, cognitive, humanistic and existential theories of personality as they relate to dealing effectively with the changing demands of everyday life. Covers personal growth, self- concept, stress and coping, personal goals and motivation, and interpersonal relationships in relation to culture, gender, ethnicity, historical cohort, and socio-economic status. Includes exercises for increasing self-awareness, identifying personal goals, and for building skills for effective living and well-being. CSU/UC

**PSYC 240 (C-ID PSY 170)****Introduction to Social Psychology**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: PSYC 100 or SOC 100 with a minimum grade of C.*

An exploration of the interlocking dynamics of psychology and sociology focusing on the impact of social groups on individuals and on other groups. Content includes self- development, interaction, attitudes, conformity, friendship, love, aggression, group dynamics (Same as Sociology 240). CSU/UC



## **PSYC 250**

### **Introduction to Abnormal Psychology**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: PSYC 100 or PSYC 100H with a minimum grade of C.*

Introduction to the commonly diagnosed psychological disorders. Includes psychophysiological disorders, anxiety, depression, substance abuse, sexual dysfunctions, schizophrenia, developmental, cognitive, and personality disorders. Emphasis is on identification, symptomatology, etiology, and methods of therapeutic intervention. CSU/UC

## **READING (READ)**

### **READ N50**

#### **Groundwork for Reading**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A reading course for students needing to build vocabulary and enhance reading comprehension. Recommended for students in English N50 or EMLS 055. Not applicable to associate degree. Grade: P/NP only.

### **READ N80**

#### **Fundamentals of Reading**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Instruction in basic reading skills including techniques for improving vocabulary and spelling, word attack skills, and reading comprehension. Recommended for students in English N60 or EMLS 055 or 107. Not applicable to associate degree. Grade: Pass/No Pass only.

### **READ 096**

#### **Individualized Reading Skills**

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Individualized instruction in vocabulary, comprehension, critical evaluation, and reading rate. Grade: Pass/No Pass only. Open Entry/Open Exit.

### **READ 098**

#### **Topics in Reading**

Unit(s): 1.0-3.0 Class Hours: 18.0-54.0 Lecture total.

Specialized courses on topics related to current needs of students. Not offered every semester. Grade: Pass/No Pass only.

### **READ 101**

#### **Introduction to Academic Reading**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: Successful completion of Read N80 (with a grade of C or better) or appropriate score on college placement test is recommended.

Instruction toward students' mastery of higher-level vocabulary, reading comprehension at the level of proficiency, critical evaluation of college-level text and improvement of reading rate. CSU

### **READ 101A**

#### **Modules in Academic Reading - Vocabulary**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Intensive instruction in college-level vocabulary, including dictionary skills, word analysis, etymology, and context clues. Material may be discipline-specific, such as vocabulary in the humanities, social sciences, CTE, and STEM. CSU

### **READ 101B**

#### **Modules in Academic Reading - Comprehension**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Intensive instruction in college-level reading comprehension. Includes identification of the main idea and details that support it. Study reading strategies will include annotations, summaries, outlines, mapping. Material may be discipline-specific, such as text from the humanities, social sciences, CTE, and STEM. CSU

### **READ 101C**

#### **Modules in Academic Reading - Analysis and Critical Evaluation**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Intensive instruction in advanced reading comprehension and critical evaluation of college-level text. Material may be discipline-specific, such as text from the humanities, social sciences, CTE, and STEM. CSU

### **READ 101X**

#### **Acceleration to Academic Reading**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Accelerated instruction in basic reading skills culminating in students' mastery of higher-level vocabulary, reading comprehension at the level of proficiency and critical evaluation of college-level text. CSU

### **READ 102**

#### **Academic Reading**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: Successful completion of Read 101 (with a grade of C or better) or appropriate score on college placement test is recommended.

Introduces a repertoire of reading strategies aimed at preparing students for comprehension of complex college-level reading material.

Advanced reading strategies provide the foundation for the development of critical reading and the recognition of patterns of academic thought. Reading strategies for specific disciplines, including the social sciences, business, humanities and the arts, mathematics and the natural sciences are presented. CSU

### **READ 150**

#### **Critical Reading**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Recommended Preparation: ENGL 101 or ENGL 101H with a minimum grade of C.

This course addresses the relationship between critical reading and critical thinking, including emphasis on the development of critical reading and thinking skills that facilitate the interpretation, analysis, criticism, and advocacy of ideas encountered in academic reading. CSU/UC

### **READ 198**

#### **Topics**

Unit(s): 1.0-3.0 Class Hours: 18.0-54.0 Lecture total.

Specialized courses on topics related to current needs of students. Not offered every semester. CSU

**SOCIOLOGY (SOC)****SOC 100 (C-ID SOCI 110)****Introduction to Sociology**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The scientific study of human societies and behavior focusing on the process of social interaction, patterns of social inequality, and the influence of social institutions on individuals as members of social groups. Special emphasis provided to explain factors promoting social stability and social change. CSU/UC

**SOC 100H (C-ID SOCI 110)****Honors Introduction to Sociology**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

A seminar-style, content-enriched course to provide a critical and extensive exploration of the sociological perspective, methods, and theories of social interaction, stability and change. Focuses on the importance of sociology for understanding individuals in a social context and provides a comprehensive understanding of and scientific way of thinking about society. CSU/UC

**SOC 112 (C-ID SOCI 130)****Relationships, Marriages, and Family Dynamics**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

In-depth examination of the process of developing intimate relationships leading to committed partnerships and marriages with emphasis on effective communication techniques, understanding relationship dynamics, parenting, diverse family systems and overcoming family stressors at each life stage. CSU/UC

**SOC 140 (C-ID SOCI 115)****Social Problems**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An extensive survey of contemporary social trends and problems through sociological analysis concentrating on their causes, complexities, consequences, and possible solutions. Special emphasis will be placed on the problems in the U.S., with consideration of the global perspective. CSU/UC

**SOC 140H (C-ID SOCI 115)****Honors Analysis of Social Trends and Problems**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students)*

A seminar-style, in-depth sociological analysis and critique of U.S. social trends and problems with an emphasis on contemporary and historical social policy with additional consideration of global perspectives. CSU/UC

**SOC 240 (C-ID PSY 170)****Introduction to Social Psychology**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: SOC 100 or PSYC 100 with a minimum grade of C.*

An exploration of the interlocking dynamics of psychology and sociology focusing on the impact of social groups on individual and on other groups. Content includes self-development, interaction, attitudes, conformity, friendship, love, aggression, group dynamics (Same as Psychology 240). CSU/UC

**SOC 401****The Sociology of Health, Illness, and Healing**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: SOC 100 or SOC 100H with a minimum grade of C; Limitation on enrollment: Student must be admitted to the Occupational Studies program.*

This course analyzes the social contexts of health, illness, and organized medical care. It examines empirical research and theory of the changing concepts of health, illness and medical practice in their socio-historical contexts. Topics will include: social epidemiology, the biomedical and social construction of health/illness, the experience of illness, the historical transformation of the health professions and the health work force, disparities in health care, medical technology, global comparisons of health care and health care reform.

**SPANISH (SPAN)****SPAN 101 (C-ID SPAN 100)****Elementary Spanish I**

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

Practice and integration of pronunciation, grammar, vocabulary, common idioms, listening, speaking, reading, and writing techniques for the expression of ideas orally and in writing. Introduction to Hispanic culture. Designated sections focus on skills for Spanish speakers. Spanish 101 is equivalent to two years of high school Spanish. CSU/UC

**SPAN 101H (C-ID SPAN 100)****Honors Elementary Spanish I**

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

*Prerequisite: A cumulative GPA of 3.0 or higher in college work (or high school for first-term students).*

Enhanced and intensive practice and integration of pronunciation, grammar, vocabulary, common idioms, listening, speaking, reading, and writing techniques for the expression of ideas orally and in writing. Enriched introduction of Hispanic culture. Note: Some sections are designated for Spanish speakers. Spanish 101H is equivalent to two years of high school Spanish. CSU/UC

**SPAN 102 (C-ID SPAN 110)****Elementary Spanish II**

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

*Prerequisite: SPAN 101 or SPAN 101H with a minimum grade of C or two years of high school Spanish with a passing grade. All Cal State and UC universities Spanish programs require a minimum grade of C in Spanish 101 or two years in high school with a passing grade.*

A college-level Spanish class focusing on further training in language skills providing avenues for the expression of ideas orally and in writing. Additional study of Hispanic culture. Designated sections focus on skills for Spanish speakers. Spanish 102 is equivalent to the third year of high school Spanish. CSU/UC

**SPAN 102H (C-ID SPAN 110)**

**Honors Elementary Spanish II**

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

*Prerequisite: SPAN 101 or SPAN 101H with a minimum grade of C AND A high school or college GPA of 3.0 or above OR two years of high school Spanish with a passing grade. All Cal State and UC universities have the same prerequisites for Spanish 102H.*

Further enhanced and intensive training in language skills for the expression of ideas orally and in writing. Additional enriched study of Hispanic culture. Note: Some sections are designated for Spanish speakers. Spanish 102H is equivalent to the third year of high school Spanish. CSU/UC

**SPAN 195A**

**Advanced Conversational Spanish**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: SPAN 102 or SPAN 102H with a minimum grade of C.*

Further development of conversational skills. Review of language structures as well as reinforcement of new vocabulary and idioms through discussions of reading selections dealing with historical and current events to deepen appreciation of Hispanic cultures. CSU/UC

**SPAN 195B**

**Advanced Conversational Spanish**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: SPAN 195A with a minimum grade of C.*

Continuation of development of conversational skills. Provides avenues for the expression of ideas introduced in literary and current event readings through discussions and class presentations to deepen appreciation of Hispanic cultures. CSU/UC

**SPAN 201 (C-ID SPAN 200)**

**Intermediate Spanish I**

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

*Prerequisite: SPAN 102 or SPAN 102H with a minimum grade of C OR three years of high school Spanish with a passing grade.*

*These prerequisites are also required in Cal State and UC Spanish universities.*

A college level Spanish class focusing on expansive review of usage and grammar, discussions of interpretive readings, conversation, and composition. CSU/UC

**SPAN 201H (C-ID SPAN 200)**

**Honors Intermediate Spanish I**

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

*Prerequisite: Spanish 102 or 102H with a minimum grade of C and a high school or college GPA of 3.0 or above. All four-year public universities, Cal State and University of California Spanish Programs require the same prerequisites for Intermediate Spanish level course.*

An enriched exposure of Hispanic history, culture, and literature in a seminar setting. In- depth analysis of grammatical structures. Further use of argumentative oral strategies. Enhanced development of conversation and composition. Independent research by students to use/evaluate library and electronic information sources. CSU/UC

**SPAN 202 (C-ID SPAN 210)**

**Intermediate Spanish II**

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

*Prerequisite: SPAN 201 or SPAN 201H with a minimum grade of C OR four years of high school Spanish with a passing grade.*

A college-level Spanish class focusing on expansive review of usage and grammar; discussions in Spanish of interpretive reading materials; conversation and composition. CSU/UC

**SPAN 202H (C-ID SPAN 210)**

**Honors Intermediate Spanish II**

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

*Prerequisite: SPAN 201 or SPAN 201H with a minimum grade of C AND a high school or college GPA of 3.0 or above OR four-years of high school Spanish with a passing grade.*

An enriched exposure of Hispanic history, culture, and literature in a seminar setting. In- depth analysis of grammatical structures. Enhanced development of conversation and composition. Further use of argumentative oral strategies. Independent research by students to use/evaluate library and electronic information sources. CSU/UC

**SPAN 212**

**College Business Spanish**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: SPAN 202 or 202H with a minimum grade of C OR four-years of high school Spanish with a grade of C or better.*

A course designed to give intermediate level students a solid foundation in business vocabulary, basic business and cultural concepts, and provide practice of real-life situations necessary to be successful in today's Spanish-speaking business world. The course is designed for students majoring in Spanish, International Studies, and/or International Business. CSU/UC

**SPAN 213**

**College Spanish Composition**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: Spanish 201 with a minimum grade of C OR concurrent enrollment in SPAN 201 or three years of high school Spanish with a passing grade.*

Writing of composition through discussions and interpretive readings. CSU/UC

**SPECIAL SERVICES (SPEC)**

**SPEC N44**

**Reading Development for the Deaf**

Unit(s): 0.5-3.0 Class Hours: 9.0-54.0 Lecture total.

*Prerequisite: Student must be eligible for DSPS services from Deaf and Hard of Hearing Program and Services.*

Reading comprehension development for the deaf or hard of hearing students. Includes assessment of current skills and the development of an individualized program of study with the goal upon completion of enrolling in the college's reading/course sequence. Not applicable to associate degree. Open Entry/Open Exit

**SPEC N50A****English for the Deaf and Hard of Hearing**

Unit(s): 0.5-3.0 Class Hours: 9.0-54.0 Lecture total.

Language function and composition for the deaf or hard of hearing student. Includes assessment of current skills and development of an individualized program of study with the goal of enrolling in the college English course sequence. Student must submit proof of audio-logically verifiable hearing loss. Not applicable to associate degree. Open Entry/Open Exit

**SPEC N50B****English for the Deaf and Hard of Hearing**

Unit(s): 0.5-3.0 Class Hours: 9.0-54.0 Lecture total.

Mechanics of the English language and composition for the deaf or hard of hearing students as they prepare to place into college level English courses. Includes continuing improvement of English comprehension skills and grammar in increasingly complex sentence structures, writing skills, vocabulary development and disability related issues. Student must submit proof of audio-logically verifiable hearing loss. Not applicable to associate degree. Open Entry/Open Exit

**SPEC N84****Employment Preparation**

Unit(s): 0.5-3.0 Class Hours: 9.0-54.0 Lecture total.

A comprehensive course designed to prepare students for the transition from school to employment. Includes identifying appropriate job/career goals, assessing personal strengths, developing skills to obtain employment such as resume writing and interviewing, and utilizing contemporary technologies for securing meaningful employment, retention and advancement. (Pass/No Pass Only). Open Entry/Open Exit

**SPEC N91****Computer Assisted Cognitive Learning**

Unit(s): 0.5-1.5 Class Hours: 24.0-72.0 Lab total.

*Prerequisite: Verified brain impairment.*

*Fundamentals of Cognitive Retraining is designed for individuals who have sustained an acquired brain impairment and who are experiencing cognitive difficulties. Instruction focuses on improving attention and concentration, perceptual processing skills, and memory. Arranged schedule. (Pass/No Pass Only). Open Entry/Open Exit*

**SPEC N92****Assistive Computer Technology Instruction**

Unit(s): 0.5-2.0 Class Hours: 18.0 Lecture, 24.0 Lab total.

This course is intended for students with disabilities. Emphasis is on mastering appropriate assistive computer technologies and to provide instruction in Windows, Microsoft Office and Internet/E-Mail access. Not applicable to associate degree. (Pass/No Pass Only). Open Entry/Open Exit.

**SPEC N94****Intermediate Cognitive Retraining**

Unit(s): 0.5-1.5 Class Hours: 24.0-72.0 Lab total.

*Prerequisite: Verified brain impairment.*

*Intermediate Cognitive Retraining is designed for students who have sustained and acquired brain impairment. Instruction focuses on the use of compensatory memory strategies, utilizing critical thinking/problem solving skills and improving organizational skills. Arranged schedule. May be repeated. (Pass/No Pass Only)*

**SPEC N95****Cognitive Retraining - Academic Transition**

Unit(s): 0.5-1.5 Class Hours: 24.0-72.0 Lab total.

*Prerequisite: Verified brain impairment.*

Cognitive Retraining - Academic Transition is designed for students who have sustained an acquired brain impairment. Instruction focuses on utilizing and applying cognitive skills in the areas of reading, written language, and study skills strategies to achieve success in an academic program. Arranged schedule. May be repeated. (Pass/No Pass Only)

**SPEECH LANGUAGE PATHOLOGY ASSISTANT (SLPA)****SLPA 118****Introduction to Speech-Language Pathology Assisting**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Overview of the field of speech-language pathology, professional standards, legal and ethical issues, and scope of responsibilities of the speech-language pathologist and the speech-language pathology assistant in health care and educational settings. CSU

**SLPA 119****Speech-Language and Hearing Development Across the Life Span**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Study of normal speech, hearing, and language development across the life span. Topics will include differentiation of normal from disordered communication and communication development in bilingual populations. CSU/UC

**SLPA 120****Speech-Language Pathology Clinical Management and Procedures**

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

*Prerequisite: SLPA 118 with a minimum grade of C.*

Organizational and functional skills required in the speech-language pathology workplace. Includes interdisciplinary and supervisory relationships, client and public interaction, safety issues, technical writing, data collection, record keeping, and computer applications. CSU

**SLPA 150****Observation of Speech-Language Pathology Clinical Practices**

Unit(s): 0.5 Class Hours: 28.0 Lab total.

*Prerequisite: SLPA 118 with a minimum grade of C AND concurrent enrollment in SLPA 160.*

Beginning clinical observation of practices and procedures required in speech-language pathology. Observation sites will be in both educational and medical settings. CSU

**SLPA 160****Introduction to Communicative Disorders and Treatment**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An overview of communication disorders, including classification, assessment and remediation of speech, language, swallowing, and hearing disorders in children and adults. Role of speech-language pathologist and audiologist in educational and medical settings. CSU/UC

## **SLPA 170**

### **Introduction to Phonetics**

*Formerly: CMST 170, Introduction to Phonetics*

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Study of the articulatory foundations of the description and classification of speech sounds. Introduces the International Phonetic Alphabet (IPA), physiological properties of the speech-producing mechanism, and methods of transcription. Emphasis will be on American English along with comparison to the sound systems of other languages. CSU

## **SLPA 180**

### **Speech-Language Pathology Screening Processes and Intervention Procedures**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite: SLPA 120 and SLPA 150 and SLPA 160 with a minimum grade of C.*

Screening tools, processes, and intervention procedures used for clients with communication disorders. Administration of screening tests and completion of protocols. Equipment utilized in therapeutic treatment. CSU

## **SLPA 190**

### **Speech-Language Pathology Assistant Clinical Fieldwork I**

Unit(s): 2.0 Class Hours: 4.5 Lecture, 108.0 Lab total.

*Prerequisite: SLPA 120 and SLPA 150 and SLPA 160 with a minimum grade of C AND application to Department Coordinator required semester prior to enrollment; current negative TB clearance; current CPR and First Aid Certification; fingerprinting and background check may be required*

Corequisite: SLPA 180.

Beginning application of supervised clinical practice procedures as required of a speech-language pathology assistant in an educational or clinical setting. CSU

## **SLPA 200**

### **Adult and Geriatric Communication Disorders**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

*Prerequisite: SLPA 160 with a minimum grade of C.*

Speech, language, and hearing disorders experienced by the adult and geriatric populations. Assessment tools and treatment strategies used to treat acquired disorders such as adult aphasia, dysarthria, and hearing loss. CSU

## **SLPA 250**

### **Speech-Language Pathology Assistant Clinical Fieldwork II**

Unit(s): 2.0 Class Hours: 4.5 Lecture, 108.0 Lab total.

*Prerequisite: SLPA 180 and SLPA 190 with a minimum grade of C AND application to Department Coordinator required semester prior to enrollment; current negative TB clearance; current CPR and First Aid Certification; fingerprinting and background check may be required.*

Advanced application of clinical practice procedures in a clinical or educational setting by the speech-language pathology assistant under the supervision of a speech-language pathologist. CSU

## **STUDY SKILLS (STDY)**

### **STDY 101**

#### **College Study Skills**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

A course designed to teach effective college study skills while also helping students create positive academic and lifelong learning habits. Topics include time management, exam preparation, lecture notetaking, memorization, test taking strategies, stress management, and exam preparation. CSU

### **STDY 109**

#### **College Learning Skills**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course provides effective success strategies to enhance student self-development, academic, and lifelong learning skills for the college student. The techniques include values, goal-setting, dealing with money, stress management, diversity, motivation, health, and time-management. Students learn personal growth methods and develop strategies to effectively deal with issues to ensure personal, educational, and career success. CSU

## **TV/VIDEO COMMUNICATIONS (TELV)**

### **TELV 009A**

#### **TV/Video Communications Laboratory**

Unit(s): 0.5 Class Hours: 27.0 Lab total.

Corequisite: TELV 110 or TELV 112 or TELV 115A or TELV 115B or TELV 130 or TELV 150 or TELV 152.

Sign-in/out supervised work on beginning television projects/production assigned in a 100 level TV/Video Communications class. Accumulation of 27 hours earns 0.5 unit. Grade: Pass/No Pass Only. Open Entry/Open Exit.

### **TELV 009B**

#### **TV/Video Communications Laboratory**

Unit(s): 0.5 Class Hours: 27.0 Lab total.

*Prerequisite: TELV 009A with a minimum grade of C.*

Corequisite: TELV 110 or TELV 112 or TELV 115A or TELV 115B or TELV 130 or TELV 150 or TELV 152.

Sign-in/out supervised work on intermediate television projects/production assigned in a 100 level TV/Video Communications class. Accumulation of 27 hours earns 0.5 unit. Grade: Pass/No Pass Only. Open Entry/Open Exit.

### **TELV 009C**

#### **TV/Video Communications Laboratory**

Unit(s): 0.5 Class Hours: 27.0 Lab total.

*Prerequisite: TELV 009B with a minimum grade of C.*

Corequisite: TELV 110 or TELV 112 or TELV 115A or TELV 115B or TELV 130 or TELV 150 or TELV 152.

Sign-in/out supervised work on advanced television projects/production assigned in a 100 level TV/Video Communications class. Accumulation of 27 hours earns 0.5 unit. Grade: Pass/No Pass Only. Open Entry/Open Exit.

**TELV 010A****TV/Video Communications Advanced Laboratory I**

Unit(s): 0.5 Class Hours: 27.0 Lab total.

Corequisite: TELV 215 or TELV 230A or TELV 230B or TELV 230C or TELV 230D or TELV 260.

Sign-in/out supervised work on beginning television projects/production assigned in a 200 level TV/Video Communications class. Accumulation of 27 hours earns 0.5 unit. Grade: Pass/No Pass Only. Open Entry/Open Exit.

**TELV 010B****TV/Video Communications Advanced Laboratory II**

Unit(s): 0.5 Class Hours: 54.0 Lecture, 27.0 Lab total.

*Prerequisite: TELV 010A with a minimum grade of C.*

Corequisite: TELV 215 or TELV 230A or TELV 230B or TELV 230C or TELV 230D or TELV 260.

Sign-in/out supervised work on advanced beginning television projects/production assigned in a 200 level TV/Video Communications class. Accumulation of 27 hours earns 0.5 unit. Grade: Pass/No Pass Only. Open Entry/Open Exit.

**TELV 010C****TV/Video Communications Advanced Laboratory III**

Unit(s): 0.5 Class Hours: 27.0 Lab total.

*Prerequisite: TELV 010B with a minimum grade of C.*

Corequisite: TELV 215 or TELV 230A or TELV 230B or TELV 230C or TELV 230D or TELV 260.

Sign-in/out supervised work on intermediate television projects/production assigned in a 200 level TV/Video Communications class. Accumulation of 27 hours earns 0.5 unit. Grade: Pass/No Pass Only. Open Entry/Open Exit.

**TELV 010D****TV/Video Communications Advanced Laboratory IV**

Unit(s): 0.5 Class Hours: 27.0 Lab total.

*Prerequisite: TELV 010C with a minimum grade of C.*

Corequisite: TELV 215 or TELV 230A or TELV 230B or TELV 230C or TELV 230D or TELV 260.

Sign-in/out supervised work on advanced television projects/production assigned in a 200 level TV/Video Communications course. Accumulation of 27 hours earns 0.5 unit. Grade: Pass/No Pass Only. Open Entry/Open Exit.

**TELV 131****Beginning Broadcast News Workshop**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

Group Instruction for beginners in news writing, reporting, interviewing, and on-camera techniques for appearing on a student-produced cable newscast. Basic training also will include in-studio production techniques. CSU

**TELV 132****Intermediate Broadcast News Workshop**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

*Prerequisite: TELV 130 or TELV 131 with a minimum grade of C.*

Group instruction for intermediate level students in the writing and preparation of news, entertainment, and sports segments for a weekly TV newscast. Participation in studio production work and on-camera appearance will also be emphasized. CSU

**TELV 133****Advanced Broadcast News Workshop**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

*Prerequisite: TELV 132 with a minimum grade of C.*

Group instruction for advanced level students in writing and preparation of news, entertainment, and sports segments for a weekly TV newscast. Emphasis placed on advanced reporting, camera, and editing techniques as well as producing and directing the news show. CSU

**TELV 190****Introduction to ProTools**

Unit(s): 1.5 Class Hours: 18.0 Lecture, 27.0 Lab total.

Fundamental features and applications of ProTools audio software used in post-production for television, film and music. Orientation to functions, user interface and actual operation of digital audio workstation. Techniques and aesthetics associated with creation of well-mixed soundtracks are addressed. Hands-on practice with digital recording and editing of soundtracks. (Same as Music 190.) CSU

**TELV 298****TV/Video Communications Practicum/ Internship**

Unit(s): 3.0 Class Hours: 9.0 Lecture, 135.0 Lab total.

Supervised field work in broadcast writing, announcing, journalism, editing or production at professional sites. Skills assessed before placement to match abilities with employer needs. Concurrent enrollment or completion of one TV/Video Communications production class recommended. CSU

**THEATRE ARTS (THEA)****THEA 100 (C-ID THTR 111)****Introduction to Theatre**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to the art and concepts of theatre through a study of modern and historical theories of dramatic structure, playwriting, directing, design, and acting. Attendance at live theatre required. CSU/UC

**THEA 105 (C-ID THTR 113)****Theatre History 1**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

The study of the history of theatre from the origins of theatre through the 17th Century. The history and development of theatre and drama are studied in relationship to cultural, political and social conditions of the time. Plays are read for analysis of structure, plot, character and historical relevance. CSU/UC

**THEA 110 (C-ID THTR 151)****Acting Fundamentals**

Unit(s): 3.0 Class Hours: 54.0 Lecture, 18.0 Lab total.

A study of acting involving the development of acting techniques, styles, and disciplines. Provides theory and practical experience with varied characterizations. Emphasizes individual growth and acquired skills necessary to the acting craft. A combination of THEA 110 and THEA 111 and THEA 113 may be taken a maximum of four enrollments. CSU/UC

### **THEA 111 (C-ID THTR 152)**

#### **Intermediate Acting**

Unit(s): 3.0 Class Hours: 54.0 Lecture, 18.0 Lab total.

*Prerequisite: THEA 110 with a minimum grade of C.*

Further study in the art of acting for the stage, investigating in-depth character study, role portrayal, special problems, and personal technique. Acting skills developed through use of exercises, monologues, and scenes from contemporary theatre. A combination of THEA 110 and THEA 111 and THEA 113 may be taken a maximum of four enrollments. CSU/UC

### **THEA 113**

#### **Acting for the Camera**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Techniques and disciplines of acting as applied to film and television production. Opportunity to practice and perform with emphasis on developing talents and skills required in acting for the screen (Same as DM 142). A combination of THEA 110 and THEA 111 and THEA 113 may be taken a maximum of four enrollments. CSU/UC

### **THEA 114**

#### **Acting for the Camera II**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Recommended Preparation: THEA 113 with a minimum grade of C.

An intermediate and immersive on-camera experience in which the student will have opportunities to practice skills and techniques in several styles of camera production: movie/ TV narrative drama, comedy, and reality TV. The material from these performances is edited, screened, and discussed. CSU/UC

### **THEA 118**

#### **Fundamentals of Scene Study**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

A continued study for the beginning actor in the preparation and presentation of scenes from modern comedies, the plays of William Shakespeare, and plays from influential playwrights such as Anton Chekov and Henrik Ibsen. Students prepare scenes with partners for performance and critique. A combination of THEA 198 and THEA 118 and THEA 110 may be taken a maximum of four enrollments. CSU/UC

### **THEA 120**

#### **Musical Theatre History**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course explores the history of the uniquely American art form that is Musical Theatre. From its early development in the colonial period to the present time. Emphasis will be placed on the chronological examination of various musical theatre productions. Students will learn how the composers, librettists, lyricists, choreographers, directors and designers contributed to the formation and the popularity of musical theatre as it exists today. CSU/UC

### **THEA 123**

#### **Introduction to Drama and Acting**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to acting and dramatic literature that includes analysis of plays, dramatic structure, and performance criticism. This course explores the history and development of acting styles and methodologies specific to the major historical periods of drama in which they were created. Intended to enhance imagination and creativity and emphasize intellectual growth through the exploration of the cultural significance of drama and performance. CSU/UC

### **THEA 130**

#### **Lighting Design**

Unit(s): 2.0 Class Hours: 27.0 Lecture, 27.0 Lab total.

Basic techniques of lighting design for entertainment. Emphasis is placed on the design process, technical and artistic choices, and the development of the practical skills required of an entertainment lighting designer. CSU/UC

### **THEA 131 (C-ID THTR 171)**

#### **Stagecraft**

Unit(s): 3.0 Class Hours: 54.0 Lecture, 18.0 Lab total.

An introduction to technical theatre and the creation of scenic elements. Includes basic concepts of design, painting techniques, set construction, set movement, prop construction, backstage organization, and stage management. CSU/UC

### **THEA 132 (C-ID THTR 175)**

#### **Stage Makeup**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Basic techniques and artistry of stage makeup and its relation to the total production. Covers history, aesthetics and design theory, color theory, materials, and application procedures for varied characterizations. Practical application of learned skills are applied to departmental productions. CSU/UC

### **THEA 133 (C-ID THTR 173)**

#### **Lighting Fundamentals**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Theory and practices of lighting including control systems and instruments as well as the techniques for proper installation, operation, maintenance, and safety. (same as DM 260) CSU/UC

### **THEA 135 (C-ID THTR 192)**

#### **Technical Production**

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Supervised instruction and practical experience in backstage production responsibilities including any of the following: stage management, scenery construction and movement, properties, costume, lighting, sound, and running crews. CSU/UC

### **THEA 136 (C-ID THTR 174)**

#### **Fundamentals of Costume Design**

Unit(s): 3.0 Class Hours: 54.0 Lecture, 18.0 Lab total.

The study of costume history, design, and basic construction techniques as an introduction to basic theatrical costuming. Fabrics and their various uses will be investigated. (Same as FDM 136) CSU/UC

**THEA 137****Costume Design and History**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

Explores the many aspects of costume design, including the breakdown of a script, artistic rendering of the literature, development of themes and design concepts, research sources, examination of the social and economic mores that govern dress, and the history of dress. Students will analyze, research, and design two plays to present to the class. The course will include film and theatre industry standards in the area of costume design. A combination of may be taken a maximum of four enrollments. CSU/UC

**THEA 138****Costume Periods and Styles**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A study of the changes in dress from ancient times to the present. Social and political influences, as well as the historical accuracy of period dress, are considered relative to the practical needs of costuming for stage, film, and television. A combination of may be taken a maximum of four enrollments. CSU/UC

**THEA 140A****Theatre Performance**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

An introduction to theatre performance emphasizing acting technique, theatre vocabulary, and creative individual expression. Students learn the process of presenting a role on stage. Prepares the student for Theatre Performance 140B. CSU/UC

**THEA 140B****Theatre Performance II**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

*Prerequisite: THEA 140A with a minimum grade of C.*

Continued study in theatre performance emphasizing acting technique, theatre vocabulary, and creative individual expression. Students perfect the process of presenting a role on stage. Theatre Arts 140B is a continuation and refinement of the work begun during Theatre Arts 140A. CSU/UC

**THEA 140C****Theatre Performance III**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

*Prerequisite: THEA 140B with a minimum grade of C.*

Provides the continuing theatre performance student opportunity to concentrate on more advanced acting methods and development of technique. Emphasizes the development of the individual actor's performance style connecting the voice and body with the emotional life of a character. CSU/UC

**THEA 140D****Theatre Performance IV**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

*Prerequisite: THEA 140C with a minimum grade of C.*

Continuing study of acting technique including more complicated methodology and advanced script material. Emphasizes the combination of the individual actor's performance style with the demands of the professional theatre arena. CSU/UC

**THEA 150 (C-ID THTR 191, C-ID THTR 192)****Theatre Production**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 70.0 Lab total.

*Prerequisite: Audition/Interview.*

Practical experience in performance production or technical production culminating in a series of public performances. All actors must audition and be cast prior to enrolling. All technicians must obtain instructor approval prior to enrolling. CSU/UC

**THEA 150A (C-ID THTR 191)****Rehearsal and Performance in Production**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 70.0 Lab total.

*Prerequisite: Audition.*

Practical experience in performance production culminating in a series of public performances. All actors must audition and be cast prior to enrolling. A combination of may be taken a maximum of four enrollments. CSU/UC

**THEA 150B (C-ID THTR 192)****Technical Theatre in Production**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 70.0 Lab total.

Students will gain practical experience in the application of production responsibilities in any of the following: stage management, scenery construction, properties, costuming, lighting, or sound. This course culminates into a series of public performances. All student technicians must obtain instructor approval prior to enrolling. CSU/UC

**THEA 151 (C-ID THTR 191)****Showcase I**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

An introduction to theatre performance emphasizing acting technique, theatre vocabulary, and creative individual expression. Students learn the process of presenting a role on stage. Prepares the student for Showcase II. A combination of THEA 151, 171, 172 and 173 may be taken a maximum of four enrollments. CSU/UC

**THEA 152 (C-ID THTR 191)****Tour Ensemble**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

An introduction to theatre performance emphasizing acting techniques as applied to performing a role in multiple venues. CSU/UC

**THEA 153****Introduction to Directing**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

The study and application of directing theory, process, and technique which will culminate in a student-directed project production for public performance. Included are the fundamentals of script analysis, designer collaboration, character development, staging, actor coaching, and presenting. CSU/UC

**THEA 154 (C-ID THTR 191)****Performance Ensemble**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 54.0 Lab total.

A study of the standards and expectations for an actor in auditions, rehearsals, and performances of an ensemble production. Students desiring an acting role must audition. A combination of THEA 154, 161, 162, and 164 may be taken a maximum of four enrollments. CSU/UC



### **THEA 155 (C-ID THTR 191)**

#### **Children's Theatre Ensemble**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 70.0 Lab total.

Intensive rehearsal and performance production experience culminating in the presentation of a live production for young audiences. CSU/UC

### **THEA 156**

#### **Readers' Theatre Workshop**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

A study of acting involving the development of techniques, styles, and theories specific to performing in front of a live audience. Provides the student with extensive practical rehearsal experience with varied characters, leading to workshop production. CSU/UC

### **THEA 161**

#### **Tour Ensemble II**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite: THEA 152 with a minimum grade of C.*

Continued study in theatre performance emphasizing acting techniques as applied to performing a role in a touring company. Students perfect the process of presenting a role in multiple venues. A combination of Theatre Arts 154, 161, 162, and 163 may be taken a maximum of four enrollments. CSU/UC

### **THEA 162**

#### **Tour Ensemble III**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

THEA 161 with a minimum grade of C.

Provides the continuing theatre performance student opportunity to concentrate on more advanced acting methods and development of technique in playscripts for a touring ensemble. Emphasizes the development of the individual actor's performance style connecting the voice and body with the emotional life of a character. A combination of Theatre Arts 154, 161, 162, and 163 may be taken a maximum of four enrollments. CSU/UC

### **THEA 163**

#### **Tour Ensemble IV**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite: THEA 162 with a minimum grade of C.*

Continuing study of acting technique including more complicated methodology and advanced script material focusing on touring ensembles. Emphasizes the combination of the individual actor's performance style with the demands of the professional touring arena. A combination of Theatre Arts 154, 161, 162, and 163 may be taken a maximum of four enrollments. CSU/UC

### **THEA 165**

#### **Introduction to Entertainment Lighting**

Unit(s): 1.5 Class Hours: 27.0 Lecture total.

Recommended Preparation: concurrent enrollment in THEA 165L.

The study of the various entertainment lighting practices. Course will focus on emerging technologies in the entertainment industry and best practices in applications. Basic skills in control, usage, and content preparation. CSU

### **THEA 165L**

#### **Fundamentals of Programming for Intelligent Lighting Lab**

Unit(s): 0.5 Class Hours: 27.0 Lab total.

Recommended Preparation: concurrent enrollment in THEA 165.

Develop the programming skills to complete a show set up, control fixture characteristics, create and record cues, and transfer between programming and show control. Emphasis will be placed on developing speed and accuracy in these basic skills. CSU

### **THEA 166**

#### **Intermediate Programming**

Unit(s): 1.0 Class Hours: 18.0 Lecture total.

Corequisite: THEA 166L.

Further development of the control and programming skills used in the entertainment lighting industry. Multiple control consoles will be introduced. CSU

### **THEA 166L**

#### **Intermediate Programming Lab**

Unit(s): 1.0 Class Hours: 54.0 Lab total.

Corequisite: THEA 166.

Practical application of the terms, concepts, and practices in the control and programming of automated lighting equipment. Emphasis is placed on intermediate and advanced programming techniques/skills while increasing speed and accuracy. CSU

### **THEA 167**

#### **Setup for Intelligent Lighting**

Unit(s): 1.0 Class Hours: 9.0 Lecture, 27.0 Lab total.

Study of the practical considerations for using intelligent lighting equipment. Included topics are safety precautions, setup, and operational procedures, control panel functions, basic service, and maintenance techniques. CSU

### **THEA 168A**

#### **Computer Applications for Entertainment Technology**

Unit(s): 2.5 Class Hours: 36.0 Lecture, 36.0 Lab total.

Study of varied software applications that assist in the creation, management, visualization, and virtualization of entertainment projects. CSU

### **THEA 169**

#### **Cooperative Work Experience- Entertainment**

Unit(s): 1.0-4.0 Class Hours: 60.0-300.0 Lab total.

This work experience course of supervised employment is designed to assist students to acquire desirable work habits, attitudes and skills in a field related to the entertainment industry so as to enable them to become productive employees. This course also provides students with career awareness for jobs. 75 hours of paid work or 60 hours of un- paid work equals one unit of course credit. Student repetition is allowed per Title 5, Section 55253. CSU

### **THEA 170**

#### **Entertainment Technology Internship**

Unit(s): 1.0 Class Hours: 9.0 Lecture, 36 Lab total.

Supervised field work in one or more areas of backstage technologies including lighting, sound, and stagecraft. Skills are assessed before placement to match abilities with job requirements. Grade: Pass/No Pass only. Open Entry/Open Exit. CSU

**THEA 171****Showcase II**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite: THEA 151 with a minimum grade of C.*

Continued study in theatre performance emphasizing acting technique, theatre vocabulary, and creative individual expression. Students perfect the process of presenting a role on stage. A combination of Theatre Arts 151, 171, 172, and 173 may be taken a maximum of four enrollments. CSU/UC

**THEA 172****Showcase III**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite: THEA 171 with a minimum grade of C.*

Provides the continuing theatre performance student opportunity to concentrate on more advanced acting methods and development of technique. Emphasizes the development of the individual actor's performance style connecting the voice and body with the emotional life of a character. A combination of Theatre Arts 151, 171, 172, and 173 may be taken a maximum of four enrollments. CSU/UC

**THEA 173****Showcase IV**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite: THEA 172 with a minimum grade of C.*

Continuing study of acting technique including more complicated methodology and advanced script material. Emphasizes the combination of the individual actor's performance style with the demands of the professional theatre arena. A combination of Theatre Arts 151, 171, 172, and 173 may be taken a maximum of four enrollments. CSU/UC

**THEA 177****Principles of Playwriting**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An introduction to the elements of writing a play for the stage emphasizing dramatic structure, dramatic action, relationship between dialogue and action, setting, theme and point of view. Students will be assigned writing exercises that culminate in a one-act play. A combination of Theatre Arts 177, 178, 179, 180, 181, 186, and 190 may be taken a maximum of four enrollments. CSU

**THEA 178****Musical Theatre Techniques**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

This course explores the development of the beginning fundamentals of acting, singing and movement for musical theatre through exercises, auditions, solo and group performances. A combination of Theatre Arts 177, 178, 179, 180, 181, 186, and 190 may be taken a maximum of four enrollments. CSU/UC

**THEA 179****Musical Theatre Workshop**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite: Audition or consent from instructor.*

Development and exploration of musical theatre skills. Students will become proficient musical theatre artists through theatrical exercises, audition and dance techniques and solo and group performances. A combination of Theatre Arts 177, 178, 179, 180, 181, 186, and 190 may be taken a maximum of four enrollments. CSU/UC

**THEA 180****Intermediate Musical Theatre Techniques**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite: THEA 178 with a minimum grade of C.*

This course explores intermediate level techniques of acting, singing and movement for musical theatre through theatrical exercises, auditions, solo and group performances. A combination of Theatre Arts 177, 178, 179, 180, 181, 186, and 190 may be taken a maximum of four enrollments. CSU/UC

**THEA 181****Intermediate Musical Theatre Workshop**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite: THEA 179 with a minimum grade of C.*

Intermediate level development and exploration of musical theatre skills. Students will become proficient musical theatre artists through theatrical exercises, audition and dance techniques and solo and group performances. A combination of Theatre Arts 177, 178, 179, 180, 181, 186, and 190 may be taken a maximum of four enrollments. CSU/UC

**THEA 186****Voice for the Actor**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

An academic study and practical application of the efficient and effective use of the speaking voice, particularly in meeting the unique demands of acting for the stage. Focus will be placed on exercises designed to identify and correct breathing problems, diction problems, and to create conscious control of speech function. A combination of Theatre Arts 177, 178, 179, 180, 181, 186, and 190 may be taken a maximum of four enrollments. CSU/UC

**THEA 190****Improvisation for Stage and Screen**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

Exploration of the principles and techniques of improvisational acting designed to increase the actor's creativity, problem solving, and performance skills. This course also develops student awareness of the importance of the cooperative dynamics of theatre, television and film. A combination of Theatre Arts 177, 178, 179, 180, 181, 186, and 190 may be taken a maximum of four enrollments. CSU/UC

**THEA 198****Topics**

Unit(s): 0.5 Class Hours: 9.0 Lecture total.

Topics of special interest offered to meet the needs of theatre arts students. CSU

**THEA 250****Advanced Theatre Production**

Unit(s): 2.0 Class Hours: 18.0 Lecture, 72.0 Lab total.

*Prerequisite: THEA 150A with a minimum grade of C.*

Practical experience performing an advanced level role in a series of public performances. CSU/UC

**THEA 255****Motion Picture Performance Production**

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

*Prerequisite: Audition.*

Practical experience in performance production culminating in a fully produced feature film screened to the public. The final movie presentation becomes the basis for developing an actor reel. Students desiring an acting role must audition. CSU/UC

**THEA 256****Intermediate Motion Picture Performance Production**

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

*Prerequisite: THEA 255 with a minimum grade of C.*

Intermediate level practical experience course in production culminating in a fully produced feature film screened to the public. The final movie presentation becomes the basis for developing an actor reel. Students desiring an acting role must audition. CSU/UC

**THEA 257****Motion Picture Performance Production III**

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

*Prerequisite: THEA 256 with a minimum grade of C.*

Provides the continuing performance student opportunity to concentrate on more advanced acting methods and development of technique. Emphasizes the development of the individual actor's performance style connecting the emotional life of a character to technical delivery on-screen. CSU/UC

**THEA 258****Motion Picture Performance Production IV**

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

*Prerequisite: THEA 257 with a minimum grade of C.*

Continuing study of on-camera acting technique including more complicated methodology and advanced script material. Emphasizes the combination of the individual actor's performance style with the demands of working on a professional set. CSU/UC

**VIETNAMESE (VIET)****VIET 101****Elementary Vietnamese I**

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

A college level Vietnamese class focusing on pronunciation and grammar, basic vocabulary, common idioms, listening, speaking, reading, and writing techniques to provide avenues for the expression of ideas orally and in writing. Introduction to Vietnamese culture. Some sections designated for native Vietnamese speakers. Vietnamese 101 is equivalent to two years of high school Vietnamese. CSU/UC

**VIET 102****Elementary Vietnamese II**

Unit(s): 5.0 Class Hours: 90.0 Lecture total.

*Prerequisite: VIET 101 with a minimum grade of C.*

A college level Vietnamese course focusing on further training in pronunciation and grammar, more extensive vocabulary development, conversation, and composition. Supplementary cultural readings. Vietnamese 102 is equivalent to the third year of high school Vietnamese. CSU/UC

**WELDING (WELD)****WELD 101****Introduction to Welding**

*Formerly: Weld 108, Oxyacetylene-Arc Welding*

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

This is a basic course designed to introduce students to shop safety, the proper use of tools and basic equipment, and basic fundamentals through the introduction of various welding processes currently used in the welding and metal fabrication industry. Processes will include Oxy-fuel cutting, Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Flux Cored Arc Welding (FCAW), and Gas Tungsten Arc Welding (GTAW). CSU

**WELD 111****Welding Lab Skills**

Unit(s): 2.0 Class Hours: 108.0 Lab total.

*Prerequisite: WELD 240 with a minimum grade of C.*

This class is designed for students to enhance their welding skills. Students will be able to practice open root welding, along with preparation for welding practical exams. This lab will focus on material preparation and welding techniques. Students will receive two units for 108 hours of participation. CSU

**WELD 125****Intermediate Electric Arc Welding**

*Formerly: Weld 125A, Intermediate Arc Welding Level I*

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Recommended Preparation: WELD 101 with a minimum grade of C.

This is an intermediate course designed for students who want to progress in their welding skills through the application of Shielded Metal Arc Welding (SMAW), Flux Cored Arc Welding (FCAW), Gas Metal Arc Welding (GMAW), Gas Tungsten Arc Welding (GTAW), and Oxy-fuel Cutting. The course will emphasize proficiency in welding in the flat, horizontal, and vertical positions. Continuing emphasis on safety, theory, and practical skill development. CSU

**WELD 139A****Inert Gas Welding Level I**

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

*Prerequisite: WELD 108 with a minimum grade of C.*

This course will introduce the student to gas tungsten arc welding (GTAW) and metal inert gas welding (MIG) of aluminum, mild steel and stainless steel. CSU

**WELD 153****Math/Blueprint Reading for Welders**

*Formerly: WELD 153B, Math/Blueprint Reading for Welders*

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course focuses on math used in welding and blueprint reading. Emphasis will be placed on welding blueprint symbols along with industry mathematics. The student will be able to read and interpret shop, field drawings, and blueprints related to the welding industry. CSU

**WELD 153A****Math/Blue Print Reading for Welders**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This class is designed to introduce the welding student to math and blue print reading and their applications for welders related to the welding industry. Emphasis will be placed on the practical problems in mathematic (for welders) measuring, instruments, area, volume, fractions, decimals and metric system. This course will allow the student to read and interpret shop and field drawings and prints related to the welding industry. CSU

**WELD 155****Metal Fabrication**

Formerly: Weld 155A, Beginning Metal Fabrication

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Recommended Preparation: WELD 153 and WELD 240 with a minimum grade of C.

This course is designed for students with prior welding experience. The course will provide students with a general understanding of the fundamental methods of welding fabrication used in industry. Students will become familiar with standard mill shapes and materials, jigs and fixtures, methods of layout and fitting, preparation and qualification of welding procedures and welding sequence, cost analysis, and cutting and fastening techniques. This course is strongly recommended for those entering the fields of metal fabrication, quality assurance, inspection, supervision, and engineering of welded products. CSU

**WELD 156A****Beginning Robotic Welding**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite: WELD 108 with a minimum grade of C.*

Corequisite: WELD 157A or MNFG 157A

The course is a basic programming course that teaches students how to safely manipulate the robot through proper use of the robotic controller and Teach Pendant. This course also introduces the student to the gas metal and flux cored arc welding process. Emphasis is placed on safe operating practices, handling and storage of compressed gases, process principles, component identification, various welding techniques, and base and filler metal identification. This course is an introduction to the beginning robotic/laser technology. (Same as MNFG 156A). CSU

**WELD 156B****Intermediate Robotic Welding**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite: WELD 156A or MNFG 156A and WELD 157A or MNFG 157A with a minimum grade of C.*

Corequisite: WELD 157B or MNFG 157B

The robotic welding course teaches students how to safely manipulate the robot through proper use of the robotic controller and Teach Pendant. Emphasis is placed on safe operating practices, handling and storage of compressed gasses, process principles, component identification and welding procedures. Students will be able to input welding procedures, jog frames, circular moves, weaving, copy-delete-commands, six point tool center and other activities related to the robotic welding process. (Same as MNFG 156B). CSU

**WELD 156C****Advanced Robotic Welding**

Unit(s): 3.0 Class Hours: 36.0 Lecture, 54.0 Lab total.

*Prerequisite: WELD 156B or MNFG 156B with a minimum grade of C.*

Corequisite: WELD 157C or MNFG 157C

The Advanced Robotic Welding course teaches students how to safely manipulate the robot through proper use of the robot controller and Teach Pendant. Emphasis is placed on safe operating practices, handling and storage of compressed gasses, process principles, component identification and welding procedures. Students will be able to create programs in robotic welding safety, TPP Management, USER Frames, coordinated motion, TAST, TAST-RPM, position registers & offsets, touch & sensing and activities relating to the robotic welding process. (Same as MNFG 156C) CSU

**WELD 157A****Basic Robotic Programming**

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

*Prerequisite: WELD 108 with a minimum grade of C.*

Corequisite: WELD 156A or MNFG 156A

This is a basic programming course that teaches students how to safely manipulate an industrial robot through proper use of a controller. Topics include safe operating practices, linear movements, coordinate systems, Teach Pendant programming, and software/hardware integration. (Same as MNFG 157A) CSU

**WELD 157B****Intermediate Robotic Programming**

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

*Prerequisite: WELD 156A or MNFG 156A and WELD 157A or MNFG 157A with a minimum grade of C.*

Corequisite: WELD 156B or MNFG 156B

This course is a programming course that teaches students how to safely manipulate an industrial robot through proper use of a controller. Topics include safe operating practices, circular movements, robot set-up, advanced Teach Pendant programming and functions, and auxiliary hardware. (Same as MNFG 157B) CSU

**WELD 157C****Advanced Robotic Programming Welding**

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

*Prerequisite: WELD 156B or MNFG 156B and WELD 157B or MNFG 157B with a minimum grade of C.*

Corequisite: WELD 156C or MNFG 156C

This is an advanced programming course that teaches students how to safely manipulate an industrial robot through proper use of a controller. Topics include safe operating practices, logic commands, and coordinate systems, advanced Teach Pendant programming, network integration, simulations, and software/hardware integration. (Same as MNFG 157C) CSU

**WELD 160****Introduction to Process Validation and Verification of Laser Welding Process: Level 1**

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

This course is designed to introduce students to laser welding validation and the development of manufacturing capabilities using fiber laser welding equipment. CSU

**WELD 161****Planning Process Validation and Verification of Laser Welding Process: Level 2**

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

*Prerequisite: WELD 160 with a minimum grade of C.*

This course is designed to introduce students to laser welding process focused on three main activities: Installation Qualification Plan (IQ), Operational Qualification Plan (OQ), and Performance Qualification Plan (PQ) per the MVP. CSU

**WELD 162****Executing Process Validation and Verification of Laser Welding Process: Level 3**

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

*Prerequisite: WELD 161 with a minimum grade of C.*

This course is designed to perform validation activities with laser welding processes focused on three main activities: Installation Qualification Report (IQ), Operational Qualification Report (OQ), and Performance Qualification Report (PQ) per the MVP. CSU

**WELD 177****Welding Metallurgy**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

This course is designed to introduce students to the field of metallurgy and familiarize the student with production, use, and testing of metals and other materials. This course reviews the relationships between the properties of metals/alloys as well as other materials and how they relate to design and manufacturing industries. CSU

**WELD 181****Pipe Welding Fundamentals**

*Formerly: Weld 154A, Beginning Pipe Fundamentals*

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Recommended Preparation: WELD 101 with a minimum grade of C

This course is an introduction class to pipe welding with the Shielded Metal Arc Welding (SMAW) process. Students will focus on safety, theory, preparation, and welding. Emphasis will be placed on welding in the flat (1G) and horizontal (2G) positions using various size pipe with E6010 and E7018 electrodes. CSU

**WELD 182****Intermediate Pipe Welding**

*Formerly: Weld 154B, Intermediate Pipe Welding*

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Recommended Preparation: WELD 181 with a minimum grade of C.

This course is an intermediate class in pipe welding. Students will focus on safety, theory, pipe preparation, and welding. Emphasis will be placed on welding in the fixed horizontal (5G) and fixed 45 degree (6G) positions on various size pipe, using the Shielded Metal Arc Welding (SMAW) process with E6010 and E7018 electrodes. CSU

**WELD 198****Welding 198 Topics**

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

*Prerequisite: Varies according to topic.*

Specialized courses on topics in welding technology. Not offered every year. CSU

**WELD 225****Advanced Electric Arc Welding**

*Formerly: WELD 129A, Advanced Arc Welding Level I*

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Recommended Preparation: WELD 240 with a minimum grade of C.

This is an advanced course designed to improve and master the student's previously acquired welding skills in Shielded Metal Arc Welding (SMAW), Flux Cored Arc Welding (FCAW), Gas Metal Arc Welding (GMAW), Gas Tungsten Arc Welding (GTAW), and Oxy-fuel Cutting. The course will emphasize proficiency of welding in the vertical and overhead positions with continued emphasis on safety, theory, and practical skill development. CSU

**WELD 232****Advanced Gas Tungsten Arc Welding**

*Formerly: Weld 139C, Inert Gas Welding Level III*

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Recommended Preparation: WELD 240 with a minimum grade of C.

This is an advanced welding course using the Gas Tungsten Arc Welding (GTAW) process. This course is intended to challenge the students with welding out of position on various alloys. The students will weld in the horizontal (2F/G), vertical (3F/G), and overhead (4F/G) welding positions on plate and pipe. This class is designed to prepare students for the certification tests in structural, pipe, and aerospace industries. CSU

**WELD 240****Structural Welding SMAW/FCAW**

*Formerly: WELD 140A, Welding Certification Training Level I*

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Recommended Preparation: WELD 225 with a minimum grade of C.

This is an advanced course designed to provide students with specialized instruction in preparation for the Los Angeles Department of Building and Safety (LADBS) welder performance examination and/or the welder performance examination in accordance with the American Welding Society (AWS) D1.1 Structural Steel Code. Simulated examination plates will be issued to students, who will have to complete them in vertical (3G) and overhead (4G) positions, in order to evaluate their progress. Upon completion of the class, students should be prepared to schedule, take, and pass the welder performance examination for structural steel welding (AWS: D1.1). CSU

**WELD 244****Welding Certification D1.1 Code Clinic**

*Formerly: Weld 141A, Welding Certification Exam Preparation Level I*

Unit(s): 2.0 Class Hours: 36.0 Lecture total.

This course is designed for welding students looking to achieve their certification in the written portion of the American Welding Society (AWS) D1.1 Structural Steel code book. Emphasis will be focused on understanding and navigating the D1.1 Structural Steel code book. Students will cover prequalified/qualified design, prequalified base/filler material, procedure/welder qualifications, fabrication essentials, and testing as specified by AWS D1.1 Structural Code specifications leading to Los Angeles City or AWS welding certifications. CSU

**WELD 282****Advanced Pipe Welding**

*Formerly: Weld 154C, Advanced Pipe Welding*

Unit(s): 3.0 Class Hours: 18.0 Lecture, 108.0 Lab total.

Recommended Preparation: WELD 182 with a minimum grade of C.

This advanced course prepares students to pass their inclined (6G) certification test. Students will use AWS and American Petroleum Institute (API) standard 1104 procedures.

Emphasis will be on open root groove welds on pipe using the Shielded Metal Arc Welding (SMAW). Students will use E6010 and E7018 electrodes along with Gas Tungsten Arc Welding (GTAW). CSU

**WOMEN'S STUDIES (WMNS)****WMNS 101****Introduction to Women's Studies**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

A multicultural survey of social trends, issues, opportunities, and topics of special interest to women. Discussion includes sex, sex role stereotyping, family problems, work, law, gender equity, physical and mental health, feminism, rape, and women in arts, sciences, history, and business. CSU/UC

**WMNS 102****Women in America: Work, Family, Self**

Unit(s): 3.0 Class Hours: 54.0 Lecture total.

An examination of women's roles in America. Emphasis on employment, family structures, and personal development. Topics include: historical patterns, socialization, opportunities, sexism, identity, growth, law, unionization, sexual harassment, media influence, family pressures, child care, guilt, stress. CSU/UC



# SANTA ANA COLLEGE

## School of Continuing Education

Santa Ana College School of Continuing Education Office  
Centennial Education Center  
2900 West Edinger Avenue, Santa Ana, CA 92704  
714-241-5700

### **Santa Ana College School of Continuing Education Mission Statement**

The Santa Ana College School of Continuing Education is a responsive community leader dedicated to adult student success through innovative educational programs and services. The School of Continuing Education prepares students to transition to college, improve language and workforce skills, increase civic involvement, and promote lifelong learning.

The Centennial Education Center (CEC) office is located at the corner of Fairview and Edinger, Santa Ana, near convenient bus stops. Office Hours: Monday through Thursday, 8:00 am–8:45 pm, Friday, 8:00 am–12:45 pm, Saturday, 8:00 am–11:45 am.

The Centennial Child Development Center provides services to Santa Ana College School of Continuing Education students' children between the ages of 2 and 5 based on space availability. Fees are based on a sliding scale and children need to be enrolled on a regular basis.

Centennial Education Center offers a wide range of classes. Because classes are offered on an open entry/open exit basis, students may register at any time throughout the year.

Student Outreach provides admissions information, ensures access to and knowledge of campus resources, and actively promotes student services offered.

English as a Second Language (ESL) classes at CEC provide a vital service to students who have come to the United States from all over the world. Classes cover a wide range of instruction in beginning to advanced English, pronunciation, citizenship, conversation, writing, English for work, and college preparation. Students develop survival skills, learn about customs, and American culture, as well as, acquire language skills necessary for school, employment and success in their daily lives.

The English Language Lab provides opportunities for adult learners to use language learning computer software to practice English. Civics instruction is provided to enhance awareness of learners' community. One-on-one, small-group, and technology-based instruction are offered based on individual needs. Instructors help learners create individual learning plans and set educational goals.

Instructors in the Pronunciation Center help students build their fluency in pronunciation through a variety methods to include role play, pair and group work, and presentations. Students will learn about sound patterns and sound inventory, stress, intonation, and others. Materials are provided in class.

The Adult Basic Education Program (ABE) is designed to assist students in strengthening their skills in reading, writing, mathematics, English usage and grammar. Fifteen (15) elective credits may be

earned by students who pass the three exit exams. Once the ABE classes have been successfully completed and a certificate awarded, the student is eligible to enter the Adult High School Subjects Diploma program (ASE) GED preparation or college credit courses. The ABE program is also appropriate for students who want to become more employable.

The Adult High School Diploma Program is designed to accommodate adults with varied responsibilities, backgrounds, and needs who want to earn a high school diploma. Individualized instruction is provided so that students may take classes that fit their personal schedules, thus enabling them to work and complete credits at their own pace. Courses offered include: English fundamentals, reading and vocabulary skills, mathematics, science, United States history, and American government. Classes in GED preparation, including practice testing, are also offered in English and Spanish at CEC and REC. Weekend classes are offered at CEC for students who can only attend one day a week. Upon completing their GED studies, students register online at [www.ged.com](http://www.ged.com) to take their exam(s). The nearest testing site is:

Corporate Training Institute  
Rancho Santiago Community College District  
2323 N. Broadway, Suite 315  
Santa Ana, CA 92706

School of Continuing Education DSPTS seeks to meet the needs of adults with disabilities. Accommodations and support services are provided, after students complete a DSPTS application, present verification of a disability and complete an intake appointment.

The Vocational Training Programs are designed to prepare students with the necessary skills needed to succeed in today's competitive workforce. Training focuses on various skills leading to the attainment of certificates in general office, executive assistant, computer repairs, childcare licensing, nursing aides, orderlies, attendants, and customer service. Students engage in teacher- facilitated instruction as well as independent laboratory instruction where they can learn at their own pace.

## Santa Ana College School of Continuing Education INSTRUCTIONAL CALENDAR 2020-2021

### FALL SEMESTER 2020

August 17-21	Faculty Projects
August 24	INSTRUCTION BEGINS
September 7	Labor Day – Holiday
November 11	Veterans Day – Holiday
November 23-28	Thanksgiving – Holiday
December 19	INSTRUCTION ENDS
December 21-January 8	Holiday Break

### SPRING SEMESTER 2021

January 8, 11, 12	Faculty Projects
January 13	INSTRUCTION BEGINS
January 18	Martin Luther King’s Birthday – Holiday
February 12	Lincoln’s Birthday – Holiday
February 15	President’s Day – Holiday
March 31	Cesar Chavez Day (Observed)
April 5 – 10	Spring Recess
May 28	INSTRUCTION ENDS
May 28	High School Commencement
May 31	Memorial Day – Holiday

### SUMMER SESSION 2021

June 1	INSTRUCTION BEGINS
July 5	Independence Day – Holiday
August 7	INSTRUCTION ENDS

AUGUST 2020						
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SEPTEMBER 2020						
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OCTOBER 2020						
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NOVEMBER 2020						
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DECEMBER 2020						
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JANUARY 2021						
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FEBRUARY 2021						
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MARCH 2021						
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MAY 2021						
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JUNE 2021						
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JULY 2021						
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AUGUST 2021						
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## **GOALS**

Recognizing that learning is a lifelong process, the School of Continuing Education offers a variety of courses and programs to meet basic educational goals of adult learners. Programs and services offered by the School of Continuing Education are designed to help adults meet and carry out their immediate social, civic, and economic responsibilities. Continuing Education promotes lifelong learning as a vehicle to earn a high school diploma or GED, improve English skills, prepare for higher education, prepare for citizenship, learn new job skills, and become productive, active participants in American society.

## **COUNSELING**

1. Provides counseling and guidance services to students.
2. Provides educational assessment services.
3. Provides orientation to a variety of programs and services.
4. Offers career vocational guidance.
5. Offers referrals to community agencies.
6. Provides personal counseling.

## **PROGRAM OBJECTIVES**

### **Adult Basic Education**

Teaches the basic academic and life skills necessary for success in today's world.

1. Provides students with a strong educational foundation that can be used as a basis for employment preparation, entrance into high school subjects, GED preparation, and college and vocational programs.

### **Adult High School Diploma Program**

Enables students to obtain a high school diploma.

1. Provides coursework that enables students to meet proficiency requirements.
2. Encourages high school students to pursue higher education goals.

### **GED Test Preparation**

Assists students in preparing for the GED examination.

### **Child Care Licensing Program**

1. Provides child care licensing programs so students can obtain employment or open their own child care home business.

### **Citizenship Preparation**

1. Prepares students for the United States citizenship interview and examination process.
2. Teaches students about the rights and benefits of becoming U.S. citizens.

### **Developmentally Disabled Adults**

1. Provides opportunities for the realization of individual potentials in the areas of education, work, and social interaction.

## **English as a Second Language**

1. Develops competency in the English language for non-native speakers at school, work, home, and in the community.
2. Improves fluency levels for success in vocational, high school, and college credit programs.
3. Develops an understanding of American culture, values, and civic responsibility.
4. Provides students with a strong academic foundation and improves language skills that can be used as a basis for lifelong learning and continuation into adult basic education, high school subjects, GED preparation, college credit and/or vocational programs. Ultimately, these skills should assist students in obtaining better employment opportunities.

## **Older Adult Program**

1. Provides activities that enhance music appreciation, vocal, and instrumental skills through creative expression.
2. Offers information on basic nutrition, consumer awareness, and current cooking techniques.
3. Presents various topics for discussion and activities based on the student's individual interests, backgrounds, and mental abilities.
4. Provides a variety of art media and techniques that improve motor skills.
5. Teaches movement exercises designed to improve flexibility, strength, endurance, cardiovascular, and respiratory functions. Emphasis is on motor skills, coordination, balance training, joint protection, and relaxation techniques.

## **Parent Education**

Provides a variety of learning opportunities and instruction for prospective parents regarding the intellectual, physical, and emotional components of the birth process.

1. Provides theory, methods, and practical applications for rearing children.
2. Encourages parents to acquire additional child guidance and decision-making skills that are congruent with their values, children's developmental and educational needs, and society's demands.

## **Career Education**

1. Provides short-term vocational training for entry-level positions.
2. Provides courses that are updated through input from business industry advisory councils and the mandates of occupational licensing agencies.
3. Provides vocational assessment, technology, training, and employability skills to prepare job seekers for the workforce.

## INSTRUCTIONAL PROGRAMS

Traditional, individualized and self-paced classroom instruction is offered in academic, vocational, and basic skills areas. Many classrooms at the larger sites utilize state of the art technology in instruction. Open Entry/Open Exit format allows flexibility in planning. Day and evening classes are offered throughout the community, and some classes are offered only on Fridays and Saturdays.

### Adult Basic Education

Provides adult learners the opportunity to build a strong foundation in reading, writing, language, English usage, grammar, mathematics, and communication skills, and to develop practical skills in the areas of technology training and employment preparation.

### Adult Secondary Education

#### Adult High School Diploma Program

- Provides all courses necessary to obtain a high school diploma through both traditional and individualized instruction methods.

#### GED Preparation

- Prepares adults to pass the GED high school equivalency exam.

### Career Education

Provides a blend of technical, academic, and conceptual training to prepare students for direct entry into the workforce and advancement toward a higher level training. Students learn workforce preparation and technical skills in an independent laboratory, lecture classroom, or a combination of both these settings.

### English as a Second Language

Instruction in English from beginning to advanced levels is offered at various locations throughout the district for non-English and limited English speaking adults. ESL Support classes in pronunciation, conversation, English for work, ESL Civics/Citizenship, and writing are also offered.

- **ESL CIVICS/CITIZENSHIP**

Provides basic knowledge of local, state, and federal government in preparation for the United States citizenship examination including language development within the context of history and government.

- **ENGLISH LANGUAGE LAB**

Provides opportunities for adult learners to use language-learning computer software to practice English. Civics instruction is provided to enhance awareness of learners' community. One-on-one, small-group, and technology-based instruction are offered based on individual needs. Instructors help learners create individual learning plans and set educational goals.

### Health and Safety Education

Consists of courses specifically designed to offer lifelong education to promote the health, safety and well-being of individuals, families and communities.

### Older Adult Program

Consists of courses specifically designed to offer lifelong education that provides opportunities for personal growth and development, community involvement, skills for mental and physical well-being, and economic self-sufficiency.

### Parent Education Program

Prepares students for their important role as a key factor in child health, development and success, from the prenatal stage through college preparation. Parent education courses emphasize intellectual, physical, and emotional aspects of parenting.

### Students with Substantial Disabilities

Provides courses to assist developmentally disabled adults with basic academic skills and independent living skills.

## STUDENT SERVICES

### Counseling, Career Planning and Guidance

Provides career, academic, personal and vocational counseling to students in the School of Continuing Education. Counselors provide students with

- educational planning
- interpretation of assessments
- orientation to programs and services.

### Career and Employment Center

In collaboration with the Santa Ana Work Center, provides resources which include career planning and assessment plus job search and resume writing workshops.

### Child Development

Provides child development programs so students can pursue their education.

### Disabled Student Programs and Services

Provides services and accommodations for students with disabilities who apply for service.

### Project Rise

Provides guidance and support to help students formerly incarcerated or justice impacted with their transition back into the community. Special focus and attention is directed to job training, education, community resources and support networks.

### Student Development Program

Provides activities for students which include student government experience, leadership training, conferences, and various student opportunities to improve their leadership skills.

### Summer Sessions

Both day and evening classes are offered in the summer at various locations.

### Assessment

To meet the requirements of the Workforce Opportunity and Innovation Act (WIOA) grant, the Comprehensive Adult Student Assessment System (CASAS) standardized test is administered to all students in the following programs: Adult Basic Education; English as a Second Language (including Citizenship classes); and High School Diploma. CASAS is administered to measure student learning gains using a pre- and posttest method.

### Veterans Service

Counseling and guidance for veterans is provided at SAC campus.

### Veterans Resource Center

714-564-6050

Monday, Tuesday, Wednesday	8 a.m. – 6 p.m.
Thursday	8 a.m. – 7 p.m.
Friday	9 a.m. – 12 p.m.

## ADMISSIONS AND FEES

### Who May Attend

Students who have graduated from high school or are over 18 years of age are eligible to enroll in continuing education classes. Students under 18 years of age who have not graduated from high school may be admitted by special approval of their high school district of attendance and approval of a continuing education administrator.

### Where to Register

For the convenience of the student, registration for continuing education classes may be completed at the following locations:

#### Santa Ana Area

##### Santa Ana College School of Continuing Education

###### Centennial Education Center

2900 West Edinger Avenue, Room A-101, Santa Ana, CA 92704  
714-241-5700

###### Santa Ana College

1530 West 17th Street, Room B-8, Santa Ana, CA 92706  
714-564-6173

###### Remington Education Center

1325 E. 4th Street, Santa Ana, CA 92701  
714-241-5850

### Online application

Students can apply online at: [sac.edu/sce/student-services/registration/Pages/Apply-Now.aspx](http://sac.edu/sce/student-services/registration/Pages/Apply-Now.aspx)

### Parking Fee

Students enrolling in classes that meet at Santa Ana College's main campus are expected to pay a parking fee for campus parking or park in one of the designated coin operated lots located on the south side of the campus. While the parking fee is payable at the Student Business Office on the college campuses, it is much quicker for student to purchase their parking permits through the new online parking permit system. When permits are purchased online, a temporary permit will be emailed to you for immediate use. There are links to this site at enrollment and on the college websites. The parking regulations for campus can be found on the Safety and Security web site at this link: [sac.edu/StudentServices/Security/Pages/Parking-Information.aspx](http://sac.edu/StudentServices/Security/Pages/Parking-Information.aspx). There is important information regarding safely parking on campus on these pages, please take time to take a look.

No parking fee is required at Centennial Education Center or at other continuing education sites in the district.

### Textbooks and Supplies

Textbooks for continuing education classes are available at:

#### Santa Ana College School of Continuing Education Bookstore – Centennial Education Center

2900 West Edinger Avenue  
Santa Ana, CA 92704

#### Bookstore Hours are:

Monday, Tuesday, Wednesday	9 a.m. – 7 p.m.
Thursday	9 a.m. – 6 p.m.
Friday and Saturday	Closed

## Schedule of Classes

A schedule of classes prepared each semester includes general information, courses offered, hours, rooms, and instructor names. Schedules are available before registration each semester in each of the major continuing education sites and Rancho Santiago Community College District campuses. Registration is ongoing for those classes which have been designated open entry/open exit.

### Open Enrollment

Unless specifically exempted by statute, every course wherever offered and maintained by the district is fully open to enrollment and participation by any person who has qualified as a continuing education student and meets the approved prerequisites for that course.

### Student Identification Card

Each student may obtain a picture student identification card upon request. This card must be presented when using the Santa Ana College library and entitles the student to a reduced admission fee to college functions. Student identification cards may be obtained at:

Santa Ana College,  
1530 W. 17th Street, Santa Ana, CA 92706,  
714-564-6965

Centennial Education Center,  
2900 W. Edinger, Santa Ana, CA 92704

Remington Education Center,  
1325 E. 4th Street, Santa Ana, CA 92701

### Class Discontinuance Policy

Any class which does not have a total of at least 20 students enrolled by the beginning of instruction may be discontinued. Any class which does not maintain satisfactory attendance may be discontinued.

## ADULT HIGH SCHOOL DIPLOMA PROGRAM

### General Information

Learning should be a lifelong process if an individual is to have a full and rewarding life. Often, not having a high school diploma becomes a stumbling block for adults who would like to continue their education. Completing the high school diploma allows the individual to achieve greater goals. Educators in the School of Continuing Education know how difficult it is to return to education when the demands of employment, family and daily living take so much energy and time. With the busy adult in mind, the adult high school diploma program is designed to be flexible enough to fit the schedule of each individual. Rancho Santiago Community College District offers a comprehensive high school diploma program for adults who wish to continue their formal education.

Santa Ana College has maintained a High School Program since 1973. In 2009, the California Code of Regulations adopted minimum coursework and standards required by community colleges to award high school diplomas. Santa Ana College requested and received approval of its application for the new Adult High School Diploma Program in the summer of 2009 from the California Community College's Chancellor's Office.

Diplomas are issued by the Rancho Santiago Community College District to students who complete the required course of study and demonstrate proficiency in basic skills. Graduation ceremonies are traditionally held each May or June for several hundred adults of all ages. Students may complete the diploma program at any time during the year and receive verification of completion of requirements at that time. Courses designed to meet high school graduation requirements are offered in both the traditional classroom setting or in open entry/open exit individualized learning programs. Elective credits can be earned in continuing education classes offered in a wide variety of locations throughout the community as listed in the schedule of classes published each semester.

### Counseling and Guidance

Counselors meet with students and design programs of study on an individual basis so that students desiring a high school diploma can achieve their individual educational goals. For students transferring from other high school or adult programs, counselors send for and evaluate previous transcripts to determine which courses meet the general education requirements and/or elective requirements. Counselors advise students of lifelong learning opportunities and assist students with postsecondary vocational and educational planning for degree or certificate programs at Santa Ana College School of Continuing Education.

These services are offered by a staff of professional counselors who are well informed as to the community resources available for students needing academic, vocational, personal, or financial assistance.

### Registration

The Adult High School Diploma Program is available at Centennial Education Center and Santa Ana College. Students may obtain a schedule of classes and enroll at any time during the fall, spring, and summer semesters.

### High School Graduation Requirements

To qualify for a high school diploma, the candidate must meet the following requirements:

### Course of Study

The high school diploma requires a total of 160 credits taken from the following:

SUBJECT AREA	CREDITS
English Communication (a maximum of 10 credits of reading; must include at least one composition course)	40.0
Mathematics	20.0
Natural Sciences (must include both a biological and a physical science course)	20.0
Social and Behavioral Sciences (must include U.S. History, World Geography, World History, American Government, Economics and a Social Science elective)	30.0
Humanities	10.0
Electives	40.0
<b>TOTAL</b>	<b>160.0</b>

There may be additional requirements due to Title 5 changes for the 2020-2021 school year.

### Petitions

A petition for graduation must be completed and submitted prior to the date students expect to complete diploma requirements.

### Proficiency Requirements

Proficiency must be demonstrated in basic skills areas of reading, mathematics, and composition, according to the categories listed below:

- READING.** All Rancho Santiago Community College District adult high school graduates will be required to demonstrate an eighth grade reading ability as measured by an approved district test or by passing the Reading Proficiency Development course final
- MATHEMATICS.** Students will be required to pass an approved district mathematics examination, or the Algebra 1A course finals.
- ENGLISH COMPOSITION.** Students will be required to pass an approved district composition test or the Composition II course final.

### Residency Requirement

To qualify for a high school diploma, a student must complete at least 20 coursework credits within the Rancho Santiago Community College District.

There are multiple sources of credit leading to the high school diploma. Sources are as follows:

- Previous secondary schools
- Trade or business schools
- Armed Forces schools and/or programs
- College credit courses
- Correspondence courses
- Adult school credit courses
- Work experience credit
- Consumer Skills Task Credit
- Testing
- Regional Occupational Program courses
- Other approved sources of credit

## Policies Governing Sources of Credit

### A. Previous Secondary Schools

All credits earned in the 9th, 10th, 11th, and 12th grades recorded on an official transcript will be accepted except physical education credits and credits which are a duplication of course work for which credit was previously granted.

### B. Trade or Business Schools

Courses taken in trade or business schools will be evaluated for possible high school credit equivalency. Courses in this category must be approved by the Office of Private Postsecondary Education.

It is the responsibility of the student to provide to the district transcripts, certificates, and/or other records requested for the evaluation and possible awarding of credit.

### C. Armed Forces Schools and/or Programs

Credit may be granted for completion of training programs (armed services) and other valid educational experiences provided they have been certified by the United States Armed Forces Institute or by a statement on the service record, and provided they parallel 1) courses usually taught in secondary schools, and 2) vocational training courses with counterparts in civilian life.

The recommendations for credit for such programs and experiences are contained in three volumes published by the American Council on Education: The 1978 edition of the **GUIDE TO THE EVALUATION OF EDUCATIONAL EXPERIENCES IN THE ARMED SERVICES**, Vol. I-Air Force; Vol. II.-Army; Vol. III-Coast Guard, Marine, and Navy.

This section is to be interpreted as including:

Officer and enlisted service school courses;

1. Off-duty classes offered by the armed forces and cooperating local institutions;
2. Correspondence courses offered by the United States Armed Forces Institute, the Marine Corps Institute, the Coast Guard Institute, and cooperating colleges and universities;
3. United States Armed Forces Institute courses and subject examinations. (Authorization for this procedure is contained in Title V, Section 99, part C, of the California Administrative Code.)

### D. College Credit Courses

College units to be used for high school credits may be evaluated in a ratio of 3 college units to 10 high school semester periods of credit. The college should be notified in writing when college credits are utilized to meet high school requirements.

College credit equivalency recommended by the American Council on Education guides will be evaluated for high school credit on the same basis as other college credit courses.

### E. Correspondence Courses

Courses taken by correspondence will be evaluated for possible high school credit equivalency. Courses in this category must be approved by the Office of Private Postsecondary Education.

It is the responsibility of the student to provide to the district transcripts, certificates, and/or other records requested for the evaluation and possible awarding of credit.

### F. Adult School Credit Courses

Courses taken at adult schools will be evaluated for possible high school credit equivalency. Courses in this category must be approved by the California State Department of Education.

No credit will be allowed for physical education courses nor for courses from other adult schools if such courses are designated in the Rancho Santiago Community College District as "no high school credit."

It is the responsibility of the student to provide to the district transcripts, certificates, and/or other records requested for the evaluation and possible awarding of credit.

### G. Work Experience Credit

Students may obtain credit for certain types of full-time work experience or for work experience that can be related to high school subject matter.

In order to obtain credit for work experience, students must provide written verification from those employers with whom they have worked for at least one year.

The Continuing Education administrators or counselors will evaluate the amount of work experience credit and the area of application. Evaluation will not be made for more credits than is necessary to meet graduation requirements and which the letters of verification justify. Combined work experience credit and consumer skills task credit may not exceed 40 credits.

Verification of work experience should be obtained by the student requesting from each employer, on official letterhead stationery, the following information:

1. Dates of employment.
2. Job description.
3. Nature of duties performed, indicating progress to more complex operations justifying a division into beginning and advanced skills.
4. Statements regarding successful performance.
5. Reason for termination of employment, if applicable.
6. The letter of self-employed students must be accompanied by a copy of the student's business license or W-2 form.
7. Upon receipt of verification of all work experience which the student wishes to be considered for credit, evaluation will be made on the following basis:
  - a. Up to 10 credits will be given for the first year of successful work experience.
  - b. Up to 10 additional credits to a maximum of 40 will be granted for each additional full year of employment if the student has made successful progress each year on the job.
  - c. After the initial 10 credits for the first year, student may earn 5 credits for a period of six months employment, provided there is evidence of successful progress.

### H. Consumer Skills Tasks Credits

Students may obtain elective credits for completion of various consumer skills tasks. Students should see their counselor concerning requirements for completion of the consumer skills tasks. Combined consumer skills tasks credit and work experience credit may not exceed 40 credits.

## I. Assessment

The district may award a maximum of 80 high school credits on the basis of district approved testing.

### Mathematics Achievement Test (ITED)

Credit may be earned in mathematics by obtaining a satisfactory score on the math section of the Iowa Tests of Education Development Form X5. No other subtests are accepted for credit purposes. Ten semester credits will be awarded for a raw score of 14, provided these credits are not a duplication of previously earned math credits. (These 10 credits may be used to satisfy Math Fundamentals I and II requirements.) Fifteen semester credits will be awarded for a raw score of 20, provided these credits are not a duplication of previously earned math credits. (These 15 credits may be used to satisfy Math Fundamentals I and II requirements, and 5 elective credits.)

### 8. Subject Matter Credit by Examination

Credit by examination may be earned only for courses that are currently listed in the Rancho Santiago Community College District catalog and/or specifically designated by the division curriculum committee as courses that are eligible for credit by examination. Information for receiving this credit may be obtained from a counselor in Continuing Education.

## J. Regional Occupational Program Courses

Credit will be determined upon receipt of an official secondary or community college transcript which indicates credit and grades as appropriate.

Guidelines for issuance of ROP credit when not on a unified school district transcript:

RSCCD will accept an official Grade Reporting Sheet from Central County Regional Occupational Program in lieu of a unified school district transcript provided it has a grade and a number of total hours.

1. The amount of credit issued is to be based on 16 clock hours per credit unit.
2. The maximum of 20 units toward electives will be accepted in this manner.
3. Students coming from outside the CCROP will have to validate their credits only through an official school district transcript.

## K. High School Diploma Elective Credits Career Education

High School elective credit for selected Career Education/basic computer courses offered through the Career Education Department can be awarded.

4. English as a Second Language (ESL)  
Five elective High School Subjects credits can be awarded per level for Intermediate 1, 2, and 3 with passing scores on the ESL Post Tests and teacher recommendations. The passing scores are 75% for Intermediate 1 and 2 and 70% for Intermediate 3.
5. Adult Basic Education (ABE)  
Up to 15 HSS elective credits are granted when student successfully completes ABE Reading, ABE Math, and ABE Writing.

## L. Articulation Agreements

An agreement between Santa Ana College (credit) and Santa Ana College School of Continuing Education (noncredit) whereby the credit side will accept the work of a noncredit student provided that the student fulfills the guidelines in the articulation agreement for the course.

1. Career Education Department
  - a.VBUS 124 Keyboarding I
  - b.VBUS 125 Keyboarding II
  - c.PRNT 557 Early Childhood Education: Principles and Practices

See your counselor for further information.

## STUDENT SERVICES AND SPECIAL NEEDS

### Assessment

To meet the requirements of the Workforce Opportunity and Innovation Act (WIOA) grant, the Comprehensive Adult Student Assessment System (CASAS) standardized test is administered to all students in the following programs: Adult Basic Education; English as a Second Language (including Citizenship classes); and High School Diploma. CASAS is administered to measure student learning gains using a pre- and posttest method.

### Counseling and Guidance

Each School of Continuing Education student is provided with the unique opportunity to benefit from an individualized counseling and guidance program designed to help students improve the quality of their lives.

Students seek counseling for many reasons, including planning of educational programs, obtaining of information about employment and job skills, resolving personal and family problems, examining aptitudes, interests, and achievement, finding new careers and vocational directions, and learning to cope with cultural differences and life in a new country. Students enrolling in courses leading toward a high school diploma must see a counselor upon registering each term. Counselors are available on a walk-in basis at selected facilities. For more information about counselors' schedules or to arrange an appointment, please call 714-241-5720 (Centennial Education Center), 714-564-6176 (Santa Ana College Adult Education Center) and 714-241-5820 (Remington Education Center).

The Student Transition Program (STP) was developed to help facilitate the process and bridge the transition from noncredit to credit classes at Santa Ana College. The program offers:

- classroom presentations
- application workshops
- financial aid workshops
- early registration to SAC

### Child Development

Child development program centers are available at the Centennial Education Center, Santa Ana College, CDC East Campus. Arrangements may be made by calling 714-241-5739.

### Developmentally Disabled Adult Program

Rancho Santiago Community College District is committed to providing all adult members of the community an opportunity to realize individual potentials. The college also identifies and responds to members with special needs.

Continuing Education is sensitive and responsive to the needs of a vital segment of our community-the developmentally disabled adult.

Instructors are assigned to special day centers and resource specialist centers and, in cooperation with staff, design individual education programs at selected locations.

Programs offered include Communication with the Deaf, basic education, independent living skills and employment preparation for the developmentally disabled adult.

### Scholarships

Several scholarships are made available to Continuing Education high school graduates. Selection of scholarship recipients will be based upon recommendation of teachers and counselors, financial need, academic excellence, attendance, and minimum enrollment standards.

## Santa Ana College Foundation Continuing Education Leadership And Achievement Scholarship

The Santa Ana College Foundation sponsors a scholarship program which recognizes both academic achievement and leadership among students earning the high school diploma from the Santa Ana College School of Continuing Education.

The scholarship awards will be based on academic excellence and demonstrated leadership capabilities. The selection committee will consider the applicants' overall qualifications.

Students must enroll for a **MINIMUM** of six credits.

### Minimum Eligibility Requirements:

1. Students who will graduate in the spring semester from Santa Ana College School of Continuing Education High School Program must complete three proficiencies and need no more than 20 credits to meet the graduation credit requirements at the time of scholarship filing date.
2. Complete a minimum of 20 credits in classes within the Rancho Santiago Community College District.
3. A 3.5 GPA or better for all units completed at Rancho Santiago Community College District. (Other high school grades will be considered for qualification; however, the 3.5 minimum GPA will only be computed on grades received in Rancho Santiago Community College District.)

### A. Attendance

A student may be dropped from the roster and required to re-enroll upon returning if the following absences occur:

1. Day Classes: two weeks, or five days in succession.
2. Evening Classes: four class meetings.
3. High School Subjects/Programmed Instruction: two weeks.

Note: Some courses may have different requirements of attendance. Please refer to program guidelines.

### B. Grading Standards/Procedures

<b>A</b>	Superior	4 grade points per NC unit
<b>B</b>	Above Average	3 grade points per NC unit
<b>C</b>	Average	2 grade points per NC unit
<b>D</b>	Less Than Satisfactory	1 grade point per NC unit
<b>F</b>	Fail	0 grade points (but counted in GPA)
<b>P</b>	Pass	0 grade points
<b>W</b>	Withdrawal	0 grade points
<b>CIP</b>	In Progress	0 grade points
<b>SP</b>	Satisfactory Progress	
<b>NP</b>	No Measurable Progress	
<b>COM</b>	Completed	

## C. Procedures for Student Complaints Regarding Grades

1. Education Code 76224 states: "When grades are given for any course of instruction taught in a community college district, the grade given to each student shall be the grade determined by the instructor for the course; and the determination of the student's grade by the instructor, in the absence of mistake, fraud, bad faith, or incompetence, shall be final."

### 2. Procedure

a. Student shall meet with instructor to discuss grade.  
 b. If the issue is not resolved, and the student believes that the grade is based on mistake, fraud, bad faith or incompetency (EC 76224), an appeal in writing may be made to the Dean-Continuing Education.

Forms of written appeal may be found in the office of the Area Dean of Instruction and Student Services.

c. The student may be requested to set up an appointment with the Dean-Continuing Education to discuss the written complaint.

d. The Dean-Continuing Education will review the allegations and may consult with the instructor.

e. The Dean-Continuing Education will review the issue and will notify the student and instructor in writing of the decision.

f. The decision of the Dean-Continuing Education is final.

## D. COMPLAINT PROCEDURES FOR STUDENTS

Students may file a complaint when they believe they have been deprived of a right granted to students by the Board of Trustees in any of the policies or regulations of the Rancho Santiago Community College District.

The purpose of these complaint procedures is to resolve differences as fairly and expeditiously as possible while preserving the rights of students and staff members.

### 1. Definitions

Days: number of days refers to the days when the District offices are open.

Committee: Continuing Education Student Complaint Committee.

### 2. Procedure

a. Students shall first confer with the staff member who took action or made the ruling to which they object no later than ten days following the event which prompted the complaint.

b. The Area Dean of Instruction and Student Services or designee will assist the student in arranging an appointment with the staff member.

If the difference is not satisfactorily resolved, the student shall confer with the staff member's supervisor.

The Area Dean of Instruction and Student Services or designee will assist the student and staff member's supervisor.

c. If the complaint is unresolved, the student may file a written statement setting forth the nature of the complaint on the prescribed form with the Area Dean of Instruction and Student Services no later than ten days after conferring with the staff member's supervisor.

d. The complaint form shall be completed in full and shall include a full description of the complaint, times, dates and pertinent facts, and the remedy sought by the student.

A Student Complaint-Staff Response form will be sent to both the staff member and supervisor for completion.

e. The Area Dean of Instruction and Student Services shall forward the completed forms to the Continuing Education Student Complaint Committee chairperson for review and recommendation.

The committee shall have the power to make an appropriate investigation of the complaint and shall state the findings and make a recommendation.

f. If the complaint is sustained by the committee, it will recommend appropriate action for relief of the complaint and

communicate this in writing to the staff member to whom the complaint was directed. If the staff member accepts the recommended action, and if the student who filed the complaint is satisfied with the action, the complaint shall be considered resolved and closed.

g. If the findings of the committee do not sustain the complaint, the committee shall communicate this finding in writing to the student who filed the complaint. If the student accepts this finding, the complaint shall be considered resolved and closed.

h. If no resolution of the complaint is obtained under (f.) or (g.) above, the Area Dean of Instruction and Student Services shall forward the complaint together with findings of the committee to the Chancellor for review and decision.

i. If this decision does not resolve the complaint in the opinion of the student, the Chancellor shall present the case to the Board of Trustees with the findings and recommendations. If the Board finds that the complaint is invalid, the Chancellor's recommendation shall stand in final resolution. If the Board finds that the complaint is valid, it shall instruct the Chancellor as to how the complaint shall be resolved, and the Chancellor shall implement the Board's decision.

## E. HIGH SCHOOL DIPLOMA STUDENTS

1. Grade Reports: In-class progress is reported to the student in a number of ways. Tests are often given to show individual student progress. In high school credit classes, a progress form is issued to each student as credit is completed, and copies are given to the counselors and the appropriate Continuing Education office for recording.

2. Cumulative Records: The district will maintain cumulative records on each current high school diploma student. These records may contain pertinent information necessary to aid students in educational planning. Placement tests follow-up, interest inventories, and other data contained in the cumulative record will be available for review by the student upon request.

a. Student Record Confidentiality: Under the guidelines of the Family Educational Rights and Privacy Act of 1974, student records are confidential, and privacy is to be scrupulously maintained.

b. Right to Review and Challenge Records: Under the provisions of the U.S. Department of Health, Education and Welfare, students have the right to inspect and review any of the following files:

- admissions/records
- data processing
- financial aid
- placement
- veterans

After review and exploration, students may challenge any information relating to them if they believe information to be inaccurate, misleading, or otherwise in violation of their rights of privacy or other rights. Forms for challenge are available in the Area Dean of Instruction and Student Services office.

### 3. Residency

a. Definition: Course work taken in any part of the Rancho Santiago Community College District Continuing Education Program.

b. Requirements: Any student must fulfill a twenty semester unit period of residency within the above-stated definition in order to qualify for potential granting of the adult high school diploma from the Rancho Santiago Community College District.

4. Charge For Transcripts: The first two transcripts will be issued without charge. A charge will be assessed for each additional transcript after the first two.

## F. High School Petition Students

Secondary school students who wish to take course work in Rancho Santiago Community College District Continuing Education and have it transferred to another school **MUST PRESENT A COMPLETED PETITION FOR REGISTRATION IN ORDER TO BE**



**CONSIDERED FOR ADMISSION. FAILURE TO COMPLY FULLY WITH ALL CONDITIONS LISTED ON THE FORM MAY RESULT IN THE IMMEDIATE REVOCATION OF THE PETITION AND DISMISSAL FROM CONTINUING EDUCATION CLASSES.**

1. Grading and Transfer of Credits: Students must satisfactorily complete all course requirements including exams, projects, papers and attendances before credit or grades can be issued. **STUDENTS ARE RESPONSIBLE FOR PLANNING SCHEDULES AND PROGRESS SO AS TO EARN CREDITS IN TIME TO MEET GRADUATION DEADLINES IN OTHER SCHOOL DISTRICTS.**

2. Books and Supplies: Students must provide textbooks and supplies required for the classes in which enrolled. Conduct: Student conduct must be productive, responsible and courteous at all times. Unacceptable behavior may result in the immediate revocation of this petition and dismissal from class. Unacceptable behavior includes, but is not limited to, excessive talking; noncompliance with rules; failure to follow instructor directions; falsification of records; cheating or assisting others to cheat; destruction or theft of school property; disruption of classes; violence; or being under the influence of drugs or alcohol.

**G. High School Students Taking College Credit Classes for High School Diploma Credit**

1. This program represents a cooperative venture between Rancho Santiago Community College District, neighboring high schools and the School of Continuing Education.
2. Students who are over eighteen years of age and have not graduated from high school may take Rancho Santiago Community College District courses for high school credit. Students will be admitted to those programs that have space available upon recommendation of the Area Dean-Continuing Education or designee.
3. Students under the age of eighteen who are high school students may receive high school or college credit for courses, but must also attend a minimum day at the high school. Students will be admitted to those programs that have space available upon recommendation of the high school principal or designee.
4. Repeating a course already passed will result in a credit-only grade—not a letter grade.
5. If a student elects to receive high school credit for work taken at the college, the decision must be made prior to registration. College credit for that work may not be received at a later time.
6. Enrollment in, and completion of, course work in the Rancho Santiago Community College District credit division can also satisfy the residency requirement of the Continuing Education High School Diploma Program.

**H. SPECIAL RULES, REGULATIONS AND STUDENT OBLIGATIONS**

Because of special program characteristics, the noncredit programs must adhere to special rules, regulations, and student obligation beyond the **STANDARD GUIDELINES FOR STUDENT CONDUCT** adopted by the Rancho Santiago Community College District. Students enrolled in any of the following programs are obligated to perform within those special program guidelines in order to maintain class attendance: Apprenticeship; Service-Employment-Redevelopment (SER); and any other community-based organization or governmental agency with which the Rancho Santiago Community College District cooperates in a program offering.

**I. Family Education Rights and Privacy**

As required under the provisions of the Family Education Rights and Privacy Act of 1974, the Rancho Santiago Community College District will make public without student consent only certain directory information. This information consists of the following: a student's name; city of residence; a major field; participation in officially recognized activities and sports; weight, height, and age if a member of an athletic team; dates of attendance; degree and awards received; and the most recent previous educational institution or agency attended by the student.

A student may request the Admissions and Records Office to withhold

this information. Such request must be in writing and submitted each semester.

**J. Right to Review and Challenge Records**

Students have the right to inspect and review any of the following files which relate directly to them:

- 1) admissions/records; 2) data processing; 3) financial aid; 4) placement; 5) veterans; and 6) division/department, if such files are maintained as official files rather than individual files. Request forms are available in the office of the Area Dean of Instruction and Student Services.

After review and explanation, students may challenge any information relating to them if they believe the information to be inaccurate, misleading, or otherwise in violation of their rights of privacy or other rights. Any student wishing to exercise this right of challenge shall inform the Area Dean of Instruction and Student Services, or the Dean-Admissions and Records.

If students wish, copies of materials contained in the files subject to their review will be provided at a cost of \$1 for the first copy of any document and .10 for each additional copy.

A log or record of persons or organizations requesting information or receiving information on the student will be maintained in the area where the records are stored.

District staff or other professionals who have a legitimate educational interest such as counseling and carrying out the normal operations of the educational program have access to student records.

Any student has the right to file complaint with the U.S. Department of Health, Education and Welfare concerning alleged failure of the institution to comply with provisions above or Section 438 of the General Provision.

**K. Use of Public School Facilities for Adult Classes**

1. Alcoholic Beverages and Controlled Substances: Both by policies instituted by local Boards of Education (Garden Grove Unified School District, Orange Unified School District, Rancho Santiago Community College District and Santa Ana Unified School District) and California State Law specifically prohibit possession of alcoholic beverages and controlled substances on school premises at any time, by any person, regardless of age. Regulations also prohibit use of alcoholic beverages at school events, whether on or off the campus, or the appearance at school events while under the influence of alcoholic beverages and/or controlled substances. The penalty for violation of these regulations is immediate suspension from school, followed by expulsion, if imposed by the Board of Trustees. Additional penalties may be imposed by law enforcement agencies.

2. Smoking: Provisions of the Uniform Fire Code, Article 29, Section 29.06, Smoking Activity on School Property, state:

"It shall be unlawful for any person or persons to engage in any smoking activity or to possess any flaming or glowing object or cause to be lighted any substance in any classroom or on school property at any time except in areas authorized by the local Board of Education." The only areas authorized for smoking are outside the school buildings. There is to be **NO SMOKING** by anyone in any of the classrooms at any time. Proper containers are provided in the smoking areas for disposal of cigarettes

3. Food and Beverages: Food and beverages are not to be brought into the classrooms at any time. Proper containers are provided for disposal of trash in designated areas.

## NONCREDIT INSTRUCTIONAL PROGRAMS AND COURSES

Continuing Education courses are listed by subject on the following pages. Course numbers are listed at the beginning of each course title.

Open Entry/Open Exit courses are noted in the course descriptions. Students may enroll at any time in these courses and begin class immediately. Students progress at their own rate and may exit from the class at any time upon satisfactory completion of the required work.

In other courses, class hours refer to the number of hours that the

class is scheduled to meet per week during a term.

All credits listed are high school credits. In traditional courses, students earn credits by satisfactorily completing the course. In open entry/open exit courses, students earn credits by meeting individual competency-based objectives.

Some noncredit programs offer a sequence of courses leading to a certificate. The class schedule should be consulted for current offerings.

## DIPLOMA/CAREER DEVELOPMENT & COLLEGE PREPARATION CERTIFICATES

### Adult Secondary Education (ASE)

Adult High School Diploma Program . . . . .	357
Secondary Education (High School Equivalency Test Preparation): Certificate of Completion . . . . .	357
Transition to College: Certificate of Competency . . . . .	357

### Adult Basic Education (ABE)

Adult Basic Education: Certificate of Competency . . . . .	357
Adult Basic Education/Adult Secondary Education Reading Proficiency: Certificate of Competency . . . . .	357
Adult Basic Education/Adult Secondary Education Writing Proficiency: Certificate of Competency . . . . .	358
Adult Basic Education/Adult Secondary Education Math Proficiency: Certificate of Competency . . . . .	358
Leadership Capstone: Certificate of Competency . . . . .	358
Spanish Literacy Core Capstone: Certificate of Competency . . . . .	358

### Career Education

Biotechnology: Certificate of Competency . . . . .	358
Caregiver/Personal Care Aide: Certificate of Competency . . . . .	358
Childcare Workers: Certificate of Competency . . . . .	359
Computer Maintenance and Repair Workers: Certificate of Competency . . . . .	359
Customer Service Representative: Certificate of Competency . . . . .	359
Digital Literacy for Office and Administrative Support Worker: Certificate of Competency . . . . .	360
Digital Literacy for Academic and Professional Success I: Certificate of Competency . . . . .	360
Digital Literacy for Academic and Professional Success II: Certificate of Competency . . . . .	360
General Office Clerk: Certificate of Competency . . . . .	360
Heating/Ventilation/Air Conditioning/Refrigeration (HVAC-R) Technology: Certificate of Competency . . . . .	360
Hospitality Services: Certificate of Competency . . . . .	361
Line Cook: Certificate of Competency . . . . .	361
Machinist: Certificate of Competency . . . . .	361
Nursing Assistant: Certificate of Competency . . . . .	361
Paraprofessional Mental Health Worker: Certificate of Competency . . . . .	362
Pharmacy Technology . . . . .	362
Secretary/Administrative Assistant: Certificate of Competency . . . . .	362
Vocational Construction Technology: Certificate of Competency . . . . .	362

### English as a Second Language (ESL)

#### Academic ESL Certificates:

Academic ESL Beginning: Certificate of Competency . . . . .	363
Academic ESL Intermediate: Certificate of Competency . . . . .	363
Academic ESL Capstone: Certificate of Competency . . . . .	363
ESL Transition To Adult Secondary Education (ASE): Certificate of Competency . . . . .	363

#### ESL Core Certificates:

ESL Core Literacy: Certificate of Competency . . . . .	364
ESL Core Beginning: Certificate of Competency . . . . .	364
ESL Core Intermediate: Certificate of Competency . . . . .	364
ESL Core Advanced: Certificate of Competency . . . . .	364
ESL Core Capstone: Certificate of Competency . . . . .	364
Digital Literacy for Academic and Professional Success I: Certificate of Competency . . . . .	365
Digital Literacy for Academic and Professional Success II: Certificate of Competency . . . . .	365

#### ESL Support Course Certificates:

ESL Enhanced Writing Capstone: Certificate of Competency . . . . .	366
ESL Enhanced Speaking Capstone: Certificate of Competency . . . . .	366
ESL Enhanced Civics: Certificate of Competency . . . . .	366

#### Vocational ESL Certificates:

Vocational ESL: Certificate of Competency . . . . .	366
Vocational ESL Enhanced: Certificate of Competency . . . . .	366

**ADULT SECONDARY EDUCATION (ASE)**

Students who complete the SAC SCE Adult Secondary Education High School Subjects or GED Programs will demonstrate the ability to apply essential grammar, reading, writing, math, and social/natural science concepts when transferring to college, entering the workforce, or for personal success.

**Adult High School Diploma Program**

**Program Code: CEC.HSS.DIPL**

Program Control Number: 31594

The sequence of courses in the High School Subjects, Adult Basic Education, and Learning Support programs is designed to provide a strong foundation of basic skills ranging from elementary levels through secondary subjects, with the purpose of preparing students to earn a high school diploma, obtain employment, pursue vocational training and better job opportunities, and to be prepared to continue into college credit level programs.

**Program Learning Outcome(s):**

Demonstrate the ability to apply essential academic concepts when transferring to college, entering the workforce, or for personal success.

**Core Courses:**

	<b>Hours:</b>
HSS English (HSENG), HSS Reading (HSREAD)	40
HSS Math (HSMTH)	20
HSS Natural Sciences (HSSCI)	20
HSS Social Sciences (HSSOC)	30
HSS Arts (HSART)	10
Electives	40
<b>Total:</b>	<b>160</b>

**Electives:**

Adult Basic Education 018, 023, 024, 025, 027, 028, 029, 030, 031, 044, 137; Arts 601, 828, 837; Home Economics 520; HSS General 010, 090, 092, 144, 770; Study Skills 221, 222; English 065, 066, 067, 068, 070, 076, 083, 084, 085, 096, 097, 098, 701, 702, 703, 704, 705, 706, 707, 708; Reading 089, 093, 094; Math 151, 152, 154, 155, 158, 159, 163, 164, 166, 167, 168, 172, 173; Science 170, 171, 185, 186, 190, 191, 192, 193, 196, 197, 198; Social Science 215, 218, 219, 221, 222, 223, 224, 225, 228, 231, 232; Learning 084, 164, 750; Other 740, 742, 743, 744.

**Secondary Education (High School Equivalency Test Preparation):** Certificate of Completion

**Program Code: CEC. GEDC.COM**

Program Control Number: 24264

Courses in ABE which lead to the GED Test Preparation class or the High School Equivalency Test Preparation class (HiSET and GED) will prepare students for the reading, writing, and math skills necessary to successfully pass the High School Equivalency exam. The High School Equivalency exam is equivalent to a high school diploma and prepares students for college and/or to enter the workplace.

**To obtain this certificate, take TWO courses.**

<b>Choose 1 Core Course:</b>	<b>Credits:</b>
HSGED 031 GED Test Preparation	0
HSS 031 High School Equivalency Test Preparation	0
<b>Choose 1:</b>	<b>Credits:</b> 0
ABE 023 Adult Basic Education Reading	0
ABE 024 Adult Basic Education Writing	0
ABE 025 Adult Basic Education Math	0
ABE 112 Beginning Spanish Literacy	0
ABE 113 Intermediate Spanish Literacy	0
ABE 114 Advanced Spanish Literacy	0
<b>Total:</b>	<b>0</b>

**Transition to College: Certificate of Competency**

**Program Code: CEC.TRANS.COM**

Program Control Number: 35217

The Transition to College certificate consists of courses to help students successfully prepare to progress in a career path or undertake degree applicable or non-degree-applicable credit courses in addition to preparing student with an orientation to college course.

**To obtain this certificate, take TWO courses.**

<b>Core Courses:</b>	<b>Credits:</b>
HSS 770 Orientation to College	0
<b>Choose 1:</b>	<b>Credits:</b> 0
HSENG 084 Composition 2	0
HSREAD 089 Reading Proficiency Development	0
HSMTH 164 Algebra 1B	0
<b>Total:</b>	<b>0</b>

**ADULT BASIC EDUCATION (ABE)**

Students who complete the SAC SCE Adult Basic Education (ABE) Program will demonstrate the ability to apply essential reading, writing, and math concepts in either English or Spanish when transferring to High School Subjects, GED, entering the workforce, or for personal success.

**Adult Basic Education: Certificate of Competency**

**Program Code: CEC.ABE.COM**

Program Control Number: 33189

This certificate provides instruction for students to develop basic reading, writing, and math skills necessary to succeed in high school courses, GED preparation, and college courses. This certificate will provide valuable data on student success as ABE students transfer through programs. This certificate supports the college mission by providing a pathway to support improved language skills and lifelong intellectual pursuits.

**To obtain this certificate, take three courses.**

<b>Core Courses:</b>	<b>Credits:</b>
ABE 023 Adult Basic Education Reading	0
ABE 024 Adult Basic Education Writing	0
ABE 025 Adult Basic Education Math	0
<b>Total:</b>	<b>0</b>

**Adult Basic Education/Adult Secondary Education Reading Proficiency: Certificate of Competency**

**Program Code: CEC.ABER.COM**

Program Control Number: 33452

This combination of courses is designed to prepare students for higher level reading skills used in High School courses, GED preparation, and college courses.

**To obtain this certificate, take TWO courses.**

<b>Core Courses:</b>	<b>Credits:</b>
ABE 023 Adult Basic Education Reading	0
<b>Choose 1:</b>	<b>Credits:</b> 15
HSRDG 089 Reading Proficiency Development	5
HSRDG 093 Building Reading Skills 1	5
HSRDG 094 Building Reading Skills 2	5
<b>Total:</b>	<b>15</b>

### Adult Basic Education/Adult Secondary Education Writing Proficiency: Certificate of Competency

**Program Code: CEC.ABEW.COM**

Program Control Number: 33187

This combination of courses is designed to prepare students for higher level writing skills used in high school courses, GED preparation, and College courses.

**To obtain this certificate, take TWO courses.**

<b>Core Courses:</b>		<b>Credits:</b>
ABE 024	Adult Basic Education Writing	5
HSENG 083	Composition 1	0
		<b>Total: 5</b>

### Adult Basic Education/Adult Secondary Education Math Proficiency: Certificate of Competency

**Program Code: CEC.ABEM.COM**

Program Control Number: 33188

This combination of courses is designed to prepare students for higher level math skills used in high school courses, GED preparation, and college courses.

**To obtain this certificate, take TWO courses.**

<b>Core Courses:</b>		<b>Credits:</b>
ABE 025	Adult Basic Education Math	5
HSMTM 159	Math Fundamentals 2	0
		<b>Total: 5</b>

### Leadership Capstone: Certificate of Competency

**Program Code: CEC.LEADC.COM**

Program Control Number: 38177

This combination of courses is designed to provide students with the leadership techniques necessary to make effective changes in their workplace, home, school, and community.

**To obtain this certificate, take TWO courses.**

<b>Choose 1 Core Course:</b>		<b>Credits:</b>
ABE 044	Leadership Basics Part 1	5
HSS 090	Leadership Basics, Part 1	0
<b>Choose 1:</b>		<b>Credits:</b>
ABE 018	Leadership Basics, Part 2	5
HSS 092	Leadership Basics, Part 2	0
		<b>Total: 10</b>

### Spanish Literacy Core Capstone: Certificate of Competency

**Program Code: CEC.ABESL.COM**

Program Control Number: 38623

This combination of courses is designed to provide students with the content level knowledge in the areas of reading, writing, math, science, and social studies necessary to demonstrate comprehension of alfabetizacion (literacy), primaria (elementary), and secundaria (middle school). The class is taught in Spanish.

**To obtain this certificate, take three courses.**

<b>Core Courses:</b>		<b>Credits:</b>
ABE 112	Beginning Spanish Literacy	0
ABE 113	Intermediate Spanish Literacy	0
ABE 114	Advanced Spanish Literacy	0
		<b>Total: 0</b>

### Career Education

Students who complete the SAC SCE Career and Technical Education Program will demonstrate the professionalism, technical, computer, and soft skills needed to obtain a new job or to improve their skills in a current job.

### Biotechnology: Certificate of Completion

**Program Code: CEC.VBIOT.CC**

Program Control Number: 38684

This series of courses prepares students to transition to Santa Ana College's Biotechnology Lab Assistant Certificate Program. After completing these series of courses and the remaining required courses at Santa Ana College, students will have a fundamental overview of the application and underlying principles of biotechnology. They will know how to operate and maintain standard laboratory equipment. Students will have the knowledge and laboratory skills necessary to obtain entry level jobs in biotechnology. In VBUS 400 Employability Skills or VESL 520 English for Work 2, students learn soft skills that are beneficial in working in any biotechnological environment.

#### Program Learning Outcome(s):

Apply the knowledge and skills they gained to start their career pathway in biotechnology.

<b>Complete and pass the following TWO courses:</b>		<b>Credits:</b>
VHLTH 704	Introduction to Biotechnology	0
VHLTH 705	Introductory Biotech Lab	0
<b>Complete and pass ONE of the following courses:</b>		<b>Credits:</b>
VBUS 400	Employability Skills	0
– or –		
ESL 520	VESL: English for Work 2	0
		<b>Total: 0</b>

### Caregiver/Personal Care Aide: Certificate of Completion

**Program Code: CEC.CGPCA.CC**

Program Control Number: 38621

This program prepares students to assist the elderly, convalescents, or persons with disabilities with daily living activities at the person's home or in a care facility. In a simulated caregiving environment, students will gain experience performing caregiver duties, which may include nutrition, cleanliness, ambulation, and household activities. In Employability Skills or VESL: English for Work 2, students learn soft skills that are beneficial for working in any health/medical environment.

#### Program Learning Outcome(s):

Apply the knowledge and skills they gained to obtain entry-level employment as a caregiver/personal care aide and/or start their career pathway in healthcare.

<b>Complete and pass the following TWO courses:</b>		<b>Credits:</b>
VHLTH 109	Introduction to Caregiving	0
VHLTH 110	Caregiver Training	0
<b>Complete and pass ONE of the following courses:</b>		<b>Credits:</b>
VBUS 400	Employability Skills	0
ESL 520	VESL: English for Work 2	0
		<b>Total: 0</b>

**Childcare Workers: Certificate of Completion****Program Code: CEC.CWRK.CC**

Program Control Number: 24362

This series of open entry/open exit courses provides students with knowledge about the care and development of infants, toddlers, and pre-school children for family childcare providers. Students will learn about health information required for licensing and skills necessary for successful operation of a childcare business. In Employability Skills students learn soft skills for those who would prefer to be employed by a childcare business.

**Program Learning Outcome(s):**

Apply the knowledge and skills they gained to obtain entry-level employment, start their home-based childcare center, and/or start their career pathway in early childhood education.

**Complete and pass the following FOUR courses: Credits: 0**

PRNT 558	Early Childhood Care and Development for Family Child Care Providers	0
PRNT 562	Health Education for Family Day Care Providers	0
VBUS 559	Business Practices in Family Day Care	0
VBUS 590	Introduction on How to Start a Small Business	0

**Complete and pass ONE of the following courses: Credits: 0**

VBUS 400	Employability Skills	0
	- or -	
ESL 520	VESL: English for Work 2	0

**Total: 0****Computer Maintenance and Repair Workers: Certificate of Completion****Program Code: CEC.CMRW.CC**

Program Control Number: 24384

This series of courses provides students with skills in maintenance, repair, upgrading, and networking of personal computers. The open-entry/open-exit instructional format emphasizes functional operations of hardware and software components, hands-on experience with upgrading and repair of computers, setting up home and small office networks, and troubleshooting most technical problems. Students will receive five High School elective credits upon completion of each course.

**Program Learning Outcome(s):**

Apply the knowledge and skills they gained to obtain entry-level employment and/or start their career pathway in information technology or technology related fields.

**Complete and pass the following THREE courses: Credits: 0**

VBUS 450	Hardware and Software A+ Preparation, Review, Practice	0
VBUS 574	Computer Basics: Hardware and Software	0
VBUS 576	Computer Basics: Systems and Networking Essentials	0

**Complete and pass ONE of the following courses: Credits: 0**

VBUS 400	Employability Skills	0
	- or -	
ESL 520	VESL: English for Work 2	0

**Total: 0****Customer Service Representative: Certificate of Completion****Program Code: CEC.CSRC.CC**

Program Control Number: 24364

Customer service representatives interact with customers to handle complaints, process orders, and provide information about an organization's products and services. This series of courses prepares students to work in a wide variety of business settings, with the focus being on attending to and meeting the customer's needs and requests. Students will have the opportunity to strengthen or improve their current customer service, interpersonal, communication, listening, patience, and problem-solving qualities. In addition, students will attain the typing and computer skills necessary to be efficient workers. Customer service representatives typically need a high school diploma or equivalent so students are recommended to earn a diploma/certificate to increase the probability of obtaining a position in this profession. High school elective credits may be given for completing VBUS 118, VBUS 124, VBUS 243, VBUS 258, VBUS 270, and VBUS 400 if the student achieves the attendance and proficiency requirements to pass these classes. Customer service representatives are employed in nearly every industry, with many working in telephone call centers, credit and insurance agencies, banks, and retail stores.

**Program Learning Outcome(s):**

Apply the knowledge and skills they gained to obtain employment as a customer service representative and/or start their career pathway in administrative support.

**Complete and pass the following TWO courses: Credits: 0**

VBUS 124	Introduction to Keyboarding I	0
VBUS 243	Introduction to Customer Service Skills	0

**Complete and pass ONE of the following courses: Credits: 0**

VBUS 400	Employability Skills	0
ESL 520	VESL: English for Work 2	0

**Complete and pass ONE of the following courses: Credits: 0**

VBUS 118	Introduction to Windows	0
VBUS 258	Navigating the Internet	0
VBUS 270	Introduction to Microsoft Outlook	0

**Total: 0**

## Digital Literacy for Office and Administrative Support Worker: Certificate of Completion

**Program Code: CEC.DLOAS.CC**

Program Control Number: 39456

This certificate program connects ESL and career education instruction in a way that prepares English language and/or digital literacy learners for further education or training, employment and careers. Students will engage in collaborative projects designed to help the student develop the professional and technical computer skills needed to succeed in today's workforce. Upon completing this program, students will have developed the knowledge, skills, and confidence needed to make an easy transition to the General Office Clerk, Secretary/Administrative Assistant, and/or Customer Service Representative Certificate Programs offered by Santa Ana College School of Continuing Education. The certificate provides students with the foundational digital literacy skills to begin an office and administrative support career pathway.

### Program Learning Outcome(s):

Apply the knowledge and skills they gained to obtain entry-level employment and/or start their career pathway in administrative support.

### Complete and pass the following FOUR courses: Credits: 0

VBUS 500	Digital Literacy for Academic and Professional Success - Tier 1	0
VBUS 501	Digital Literacy for Academic and Professional Success - Tier 2	0
VBUS 502	Digital Literacy for Academic and Professional Success - Tier 3	0
VBUS 503	Digital Literacy for Real World Application - Tier 4	0

### Complete and pass ONE of the following courses: Credits: 0

VBUS 400	Employability Skills	0
ESL 520	VESL: English for Work 2	0

**Total: 0**

## General Office Clerk: Certificate of Completion

**Program Code: CEC.GOC.CC**

Program Control Number: 24365

General office clerks perform a variety of clerical tasks, including using the computer to prepare documents and interact with staff, clients, and the public. This series of courses offers students the foundation for learning important soft skills, basic office skills, and using the computer software necessary to work in a general office setting. General office clerks typically need a high school diploma or equivalent so students are recommended to earn a diploma/certificate to increase the probability of obtaining a position in this profession. High school elective credits may be given for completing VBUS 118, VBUS 124, VBUS 260, VBUS 262, and VBUS 400 if the student achieves the attendance and proficiency requirements to pass these classes.

### Program Learning Outcome(s):

Use the computer software necessary to work in a general office setting.

### Complete and pass the following TWO courses: Credits: 0

VBUS 260	Introduction to Word Processing Using MS Word	0
VBUS 262	Introduction to Spreadsheets Using MS Excel	0

### Complete and pass ONE of the following courses: Credits: 0

VBUS 400	Employability Skills	0
ESL 520	VESL: English for Work 2	0

### Complete and pass ONE of the following courses: Credits: 0

VBUS 118	Introduction to Windows	0
VBUS 124	Introduction to Keyboarding I	0

**Total: 0**

## Heating/Ventilation/Air Conditioning/Refrigeration (HVAC-R) Technology: Certificate of Completion

**Program Code: CEC.VHVAC.CC**

Program Control Number: 39745

The Heating/Ventilation/Air Conditioning/Refrigeration (HVAC-R) (Heating, Ventilation, Air Conditioning and refrigeration) Technology program develops students for careers or additional education in the HVAC-R field. Students completing the courses in this certificate will have competence in the program areas of safety, basic refrigeration, basic electricity, heating, air-conditioning, ventilation, and soft skills. Students will possess entry-level skills in the repair and servicing of refrigeration, air conditioning, and heating equipment used in residential, industrial, and commercial buildings.

### Program Learning Outcome(s):

Students will possess entry-level skills in the repair and servicing of refrigeration, air conditioning, and heating equipment use in residential, industrial, and commercial buildings.

### Complete and pass the following course: Credits: 0

VCNST630	Heating/Ventilation/Air Conditioning/Refrigeration (HVAC-R) Technology	0
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### Complete and pass ONE of the following courses: Credits: 0

VBUS400	Employability Skills	0
ESL520	VESL: English for Work 2	0

**Total: 0**

**Hospitality Services: Certificate of Completion****Program Code: CEC.VHOSP.CC**

Program Control Number: 38680

The Hospitality Services Certificate allows students to explore careers in hospitality, specifically in food services and hotel/motel/resort front desk; understand the advantages and challenges of each; and use self-assessment tools to determine which is right for them. The program emphasizes customer service and its importance, helping students understand customer behavior and loyalty in a diverse and increasingly global society. Students will also learn techniques and tips for finding work in the hospitality industry. Moreover, in Employability Skills or VESL: English for Work 2, students learn soft skills that are beneficial for working in any hospitality environment.

**Program Learning Outcome(s):**

Apply the knowledge and skills they gained to obtain entry-level employment and/or start their career pathway in hospitality.

**Complete and pass the following TWO courses: Credits: 0**

VHOSP 201	Career Focus - Hospitality Services	0
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VBUS 243	Introduction to Customer Services Skills	0
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**Complete and pass ONE of the following courses: Credits: 0**

VBUS 118	Introduction to Windows	0
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VFOOD 005	ServSafe Food Handler	0
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**Complete and pass ONE of the following courses: Credits: 0**

VBUS 400	Employability Skills	0
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ESL 520	VESL: English for Work 2	0
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**Total: 0****Line Cook: Certificate of Completion****Program Code: CEC.VCOOK.CC**

Program Control Number: 39746

Line Cook is an important job in the restaurant industry. This training program allows students to master basic cooking techniques which can then be used to create an endless variety of dishes. Students have an opportunity to learn many aspects of food preparations, and the proper methods of presentation and serving. Students will also be prepared to take the ServSafe Food Protection Manager Certification Exam. In VBUS 400 Employability Skills or VESL 520 English for Work 2, students learn soft skills that are beneficial in working in any culinary environment. In addition, the program prepares students to transition to Santa Ana College's Culinary Arts Program to continue their training. High school elective credits may be given for completing VFOOD 200, VFOOD 210, and VBUS 400 if the student achieves the attendance and proficiency requirements to pass these courses.

**Program Learning Outcome(s):**

Prepare students for employment as line cooks and food preparation workers. In addition, it prepares students for a pathway in culinary careers and transition to Santa Ana College's Culinary Arts Program.

**Complete and pass the following TWO courses: Credits: 0**

VFOOD200	Line Cook Training	0
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VFOOD210	ServeSafe Food Protection Manager Certification Exam Preparation, Review, & Practice	0
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**Complete and pass ONE of the following courses: Credits: 0**

VBUS400	Employability Skills	0
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ESL520	VESL: English for Work 2	0
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**Total: 0****Machinist: Certificate of Completion****Program Code: CEC.VMACH.CC**

Program Control Number: 39747

These courses prepare students to transition to Santa Ana College's Manufacturing Technology Program. Students will learn the fundamental operations on lathes, milling machines, grinders, and drill pressers, including precision measurements and layout. Students will be equipped with the skills and theory necessary to enter or upgrade within the machinist trade. In VBUS 400 Employability Skills or VESL 520 English for Work 2, students learn soft skills that are beneficial in working in any manufacturing technology environment.

**Program Learning Outcome(s)**

Apply the knowledge and skills they gained to start their career pathway in manufacturing technology.

**Complete and pass the following TWO courses: Credits: 5**

VBUS680	Basic Machining Concepts and Operations	0
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HSMTH158	Math Fundamentals 1	5
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**Complete and pass ONE of the following courses: Credits: 0**

VBUS400	Employability Skills	0
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ESL520	VESL: English for Work 2	0
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**Total: 5****Nursing Assistant: Certificate of Completion****Program Code: CEC.VNRNA.CC**

Program Control Number: 39748

The Nursing Assistant Certificate is designed to provide students with the clinical and theoretical knowledge to prepare for the Certified Nursing Assistant (CNA) designation. Students will learn to be part of a healthcare team under the supervision of a nurse. The curriculum is based on the professional standards established by regulatory agencies, and it covers essential topics included in the Nurse Assistant Certification Exam. Moreover, in Employability Skills or VESL: English for Work 2, students learn soft skills that are beneficial for working in any medical environment.

**Program Learning Outcome(s):**

Prepare students to take the California certification exam.

**Complete and pass the following TWO courses: Credits: 0**

VHLTH101	Overview of the Nursing Assistant Training Program	0
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VHLTH102	Certified Nursing Assistant (CNA) Training	0
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**Complete and pass ONE of the following courses: Credits: 0**

VBUS400	Employability Skills	0
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ESL520	VESL: English for Work 2	0
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**Total: 0**

**Paraprofessional Mental Health Worker: Certificate of Completion****Program Code: CEC.NAOA.CC**

Program Control Number: 24358

This series of courses provides students with the basic skills to gain employment as a Paraprofessional Mental Health Worker. Students acquire knowledge about the treatment of psychological and behavioral health disorders and the philosophy of delivery of mental health services to improve entry into this field. The certificate program in an open-entry/open-exit environment develops competency for vocational success that allows students to attain skill development in basic delivery of services, documentation and reporting, introduction to human development, principles of case management, working with families, and employability.

**Program Learning Outcome(s):**

Apply the knowledge and skills they gained to obtain entry-level employment and/or start their career pathway in mental healthcare.

**Complete and pass ALL of the following courses: Credits: 0**

VBUS 400	Employability Skills	0
VHLTH 895	Paraprofessional Mental Health Worker I	0
VHLTH 896	Paraprofessional Mental Health Worker II	0
VHLTH 897	Paraprofessional Mental Health Worker III	0
<b>Total:</b>		<b>0</b>

**Pharmacy Technology: Certificate of Completion****Program Code: CEC.VPHAR.CC**

Program Control Number: 38771

This certificate introduces students to the Santa Ana College Pharmacy Technology program and pharmacy technology careers. As registered School of Continuing Education students, students must pass the Principles of Mathematics course which prepares them with the basic math skills needed to succeed in pharmacy calculation. In Employability Skills or VESL: English for Work 2, students learn soft skills that are beneficial for working in any pharmaceutical environment. The remaining courses to meet the minimum training to apply for the Board of Pharmacy License are to be taken as a student enrolled at Santa Ana College. After completing all the required courses at Santa Ana College, students are primarily prepared for employment.

**Program Learning Outcome(s):**

Apply the knowledge and skills they gained to start their career pathway in pharmacy technology.

**Complete and pass the following TWO courses: Credits: 0**

VHLTH 799	Introduction to Pharmacy Technology	0
HSMTH 151	Principles of Mathematics	5

**Complete and pass ONE of the following courses: Credits: 0**

VBUS 400	Employability Skills	0
ESL 520	VESL: English for Work 2	0
<b>Total:</b>		<b>5</b>

**Secretary/Administrative Assistant: Certificate of Completion****Program Code: CEC.SECAD.CC**

Program Control Number: 24390

Secretaries and administrative assistants perform routine clerical and administrative duties. They organize files, prepare documents, schedule appointments, and support other staff. This series of courses helps students prepare for office support positions that might require enhanced keyboarding skills and higher-level office management skills. Secretaries/administrative assistants need a high school diploma or equivalent so students are recommended to earn a diploma/certificate to obtain a position in this profession. High school elective credits may be given for completing VBUS 125, VBUS 244, VBUS 245, VBUS 270, VBUS 304, and VBUS 400 if the student achieves the attendance and proficiency requirements to pass these classes. Secretaries and administrative assistants work in nearly every industry with many employed in schools, hospitals, and government, legal, and medical offices.

**Program Learning Outcome(s):**

Apply the knowledge and skills they gained to obtain entry-level employment and/or start their career pathway in administrative support.

**Complete and pass the following TWO courses: Credits: 0**

VBUS 125	Introduction to Keyboarding II	0
VBUS 270	Introduction to Microsoft Outlook	0

**Complete and pass ONE of the following courses: Credits: 0**

VBUS 400	Employability Skills	0
ESL 520	VESL: English for Work 2	0

**Complete and pass ONE of the following courses: Credits: 0**

VBUS 244	Introduction to Databases Using Microsoft Access	0
VBUS 245	Introduction to Desktop Publishing Using Microsoft Publisher	0
VBUS 304	Introduction to Electronic Presentations Using Powerpoint	0
<b>Total:</b>		<b>0</b>

**Vocational Construction Technology: Certificate of Completion****Program Code: CEC.VCNST.CC**

Program Control Number: 32681

This series of courses will provide students with the skills to move towards employment as an apprentice in various areas which may include: General and commercial contracting and/or property maintenance. In addition to getting hands-on instruction in construction, students will receive classroom instruction in math, Occupational Safety and Health Administration (OSHA) safety standards, and employability skills. Students will receive 5 High School elective credits upon completion of each course.

**Program Learning Outcome(s):**

Apply the knowledge and skills they gained to obtain entry-level employment, apprenticeship, and/or start their career pathway in construction.

**Complete and pass ALL of the following courses: Credits: 0**

VCNST 610	Vocational Construction Technology Module I	0
VCNST 620	Vocational Construction Technology Module II	0
VBUS 400	Employability Skills	0
<b>Total:</b>		<b>0</b>



## English as a Second Language (ESL)

Upon completion of the SAC SCE ESL program, students will demonstrate increased proficiency in the listening, speaking, reading, writing, and critical thinking skills necessary to further their education, enter the workforce, and actively participate in the community.

### Academic ESL Certificates:

#### Academic ESL Beginning:

Certificate of Competency

##### Program Code: CEC.ESLB.COM

Program Control Number: 30785

This combination of courses is designed to help students prepare to successfully transition to Career Technical Education (CTE), Adult Basic Education (ABE) courses, GED Test Preparation or High School Equivalency Test Preparation courses, High School Subjects courses, and college courses.

#### Program Learning Outcome(s):

Take other courses in other programs.

#### Complete ALL of the following courses.

ESL 704	Academic Beginning A	Credits: 0	0
ESL 705	Academic Beginning B	Credits: 0	0
		<b>Total:</b>	0

#### Academic ESL Intermediate: Certificate of Competency

##### Program Code: CEC.ESLI.COM

Program Control Number: 30788

This combination of courses is designed to help students prepare to successfully transition to Career Technical Education (CTE), Adult Basic Education (ABE) courses, GED Test Preparation or High School Equivalency Test Preparation courses, High School Subjects courses, and college courses.

#### Program Learning Outcome(s):

Take other courses in other programs.

#### Complete ALL of the following courses.

ESL 706	Academic Intermediate A	Credits: 0	0
ESL 707	Academic Intermediate B	Credits: 0	0
		<b>Total:</b>	0

## Academic ESL Capstone: Certificate of Competency

### Program Code: CEC.ESLC.COM

Program Control Number: 37199

This capstone certificate is designed to demonstrate the students' accumulated development and advanced knowledge to successfully transition to Career Technical Education (CTE), Adult Basic Education (ABE) courses, GED Test Preparation or High School Equivalency Test Preparation courses, High School Subjects courses, and college courses.

#### Program Learning Outcome(s):

Take other courses in other programs.

#### To obtain this certificate, take TWO courses.

##### Core Courses:

ESL 706	Academic Intermediate A	Credits: 0	0
ESL 707	Academic Intermediate B	Credits: 0	0

##### Choose 1:

ABE 023	Adult Basic Education Reading	Credits: 15	0
ABE 024	Adult Basic Education Writing	0	0
ESL 491	Advanced Writing and Grammar Review	0	0
ESL 720	ESL Transition to College Class	0	0
HSGED 031	GED Test Preparation	0	0
HSRDG 089	Reading Proficiency Development	5	5
HSRDG 093	Building Reading Skills 1	5	5
HSS 031	High School Equivalency Test Preparation	0	0
LRN 750	Intensive Writing and Grammar	5	5
VBUS 400	Employability Skills	0	0
		<b>Total:</b>	15

#### ESL Transition To Adult Secondary Education (ASE): Certificate of Competency

##### Program Code: CEC.ESLTA.COM

Program Control Number: 37200

This combination of courses is designed to transition students to Adult Secondary Education (ASE) courses.

#### Program Learning Outcome(s):

Take other courses in other programs.

#### To obtain this certificate, take TWO courses:

##### Core Course:

ESL 491	Advanced Writing and Grammar Review	Credits: 0	0
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##### Choose 1:

HSRDG 089	Reading Proficiency Development	5	5
HSRDG 093	Building Reading Skills 1	5	5
VBUS 258	Navigating the Internet	0	0
VBUS 260	Introduction to Word Processing Using MS Word	0	0
LRN 750	Intensive Writing and Grammar	5	5
		<b>Total:</b>	15

**ESL Core Certificates:**

**ESL Core Literacy: Certificate of Competency**

**Program Code: CEC.ESLCL.COM**

Program Control Number: 37093

This combination of courses is designed to help students develop adequate literacy skills to succeed in the core ESL courses that follow. In this series of courses, students will learn to function at a basic literacy level in reading, writing, listening, and speaking in both English and in their native language.

**Program Learning Outcome(s):**

Take other courses in other programs.

**To obtain this certificate, take TWO courses.**

**Core Course:**

ESL 300 Literacy

**Choose 1:**

ABE 111 Spanish Literacy for Adults

ABE 112 Beginning Spanish Literacy

ABE 113 Intermediate Spanish Literacy

ABE 114 Advanced Spanish Literacy

**Credits:** 0

0

**Credits:** 0

0

0

0

0

**Total:** 0

**ESL Core Beginning: Certificate of Competency**

**Program Code: CEC.ESLCB.COM**

Program Control Number: 36618

This combination of courses is designed to help students begin to communicate in some of the everyday life situations they will encounter at home, at work, at school, and in the community.

**Program Learning Outcome(s):**

Take other courses in other programs.

**Complete ALL of the following courses.**

ESL 300 Literacy

ESL 301 Beginning Low

ESL 302 Beginning High

**Credits:** 0

0

0

0

**Total:** 0

**ESL Core Intermediate: Certificate of Competency**

**Program Code: CEC.ESLCI.COM**

Program Control Number: 36828

This combination of intermediate-level courses is designed to help students communicate in many of the everyday life situations they will encounter at home, at work, at school, and in the community.

**Program Learning Outcome(s):**

Take other courses in other programs.

**To obtain this certificate, take TWO courses.**

**Choose 1:**

ESL 303 Intermediate Low

ESL 704 Academic Beginning A

**Choose 1:**

ESL 304 Intermediate High

ESL 706 Academic Intermediate A

ESL 707 Academic Intermediate B

**Credits:** 0

0

0

**Credits:** 0

0

0

0

**Total:** 0

**ESL Core Advanced: Certificate of Competency**

**Program Code: CEC.ESLCA.COM**

Program Control Number: 36829

This combination of two advanced-level courses is designed to help students communicate in most of the everyday life situations they will encounter at home, at school, at work and in the community. The courses emphasize reading and writing.

**Program Learning Outcome(s):**

Take other courses in other programs.

**To obtain this certificate, take TWO courses.**

**Credits:** 0

ESL 305 Advanced Low

0

ESL 306 Advanced High

0

ESL 706 Academic Intermediate A

0

ESL 707 Academic Intermediate B

0

**Total:** 0

**ESL Core Capstone: Certificate of Competency**

**Program Code: CEC.ESLCS.COM**

Program Control Number: 36880

This combination of courses is designed to help students communicate in most of the everyday life situations they will encounter at home, at school, at work and in the community. These courses emphasize reading and writing to prepare students for higher education and career opportunities.

**Program Learning Outcome(s):**

Take other courses in other programs.

**To obtain this certificate, take FOUR courses.**

**Choose 3:**

**Credits:** 0

ESL 304 Intermediate High

0

ESL 305 Advanced Low

0

ESL 306 Advanced High

0

ESL 705 Academic Beginning B

0

ESL 706 Academic Intermediate A

0

ESL 707 Academic Intermediate B

0

**Choose 1:**

**Credits:** 15

ABE 023 Adult Basic Education Reading

0

ABE 024 Adult Basic Education Writing

0

ESL 491 Advanced Writing and Grammar Review

0

ESL 720 ESL Transition to College Class

0

HSGED 031 GED Test Preparation

0

HSRDG 089 Reading Proficiency Development

5

HSRDG 093 Building Reading Skills 1

5

HSS 031 High School Equivalency Test Preparation

0

LRN 750 Intensive Writing and Grammar

5

VBUS 400 Employability Skills

0

**Total:** 15

**Digital Literacy for Academic and Professional Success I: Certificate of Competency**

**Program Code: CEC.DLAP1.COM**

Program Control Number: 39572

This certificate program is designed for ESL students, of all levels, to learn new and/or improve their digital literacy skills. It covers operating systems, word processing applications, e-mail, the internet, online educational applications, social media, and more. Upon completing this program, students will have developed the technical knowledge, language skills, and confidence needed for social and academic growth with the digital literacy to make a successful transition to office technology programs in Career Education.

**Program Learning Outcome(S)**

Upon completing this program, students will have developed the technical knowledge, language skills, and confidence needed for social and academic growth with the digital literacy to make a successful transition to office technology programs in Career Education.

**To obtain this certificate, take TWO courses.**

<b>Take ONE course:</b>		<b>Credits: 0</b>
ESL 301	Beginning Low	0
ESL 302	Beginning High	0
ESL 303	Intermediate Low	0
ESL 304	Intermediate High	0
ESL 305	Advanced Low	0
ESL 306	Advanced High	0
ESL 704	Academic Beginning A	0
ESL 705	Academic Beginning B	0
ESL 706	Academic Intermediate A	0
ESL 707	Academic Intermediate B	0
<b>Take ONE course:</b>		<b>Credits: 0</b>
VBUS500	Digital Literacy for Academic and Professional Success - Tier 1	0
VBUS501	Digital Literacy for Academic and Professional Success - Tier 2	0
		<b>Total: 0</b>

**Digital Literacy for Academic and Professional Success II: Certificate of Competency**

**Program Code: CEC.DLAP2.COM**

Program Control Number: 39573

This certificate program is designed for ESL students, of all levels, to learn new and/or improve their digital literacy skills. It covers internet safety, online conferencing, blogging, learning management systems, online portfolios, and more. Upon completing this program, students will have developed the technical knowledge, language skills, and confidence needed for social and academic growth with the digital literacy to make a successful transition to office technology programs in Career Education.

**Program Learning Outcome(s):**

Upon completing this program, students will have developed the technical knowledge, language skills, and confidence needed for social and academic growth with the digital literacy to make a successful transition to office technology programs in Career Education.

**To obtain certificate, take TWO courses:**

<b>Take ONE course:</b>		<b>Credits: 0</b>
ESL 301	Beginning Low	0
ESL 302	Beginning High	0
ESL 303	Intermediate Low	0
ESL 304	Intermediate High	0
ESL 305	Advanced Low	0
ESL 306	Advanced High	0
ESL 704	Academic Beginning A	0
ESL 705	Academic Beginning B	0
ESL 706	Academic Intermediate A	0
ESL 707	Academic Intermediate B	0
<b>Take ONE course:</b>		<b>Credits: 0</b>
VBUS 502	Digital Literacy for Academic and Professional Success - Tier 3	0
VBUS 503	Digital Literacy for Real World Application – Tier 4	0
		<b>Total: 0</b>

**ESL Support Course Certificates:**

**ESL Enhanced Writing Capstone: Certificate of Competency**

**Program Code: CEC.ESLEW.COM**

Program Control Number: 36835

This combination of courses is designed to help students quickly improve their writing abilities in English by focusing on writing and grammar.

**Program Learning Outcome(s):**

Take other courses in other programs.

**To obtain this certificate, take THREE courses.**

<b>Choose 3:</b>		<b>Credits:</b>	0
ESL 488	Basic Writing		0
ESL 489	Intermediate Writing		0
ESL 490	Advanced Writing and Grammar		0
ESL 491	Advanced Writing and Grammar Review		0
	<b>Total:</b>		0

**ESL Enhanced Speaking Capstone: Certificate of Competency**

**Program Code: CEC.ESLES.COM**

Program Control Number: 37094

This combination of courses is designed to help students quickly improve their speaking abilities in English by focusing on pronunciation and conversation.

**Program Learning Outcome(s):**

Take noncredit or credit classes, make progress in a career path, or transition to other programs at public and private institutions.

**To obtain this certificate, take TWO courses.**

<b>Choose 1</b>		<b>Credits:</b>	0
ESL 570	Conversation 1		0
ESL 580	Conversation 2		0
<b>Choose 1:</b>		<b>Credits:</b>	0
ESL 130	Topics in English as a Second Language		0
ESL 398	ESL Community Learning Center		0
ESL 530	American English Pronunciation		0
	<b>Total:</b>		0

**ESL Enhanced Civics: Certificate of Competency**

**Program Code: CEC.ESLEC.COM**

Program Control Number: 37095

This combination of courses is designed to help students learn more about civics involvement opportunities, prepare for U.S. Citizenship, and participate in the community.

**Program Learning Outcome(s):**

Take noncredit or credit classes, make progress in a career path, or transition to other programs at public and private institutions.

**To obtain this certificate, take TWO courses.**

<b>Choose 2:</b>		<b>Credits:</b>	0
ESL 120	ESL Civics		0
ESL 130	Topics in English as a Second Language		0
ESL 392	Writing and Computers: Developing a School Publication		0
ESL 398	ESL Community Learning Center		0
	<b>Total:</b>		0

**Vocational ESL Certificates**

**Vocational ESL: Certificate of Competency**

**Program Code: CEC.ESLV.COM**

Program Control Number: 30782

This combination of courses is designed to help students communicate successfully in an English speaking workplace.

**Program Learning Outcome(s):**

Take other related classes in vocational, credit, private programs or other community-based organizations.

<b>Complete ALL of the following courses.</b>		<b>Credits:</b>	0
ESL 510	VESL: English for Work 1		0
ESL 520	VESL: English for Work 2		0
	<b>Total:</b>		0

**Vocational ESL Enhanced: Certificate of Competency**

**Program Code: CEC.ESLVH.COM**

Program Control Number: 37238

This combination of courses is designed to help students communicate successfully in an English-speaking workplace and includes the development of writing and/or computer skills.

**Program Learning Outcome(s):**

Take other related classes in vocational, credit, private programs or other community-based organizations.

**To obtain this certificate, take TWO courses.**

<b>Choose 1</b>		<b>Credits:</b>	0
ESL 510	VESL: English for Work 1		0
ESL 520	VESL: English for Work 2		0
<b>Choose 1:</b>		<b>Credits:</b>	0
ESL 130	Topics in English as a Second Language		0
ESL 394	ESL Writing A		0
ESL 398	ESL Community Learning Center		0
ESL 488	Basic Writing		0
	<b>Total:</b>		0

**ANNOUNCEMENT OF COURSES****Adult Basic Education (ABE)****ABE 010****Money Matters: Financial Literacy**

Credit(s): 0.0 Class Hours: 36.0 Lecture total.

Prepares the student for the adult world of financial management by developing sound decision-making skills in personal and family money matters. Two point five (2.5) high school elective credits may be given for completing ABE 010 if the student achieves the attendance and proficiency requirements to pass the class.

**ABE 018****Leadership Basics, Part 2**

Credit(s): 0 Class Hours: 72 Lecture total.

Students will increase their mastery of basic skills through intensive, interactive, student-centered activities designed to give hands-on training and experience in aspects of directing and facilitating a conference. This is the second of a two-part leadership course in which students apply leadership techniques in the workplace, home, school, and the community. Five high school elective credits may be given for completing either ABE 018 or HSS 092. Open Entry/Open Exit.

**ABE 023****Adult Basic Education Reading**

Credit(s): 0 Class Hours: 72 Lecture total.

Instructs students in basic reading skills. Prepares students to take High School Subjects courses, job training, GED Preparation, or college credit classes. Recommended for Intermediate ESL 2 students or above and/or placement by counselor assessment. Five High School elective credits may be granted for successful completion of this class. Open Entry/Open Exit.

**ABE 024****Adult Basic Education Writing**

Credit(s): 0 Class Hours: 72 Lecture total.

Instructs students in basic writing skills. Prepares students to take High School Subjects courses, job training, GED Preparation, or college credit classes. Recommended for Intermediate ESL 2 students or above and/or placement by counselor assessment. Five High School elective credits may be granted for successful completion of this class. Open Entry/Open Exit.

**ABE 025****Adult Basic Education Math**

Credit(s): 0 Class Hours: 72 Lecture total.

Instructs students in basic math skills. Prepares students to take High School Subjects courses, job training, GED Preparation, or college credit classes. Recommended for Intermediate ESL 2 students or above and/or placement by counselor assessment. Five High School elective credits may be granted for successful completion of this class. Open Entry/Open Exit.

**ABE 027****Academic Vocabulary for Language Arts**

Credit(s): 0 Class Hours: 15 Lecture total.

Instructs and familiarizes entry-level students in academic vocabulary for language arts. Prepares students to take high school subjects in language arts, job training, GED Preparation, or college credit classes. Recommended for Intermediate ESL 2 students or above and/or placement by counselor assessment. One high school elective credit may be granted for successful completion of this class. Open Entry/Open Exit.

**ABE 028****Academic Vocabulary for Math**

Credit(s): 0 Class Hours: 15 Lecture total.

Instructs and familiarizes entry-level students in academic vocabulary for math courses. Prepares students to take high school subjects in math, job training, GED Preparation, or college credit classes. Recommended for Intermediate ESL 2 students or above and/or placement by counselor assessment. One high school elective credit may be granted for successful completion of this class. Open Entry/Open Exit.

**ABE 029****Academic Vocabulary for Science**

Credit(s): 0 Class Hours: 15 Lecture total.

Instructs and familiarizes entry-level students in academic vocabulary for science courses. Prepares students to take high school subjects in science, job training, GED Preparation, or college credit classes. Recommended for Intermediate ESL 2 students or above and/or placement by counselor assessment. One high school elective credit may be granted for successful completion of this class. Open Entry/Open Exit.

**ABE 030****Academic Vocabulary for Social Studies**

Credit(s): 0 Class Hours: 15 Lecture total.

Instructs and familiarizes entry-level students in academic vocabulary for courses in social studies. Prepares students to take high school subjects in social studies, job training, GED Preparation, or college credit classes. Recommended for Intermediate ESL 2 students or above and/or placement by counselor assessment. One high school elective credit may be granted for successful completion of this class. Open Entry/Open Exit.

**ABE 031****Academic Vocabulary for Technology**

Credit(s): 0 Class Hours: 15 Lecture total.

Instructs and familiarizes entry-level students in academic vocabulary for technology courses. Prepares students to take high school subjects using technology, job training, GED Preparation, or college credit classes. Recommended for Intermediate ESL 2 students or above and/or placement by counselor assessment. One high school elective credit may be granted for successful completion of this class. Open Entry/Open Exit.

**ABE 044****Leadership Basics Part 1**

Credit(s): 0 Class Hours: 72 Lecture total.

Provides the first of a two-part leadership course in which students apply leadership techniques in the workplace, home, school, and the community. Students will increase their mastery of basic skills through intensive, interactive, student-centered activities. The course requires participation in the four areas of language acquisition: reading, writing, listening, and speaking. Recommended for ABE and ESL Intermediate 1, 2, or 3 or above students. Open Entry/Open Exit.

**ABE 046****Attitudes for Success**

Credit(s): 0 Class Hours: 72 Lecture total.

Provides students with classroom discussion and information about attitudes and behaviors that influence success in their personal, educational and career development.

**ABE 111****Spanish Literacy for Adults**

Credit(s): 0      Class Hours: 480 Lecture total.

Assists native Spanish-speaking students in acquiring literacy in Spanish in order to facilitate the transition to beginning ESL, ABE and high school equivalency courses. Focuses on basic reading and writing skills, including phonics decoding and encoding skills, as well as classroom, parenting and community coping skills. Recommended for non-literate native speakers of Spanish. Taught in Spanish. Open Entry/Open Exit.

**ABE 112****Beginning Spanish Literacy**

Credit(s): 0      Class Hours: 160 Lecture total.

Assists students in acquiring literacy skills in Spanish to facilitate their transition to Intermediate Spanish Literacy, ESL, ABE, high school diploma, and high school equivalency courses. Focuses on phonetic decoding and encoding skills, basic reading and writing skills, as well as classroom, parenting and community coping skills. Taught in Spanish. Open entry/open exit. Open Entry/Open Exit.

**ABE 113****Intermediate Spanish Literacy**

Credit(s): 0      Class Hours: 160 Lecture total.

Assists students in acquiring literacy in Spanish to facilitate the transition to Advanced Spanish Literacy, ESL and ABE equivalency courses. Focuses on basic reading and writing skills, including phonics decoding and encoding skills, as well as classroom, parenting and community coping skills. Taught in Spanish. Open entry/open exit. Open Entry/Open Exit.

**ABE 114****Advanced Spanish Literacy**

Credit(s): 0      Class Hours: 160 Lecture total.

Assists students in acquiring literacy in Spanish in order to facilitate the transition to ESL, ABE, high school diploma, and high school equivalency courses. Focuses on higher level reading and writing skills, including history and mathematics. Taught in Spanish. Open entry/open exit. Open Entry/Open Exit.

**ABE 137****Topics in Adult Basic Education**

Credit(s): 0-5      Class Hours: 3-216 Lecture total.

A specialized course on topics related to current needs of Adult Basic Education students. Open Entry/Open Exit.

**Citizenship (CTZN)****CTZN 020****Citizenship**

Credit(s): 0      Class Hours: 72 Lecture total.

Provides basic knowledge and preparation for the United States citizenship process and naturalization test including language usage within the context of American history, government, and civics. Open Entry/Open Exit.

**Counseling (CNSL)****CNSL 303****Educational & Career Assessment**

Credit(s): 0      Class Hours: 3 Lecture total.

Assists students with appropriate educational placement and/or an overview of student services, career and academic guidance information that is available in Continuing Education as a result of individual and group testing. Open Entry/Open Exit.

**CNSL 305****Orientation to College**

Credit(s): 0      Class Hours: 8 Lecture total.

Introduces college services and programs. Identifies and explores programs and services designed to assist students entering college credit courses. 1.5 credits may be awarded. (Same as HSS770). Open Entry/Open Exit.

**English As A Second Language (ESL)****ESL 120****ESL Civics**

Credit(s): 0      Class Hours: 144 Lecture total.

Provides development in listening, speaking, reading, and writing English within the context of history and government in preparation for the United States Citizenship examination. Recommended for students in Beginning ESL 3 and above. Open Entry/Open Exit.

**ESL 130****Topics in English As a Second Language**

Credit(s): 0      Class Hours: 4-216 Lecture total.

A specialized course on topics related to current needs of English as a Second Language students. Open Entry/Open Exit.

**ESL 300****Literacy**

Credit(s): 0      Class Hours: 216 Lecture total.

The first of seven integrated ESL core courses. This is an ESL class for students who are not yet literate in English. Emphasizes communicative competence and basic functional language skills to meet immediate communication needs, including verbal and nonverbal strategies. Develops the ability of second language learners to recognize and read letters and numbers, copy and produce the alphabet, numerals, and simple personal information. Open Entry/Open Exit.

**ESL 301****Beginning Low**

Credit(s): 0      Class Hours: 216 Lecture total.

The second of seven integrated ESL core courses. For students with some literacy in English. Emphasizes language skills in everyday situations and immediate needs of adult English learners, focusing on listening comprehension and beginning oral production of simple conversations, reading of practiced words and phrases, and completing simple writing tasks in the context of school, work and community. Open Entry/Open Exit.

**ESL 302****Beginning High**

Credit(s): 0      Class Hours: 216 Lecture total.

The third of seven integrated ESL core courses. Emphasizes comprehending and participating in simple conversations, communicating survival needs, and reading and performing written tasks in the context of college and career readiness and civic participation. Open Entry/Open Exit.

**ESL 303****Intermediate Low**

Credit(s): 0      Class Hours: 216 Lecture total.

The fourth of seven integrated ESL core courses. Emphasizes comprehending and participating in conversations, communicating needs and opinions, reading from academic and informational text, and performing written tasks. Exposes students to authentic spoken and written content, to prepare students for college, the workplace, and civic participation. Open Entry/Open Exit.

**ESL 304****Intermediate High**

Credit(s): 0      Class Hours: 216 Lecture total.

The fifth of seven integrated ESL core courses. Emphasizes expanding oral language, critical and creative thinking skills in English, and reading comprehension of authentic academic and informational text. Written tasks focus on academic and workforce preparation, as well as increased community and civic participation. Five high school elective credits may be granted. Open Entry/Open Exit.

**ESL 305****Advanced Low**

Credit(s): 0      Class Hours: 216 Lecture total.

The sixth of seven integrated ESL core courses. Emphasizes higher-level language skills, reading passages with increased understanding and analysis, and improving academic and informational writing skills. Prepares students for academic and workforce success and increased civic participation. Five high school elective credits may be granted. Open-entry/open-exit. Open Entry/Open Exit.

**ESL 306****Advanced High**

Credit(s): 0      Class Hours: 216 Lecture total.

The seventh of seven integrated ESL core courses. Prepares students for academic and workforce success and civic participation. Emphasizes high-level language skills, conversations that convey complex thought patterns, and reading and writing strategies. This course uses authentic academic, informational and technical reading materials that expand the use of creative and critical thinking skills. Five high school elective credits may be granted. Open Entry/Open Exit.

**ESL 392****Writing & Computers: Developing a School Publication**

Credit(s): 0      Class Hours: 72 Lecture total.

Offers writing strategies for students in developing a student publication. Computers and the Internet are used to develop and research for publication. Students will work in teams on different sections of the publication. Recommended for students in Beginning ESL 3 or above. Open Entry/Open Exit.

**ESL 398****ESL Community Learning Center**

Credit(s): 0      Class Hours: 72 Lecture total.

This course provides English language learners of all levels the opportunity to improve their language skills, while increasing knowledge of civics, citizenship, and computer literacy, through individualized and small group instruction. Computer software and web-based instructional programs are used to instruct, support, and enhance student learning. Open Entry/Open Exit.

**ESL 488****Basic Writing**

Credit(s): 0      Class Hours: 72 Lecture total.

Introduce non-native English speakers to basic sentence structure and the writing process, focusing on writing cohesive simple paragraphs. This course is designed for basic writers. Students will produce a writing sample. Open Entry/Open Exit.

**ESL 489****Intermediate Writing**

Credit(s): 0      Class Hours: 72 Lecture total.

Recommended Preparation: ESL 488, Basic Writing or equivalent

Introduces non-native English speakers with intermediate writing skills to advanced sentence structures and writing strategies, focusing on strong paragraphs with logical development in a variety of organizational styles. Students will produce a writing sample. Open Entry/Open Exit.

**ESL 490****Advanced Writing & Grammar**

Credit(s): 0      Class Hours: 72 Lecture total.

This course will strengthen writing and grammar skills with a focus on advanced grammar and sentence combining strategies. Paragraph writing is emphasized. Recommended completion of Intermediate ESL 3 or equivalent. Five high school elective credits may be granted. Open Entry/Open Exit.

**ESL 491****Advanced Writing & Grammar Review**

Credit(s): 0      Class Hours: 72 Lecture total.

Provides intensive review and practice of writing strategies and basic grammar. Concentrates on paragraph writing along with verb tenses, adjective, noun and adverb clauses. Recommended completion of Intermediate ESL 3 or equivalent. Five high school elective credits may be granted if student passes the posttest for this class with 70% or better. Open Entry/Open Exit.

**ESL 510****VESL: English for Work 1**

Credit(s): 0      Class Hours: 216 Lecture total.

Prepares beginning level non-native English-speaking students to enter the workforce for general or specific occupations. Focuses on workplace communication, work-related vocabulary skills, job applications and postings, workplace safety and issues, and vocational readings with emphasis on verbal communication through basic language skills instruction. Open Entry/Open Exit.

**ESL 520****VESL: English for Work 2**

Credit(s): 0      Class Hours: 216 Lecture total.

Recommended Preparation: ESL 510, VESL: English for Work 1

Prepares intermediate and advanced level non-native English speaking students to enter the workforce or a CTE/vocational program. Focuses on communicating in the workplace, job safety, work-related vocabulary skills, workplace culture/issues, career pathways and vocational readings with emphasis on verbal communication through intermediate/advanced language skills instruction. Recommended for students in Intermediate 1 or higher. Open Entry/Open Exit.

**ESL 530****American English Pronunciation**

Credit(s): 0      Class Hours: 216 Lecture total.

Develops English language fluency, and productive and receptive skills as they relate to sound discrimination, sound inventory, stress, intonation, linking, prominence, and rhythm. The course aims to help students understand English and be understood while functioning within employment, survival and academic contexts. This course is recommended for Beginning ESL 3 students and above. Open Entry/Open Exit.

**ESL 570****Conversation 1**

Credit(s): 0      Class Hours: 72 Lecture total.

Introduces conversational strategies in listening, language use, and non-verbal communication. Presents oral skills necessary in initiating, maintaining and closing conversations. Emphasis on oral skills that assist in social interactions and expand listening and speaking skills. This course is recommended for Beginning ESL 3 and Intermediate ESL 1 students. Open Entry/Open Exit.

**ESL 580****Conversation 2**

Credit(s): 0      Class Hours: 72 Lecture total.

Introduces advanced conversational strategies in listening, language use, and nonverbal communication. Presents oral expressions necessary to enhance conversation and listening skills. Emphasizes differences between formal and colloquial language, based on American attitudes and culture. Recommended for Intermediate ESL 2 and Intermediate ESL 3 students. Open Entry/Open Exit.

**ESL 610****Grammar for Better Writing I**

Credit(s): 0      Class Hours: 54 Lecture total.

*Prerequisite: Qualifying profile from ESL/EMLS placement process.*

Recommended Preparation: Concurrent enrollment in ESL 612 is recommended.

Sentence refining course for multilingual students who can speak English but often make grammar mistakes when writing. Basic grammar including verb tenses, verbals, modals, nouns, pronouns, compound and complex sentences. Revision and editing. Ten high school elective credits will be awarded if the student passes the class. Open Entry/Open Exit.

**ESL 611****Grammar for Better Writing II**

Credit(s): 0      Class Hours: 54 Lecture total.

*Prerequisite: EMLS 103 with a minimum grade of C or qualifying profile from ESL/EMLS placement test.*

Recommended Preparation: Concurrent enrollment in ESL 613 is highly recommended.

Sentence refining course for bilingual students who can speak English but often make grammar mistakes when writing. Grammar focus is on sentence level accuracy, including transitions, the passive voice and multi-clause sentences. Revision and editing. Ten high school elective credits will be awarded if the student passes the class. Open Entry/Open Exit.

**ESL 612****College Reading and Writing I**

Credit(s): 0      Class Hours: 90 Lecture total.

*Prerequisite: Qualifying profile from ESL/EMLS placement process.*

Recommended Preparation: Taking ESL 610 or prior to ESL 612 is highly recommended.

Reading and paragraph-level writing course for bilingual students who need to develop skills in reading academic material and writing academic paragraphs. Emphasis on connection between reading and writing, responding to reading critically, following the writing process and editing. Fifteen high school elective credits will be awarded if the student passes the class. Open Entry/Open Exit.

**ESL 613****College Reading and Writing II**

Credit(s): 0      Class Hours: 90 Lecture total.

*Prerequisite: EMLS 104 with a minimum grade of C or qualifying profile from ESL/EMLS placement process.*

Recommended Preparation: Taking ESL 611 concurrently or prior to ESL 613 is highly recommended.

Reading and short essay-level writing course for bilingual students who need to improve skills in reading academic material and writing academic essays. Emphasis on connection between reading and writing, responding to reading critically, following the writing process and editing. Fifteen high school elective credits will be awarded if the student passes the class. Open Entry/Open Exit.

**ESL 704****Academic Beginning A**

Credit(s): 0      Class Hours: 216 Class Lecture total.

First course of the academic ESL track program developing academic skills through reading short multi-sentence paragraphs supported by visual clues, writing simple sentences on one topic, grammar, listening, and speaking skills with short informational passages. Open Entry/Open Exit.

**ESL 705****Academic Beginning B**

Credit(s): 0      Class Hours: 216 Lecture total.

Second course of the academic ESL track program developing academic skills through reading multi-paragraph authentic and adapted texts, writing short loosely organized paragraphs from a prompt, grammar, listening, and speaking skills with short informational and narrative passages. Five high school elective credits may be granted if student passes the course. Open Entry/Open Exit.



**ESL 706****Academic Intermediate A**

Credit(s): 0      Class Hours: 216 Lecture total.

Third course of the academic ESL Track program developing academic skills through reading one-page multi-paragraph authentic or adapted text, writing well-developed paragraphs, grammar, listening, and speaking skills with short informational and narrative passages. Five high school elective credits may be granted if student passes the course successfully. Open Entry/Open Exit.

**ESL 707****Academic Intermediate B**

Credit(s): 0      Class Hours: 216 Lecture total.

Fourth course of the academic ESL Track program developing academic skills through reading two-page authentic texts, writing expository essays, grammar, speaking, and listening skills with short lectures or speeches on familiar and academic topics. Five high school elective credits may be granted if student passes the course successfully. Open Entry/Open Exit.

**ESL 720****ESL Transition to College Class**

Credit(s): 0      Class Hours: 72 Lecture total.

This noncredit course prepares students for transition to Santa Ana College by developing language skills, critical reasoning and thinking, academic study skills and student success strategies. Completion of Intermediate ESL 3 or equivalent is recommended. Five high school elective credits may be granted for successful completion of the class. Open entry/open exit.

**High School Subjects - ARTS (HSART)****HSART 601****Music Theory 1**

Credit(s): 5.0      Class Hours: 72 Lecture total.

This class provides a beginning level music course that introduces students to the vocabulary and basic principles of music. The primary emphasis will be on rhythm, pitch, and notation. Open Entry/Open Exit.

**HSART 828****Understanding America Through Art**

Credit(s): 5.0      Class Hours: 72 Lecture total.

Provides an overview of American civilization through arts and crafts from the colonial period through the 20th century, including periods and artistry in their historical context. Open Entry/Open Exit.

**HSART 837****The Film As Art**

Credit(s): 5.0      Class Hours: 72 Lecture total.

Traces the history of film from the recording of a single event through the silent film era to current classic films, and identifies the ways films reflect the values of American culture. Culminates in the use of classic and contemporary literature as a basis for modern film. Open Entry/Open Exit.

**High School Subjects - English (HSENG)****HSENG 040****California High School Exit Exam Language Arts Preparation**

Credit(s): 5.0      Class Hours: 72 Lecture total.

Provides students with an overview of the California State Standards that are tested on the California High School Exit Exam and affords students the opportunity to gain the knowledge and skills necessary to pass the Language Arts portion of the exam. Open Entry/Open Exit.

**HSENG 065****English Fundamentals 1**

Credit(s): 5.0      Class Hours: 72 Lecture total.

Introduces students to basic concepts and skills of building vocabulary, grammar, parts of speech, writing sentences, and paragraphs. Open Entry/Open Exit.

**HSENG 066****English Fundamentals 2**

Credit(s): 5.0      Class Hours: 72 Lecture total.

Reinforces and expands the basic concepts of sentence structure, vocabulary, grammar, parts of speech, and writing skills. Open Entry/Open Exit.

**HSENG 067****English Fundamentals 3**

Credit(s): 5.0      Class Hours: 72 Lecture total.

Provides an intermediate English course that expands upon vocabulary, parts of speech, and grammar to accelerate writing skills. Open Entry/Open Exit.

**HSENG 068****English Fundamentals 4**

Credit(s): 5.0      Class Hours: 72 Lecture total.

Provides an advanced course in English vocabulary, grammar, parts of speech, writing skills, and general proficiency in the English language, both written and spoken. Open Entry/Open Exit.

**HSENG 070****The Short Story**

Credit(s): 5.0      Class Hours: 72 Lecture total.

Introduces the student to the short story as a literary form so that the student will learn how the individual elements work together to present a theme of effect. The student will study the development of the short story and will read selected short stories from various periods. Course cannot be challenged. Open Entry/Open Exit.

**HSENG 076****The Novel**

Credit(s): 5.0      Class Hours: 72 Lecture total.

Introduces the student to the novel as a literary form and how the individual elements work together to present a theme. The student will select 2 novels from an annotated reading list for independent study, completing Dialectical Journal entries. Open Entry/Open Exit.

**HSENG 083****Composition 1**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides instruction and practice in the communication of ideas in written form. Emphasis on mastery of sentence and paragraph skills, including organization in terms of unity, support, and coherence in an effective, well-supported, one page composition. Open Entry/Open Exit.

**HSENG 084****Composition 2**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Prepares the student to write well-conceived and well-executed two page essays. Meets the composition proficiency requirement. (Recommended for students who have completed Composition 1 or equivalent.). Open Entry/Open Exit.

**HSENG 085****Composition 3**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Prepares college bound students with advanced writing assignments that require in-depth research culminating in the production of two argumentative essays and a 1500 word final argumentative research paper. (Recommended for students who have completed Composition 2 or equivalent.). Open Entry/Open Exit.

**HSENG 096****Building Vocabulary 1**

Credit(s): 5.0 Class Hours: 72 Lecture total.

A basic vocabulary course that provides practice in using context clues to develop vocabulary, and includes practice in synonyms, antonyms, matching words with meaning, adding words to readings, and sentence writing. Open Entry/Open Exit.

**HSENG 097****Building Vocabulary 2**

Credit(s): 5.0 Class Hours: 72 Lecture total.

An intermediate vocabulary course that provides practice in using context clues to develop vocabulary and includes practice in synonyms, antonyms, matching words with meaning, adding words to readings, analogies, and sentence writing. Develops vocabulary skills needed to master state standardized tests. Open Entry/Open Exit.

**HSENG 098****Building Vocabulary 3**

Credit(s): 5.0 Class Hours: 72 Lecture total.

An advanced vocabulary course that provides practice in using context clues to develop vocabulary, and includes practice in synonyms, antonyms, matching words with meaning, adding words to readings, analogies, and sentence writing. Builds reading comprehension skills and creates a strong vocabulary foundation that enables students to be better readers, writers, thinkers, and test takers. Open Entry/Open Exit.

**HSENG 701****English 1**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with a course of study that focuses on the California State Standards and the Common Core Standards in English Language Arts for students in the first semester of the ninth grade year.

**HSENG 702****English 2**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with a course of study that focuses on the California State Standards and the Common Core Standards in English Language Arts for students in the second semester of the ninth grade year.

**HSENG 703****English 3**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with a course of study that focuses on the California State Standards and the Common Core Standards in English Language Arts for students in the first semester of the tenth grade year.

**HSENG 704****English 4**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with a course of study that focuses on the California State Standards and the Common Core Standards in English Language Arts for students in the second semester of the tenth grade year.

**HSENG 705****English 5**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with a course of study that focuses on the California State Standards and the Common Core Standards in English Language Arts for students in the first semester of the eleventh grade year.

**HSENG 706****English 6**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with a course of study that focuses on the California State Standards and the Common Core Standards in English Language Arts for students in the second semester of the eleventh grade year.

**HSENG 707****English 7**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with a course of study that focuses on the California State Standards and the Common Core Standards in English Language Arts for students in the first semester of the twelfth grade year.

**HSENG 708****English 8**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with a course of study that focuses on the California State Standards and the Common Core Standards in English Language Arts for students in the second semester of the twelfth grade year.

**High School Subjects - Math (HSMTH)****HSMTH 140****California High School Exit Exam Math Preparation**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with an overview of the California State Standards that are tested on the California High School Exit Exam and affords students the opportunity to gain the knowledge and skills necessary to pass the mathematics portion of the exam. Open Entry/Open Exit.

**HSMTH 151****Principles of Mathematics**

Credit(s): 5.0 Class Hours: 72 Lecture total.

This course consists of addition, subtraction, multiplication, division of whole numbers, fractions, and decimals. Other topics include percentages, geometry, unit conversions, and signed numbers. Open Entry/Open Exit.

**HSMTH 152****Pre-Algebra**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Introduction to variables, algebraic expressions, solving equations, inequalities, graphs, number and operation sense, estimation skills, and the ability to judge reasonableness of results will be strengthened in the context of practical applications and problem solving. Recommended for students who have completed Principles of Mathematics or equivalent. Open Entry/Open Exit.

**HSMTH 154****Pre Algebra A**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Covers language, symbolism, and fundamental operations skills required to prepare students for success in Algebra 1. Number and operation sense, estimation skills, and the ability to judge reasonableness of results will be strengthened in the context of practical applications and problem solving. (Recommended for students who have completed Math Fundamentals 2 or equivalent.) Open Entry/Open Exit.

**HSMTH 155****Pre Algebra B**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Covers language, symbolism, and fundamental operations skills required to prepare students for success in Algebra 1 and Geometry. Data analysis, spatial thinking, and the ability to judge reasonableness of results will be strengthened in the context of practical applications and problem solving. Recommended for students who have completed Pre-Algebra A or equivalent. Open Entry/Open Exit.

**HSMTH 158****Math Fundamentals 1**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides instruction in the four arithmetic operations of addition, subtraction, multiplication, and division of whole numbers and fractions and decimals. Provides learning activities including manipulative lessons which allow development and mastery of necessary skills. Open Entry/Open Exit.

**HSMTH 159****Math Fundamentals 2**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides instruction in the areas of decimals, percents, measurements, formulas, equations, ratios, and proportions. Provides learning activities which allow for remediation of difficulties and mastery of necessary skills. Recommended for students who have completed Math Fundamentals 1 or equivalent. Open Entry/Open Exit.

**HSMTH 163****Algebra 1A**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides instruction in sets, numbers, formulas, monomials, exponents, square root, the laws of the signs, binomials, and simultaneous equations. Recommended for students who have completed Math Fundamentals 2 or equivalent. Open Entry/Open Exit.

**HSMTH 164****Algebra 1B**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides instruction in algebra concepts, math vocabulary, and algebraic operations. This course is intended to be a bridge from basic arithmetic to elementary algebra. Open Entry/Open Exit.

**HSMTH 165****Algebra 2A**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with a course of study in: equations and inequalities; linear equations and functions; systems of linear equations and inequalities; matrices and determinants; quadratic functions; polynomials and polynomial functions; and powers, roots and radicals. Recommended for students who have completed ten credits in geometry or equivalent. Open Entry/Open Exit.

**HSMTH 166****Algebra 2B**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with a course of study that includes: exponential and logarithmic functions; rational equations and functions; quadratic relations and conic sections; sequences and series; probability and statistics; trigonometric ratios and functions; and trigonometric graphs. Recommended for students who have completed Algebra 2A or equivalent. Open Entry/Open Exit.

**HSMTH 167****Geometry A**

Credit(s): 5.0 Class Hours: 72 Lecture total.

This course covers topics in basic geometry, reasoning and proofs, perpendicular and parallel lines, congruent triangles, properties of triangles, and quadrilaterals. Recommended for students who have completed ten credits of algebra. Open Entry/Open Exit.

**HSMTH 168****Geometry B**

Credit(s): 5.0 Class Hours: 72 Lecture total.

This course covers topics in transformations, similarity, right triangles, trigonometry, circles, areas of polygons and circles, surface area and volume. Recommended for students who have completed Geometry A or equivalent. Open Entry/Open Exit.

**HSMTH 172****Basic Consumer Math 1A**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides a comprehensive review of arithmetic skills that apply to personal and vocational opportunities. Topics covered include whole numbers operations, customary and metric units, fractions, decimals, and percents. Skills are then applied to use in earning money, buying food, shopping for clothes, managing a household, buying and maintaining a car, and working with food. Open Entry/Open Exit.

**HSMTH 173****Basic Consumer Math 1B**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Students will use practical computational skills to solve common problems in a consumer's life including home improvements, traveling costs, budgeting household expenses, banking and investing, paying real estate and sales taxes, and preparing for careers. Open Entry/Open Exit.

**High School Subjects - OTHER (HSOTH)****HSOTH 740****Spanish 1**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with a beginning course in Spanish, emphasizing oral communication, vocabulary building, fundamental pronunciation, and grammar. Includes practice in reading and simple conversation and gives an introduction to Spanish-speaking people and their culture.

**HSOTH 742****Spanish 2**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with additional skills, concepts, grammar and vocabulary appropriate for a first year course in learning to speak and write Spanish.

**HSOTH 743****Spanish 3**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides a language integrated course designed to provide native Spanish speaking students with academic language proficiencies. Offers listening, speaking, reading, writing, and critical thinking, and vocabulary development. Writing as a process and literature will be emphasized.

**HSOTH 744****Spanish 4**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with additional skills, concepts, grammar and vocabulary appropriate for a second year course in learning to speak Spanish. (Recommended for those students who have completed Spanish 3 or equivalent.)

**High School Subjects - Reading (HSRDG)****HSRDG 089****Reading Proficiency Development**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Enables students to become proficient in practical, content and reference skills as well as to improve general comprehension and vocabulary skills. This course is in preparation for the reading proficiency examination. Open Entry/Open Exit.

**HSRDG 093****Building Reading Skills 1**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides an opportunity for skill development in word recognition, comprehension, study and content reading skills necessary for success in the High School Subjects program. Computer-aided instruction is included. Open Entry/Open Exit.

**HSRDG 094****Building Reading Skills 2**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides an opportunity for skill development in word recognition, general and inferential comprehension, critical thinking, and content reading skills necessary for success in the High School Subjects program. Computer-aided instruction is included. Open Entry/Open Exit.

**High School Subjects- Natural Sciences (HSSCI)****HSSCI 170****Biology 1A**

Credit(s): 5.0 Class Hours: 72 Lecture total.

This is an introductory course that provides a brief survey of major areas of biology including cell biology, genetics, and evolution. Open Entry/Open Exit.

**HSSCI 171****Biology 1B**

Credit(s): 5.0 Class Hours: 72 Lecture total.

This introductory course studies the diversity of non-living and living organisms such as viruses, bacteria, protists, fungi, plants and animals. Open Entry/Open Exit.

**HSSCI 185****Earth Science 2**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides instruction in the principles and concepts of earth science. The earth's processes and place in the universe will be examined. Open Entry/Open Exit.

**HSSCI 188****Earth Science 1**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides instruction in the principles and concepts of earth science. The earth's matter and features will be examined. Open Entry/Open Exit.

**HSSCI 190****Physical Science 1**

Credit(s): 5.0 Class Hours: 72 Lecture total.

An introductory course designed to allow students to explore the basic concepts of physical science. Basic elements of chemistry will be covered. Open Entry/Open Exit.

**HSSCI 191****Physical Science 2**

Credit(s): 5.0 Class Hours: 72 Lecture total.

An introductory course designed to allow students to explore the basic concepts of physical science. Basic elements of physics will be covered. Open Entry/Open Exit.

## **HSSCI 192**

### **Basic Science 1**

Credit(s): 5.0 Class Hours: 72 Lecture total.

This course offers students an introduction to the sciences. Science is explained in a way that is understandable to beginning students. Students taking this course will learn how science is all around us and can be found to affect our everyday life. In this course, students will learn about the different types of sciences: life, physical, earth and space. Open Entry/Open Exit.

## **HSSCI 196**

### **Health Science**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides a basic foundation in personal health, nutrition, body functions, first aid and community health. Open Entry/Open Exit.

## **HSSCI 197**

### **Human Anatomy & Physiology I**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with a first semester course concentrating on anatomical terminology, body directions, and the following systems: tissues, integumentary (skin), skeletal, nervous, and special senses. Diverse learning activities are used in the classroom to develop a variety of skills. Open Entry/Open Exit.

## **HSSCI 198**

### **Human Anatomy and Physiology II**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with a second semester course concentrating on anatomical terminology, body directions, and the following systems: muscular, cardio-vascular, lymphatic, respiratory, digestive, urinary, and reproductive. Diverse learning activities are used in the classroom to develop a variety of skills. Open Entry/Open Exit.

## **High School Subjects - Social Sciences (HSSOC)**

### **HSSOC 215**

#### **Introduction to Economics**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Introduces the basic concepts of economics. Explores the basic questions of every economic system. Examines money, the role of consumers, workers, businesses, and governments. Open Entry/Open Exit.

### **HSSOC 218**

#### **U.S. History 1: Colonization to Industrialization**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Surveys events, movements, and personalities in the United States history from the colonial period through reconstruction, westward expansion, and industrialization. Includes immigration, the plight of Native and African Americans, reform movements, and geographical influences in the history of the United States. Open Entry/Open Exit.

### **HSSOC 219**

#### **U.S. History 2: The Shaping of Modern America**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Examines United States history from the beginning of industrialization to present. Emphasizes the emergence of America on the international, economic, geographical, social and political scene. Open Entry/Open Exit.

## **HSSOC 221**

### **Psychology**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with knowledge of the basic principles of psychoanalysis, behaviorism, the interpersonal model, humanism, existentialism and phenomenology as well as other concepts applied to the self. Open Entry/Open Exit.

## **HSSOC 222**

### **Government 1: U.S. Federal Government and Politics**

Credit(s): 5.0 Class Hours: 72 Lecture total.

This course in United States government and politics covers the Constitution and foundations of government, political behavior and participation, institutions of national government, civil liberties and civil rights and public policy and comparative government. Open Entry/Open Exit.

## **HSSOC 224**

### **World Geography 1A**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides a basic foundation for understanding physical geography and the cultural and economic variables in the relationship with the earth and its history. Introduces Northern America, Latin America, Europe, and Russia. Includes geography skills such as map reading, interpretation of graphs and diagrams, and map identification. Open Entry/Open Exit.

## **HSSOC 225**

### **World Geography 1B**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides an overview of certain areas of the world in terms of their physical, cultural, historical and economic geography. Introduces North Africa, the Middle East, Africa south of the Sahara, the Asian Region, and the Pacific World. Includes geography skills such as map reading, interpreting graphs, and analyzing data from a chart. Open Entry/Open Exit.

## **HSSOC 228**

### **World History**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Offers the student a chronological understanding of world history in a sequence of events from the time before hominids became fully human, to the introduction to the new millennium. Addresses culture and geography in the context of world history. Open Entry/Open Exit.

## **HSSOC 231**

### **Modern World History 1**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with a study of the major events that shaped the modern world, from the eighteenth century through the First World War. Students will trace the rise of democratic ideas and develop an understanding of the historical roots of current world issues. Open Entry/Open Exit.

## **HSSOC 232**

### **Modern World History 2**

Credit(s): 5.0 Class Hours: 72 Lecture total.

Provides students with a study of the major events that shaped the modern world, from the end of the First World War to the present. Students will develop an understanding of current world issues and relate them to their historical, geographic, political, economic and cultural contexts. Students consider multiple accounts of events in order to understand international relations from a variety of perspectives. Open Entry/Open Exit.

**High School Subjects (HSS)****HSS 010****Learning Skills & Strategies**Credit(s): 5.0    Class Hours: 72 Lecture total.

Provides individualized instruction to improve learning strategies and basic reading, writing, and mathematics skills. Prepares adults who have verified learning disabilities to successfully meet educational and vocational goals. Recommended for students who meet eligibility requirements for D.S.P.S. services. Open Entry/Open Exit.

**HSS 031****High School Equivalency Test Preparation**Credit(s): 0    Class Hours: 360 Lecture total.

Provides pre- and post-testing and individualized prescriptive instruction in preparation for a High School equivalency exam. Covers test-taking strategies and the essentials of reading, writing, mathematics, science, and social studies. Open Entry/Open Exit.

**HSS 032****HS Subjects Individualized Instruction**Credit(s): 0    Class Hours: 72 Lecture total.

Individualized delivery for the Adult High School Diploma Program. Designed for the adult who wants a high school diploma. Self-paced with offerings in the areas of English communication, mathematics, science, social studies, fine arts/foreign language, life skills, and electives. Recommended 8th grade equivalency on TABE. Open Entry/Open Exit.

**HSS 090****Leadership Basics, Part 1**Credit(s): 5.0    Class Hours: 72 Lecture total.

Introduces useful leadership skills. Students will increase their mastery of basic skills through intensive, interactive, student-centered activities designed to give hands-on training and experience in aspects of directing and facilitating a conference. This is the first of a two-part leadership course in which students apply leadership techniques in the workplace, home, school, and the community. Five high school elective credits may be given for completing either ABE 044 or HSS 090 if the student achieves the attendance and proficiency requirements to pass the class. Open Entry/Open Exit.

**HSS 092****Leadership Basics, Part 2**Credit(s): 5.0    Class Hours: 72 Lecture total.

Students will increase their mastery of basic skills through intensive, interactive, student-centered activities designed to give hands-on training and experience in aspects of directing and facilitating a conference. This is the second of a two-part leadership course in which students apply leadership techniques in the workplace, home, school, and the community. Five high school elective credits may be given for completing either ABE 018 or HSS 092 if the student achieves the attendance and proficiency requirements to pass the class. Open Entry/Open Exit.

**HSS 095****Basic Skills Supervised Tutoring**Credit(s): 0    Class Hours: 1-72 Lecture total.

Supervised individual and small group tutoring to assist students in the basic skills of reading, writing, and mathematics for students enrolled at Santa Ana College School of Continuing Education and/or Santa Ana College course(s) for which tutoring is requested. Referral by counselor or instructor based on assessed academic need. Open Entry/Open Exit.

**HSS 144****Topics in High School Subjects**Credit(s): 5.0    Class Hours: 72 Lecture total.

Varies according to topic. Specialized courses on topics related to the needs of students in High School Subjects. Open Entry/Open Exit.

**HSS 221****Study Skills 1**Credit(s): 5.0    Class Hours: 72 Lecture total.

Develops student's study and test preparation skills. Introductory instruction in basic study skills, organizational skills, goal setting, note taking, report writing, time management, test preparation, learning styles, effective communication skills. Provides learning opportunities for students to develop and master effective study skills for successful academic career achievement. Open Entry/Open Exit.

**HSS 222****Study Skills 2**Credit(s): 5.0    Class Hours: 72 Lecture total.

Develops the student's study and test preparation skills. Second semester instruction in basic study skills, organizational skills, goal setting, note taking, report writing, time management, test preparation, learning styles, effective communication, and stress management skills. Provides learning opportunities for students to develop and master effective study skills for successful academic and career achievement. Open Entry/Open Exit.

**HSS 229****Skills for Success**Credit(s): 5.0    Class Hours: 72 Lecture total.

Assists students in developing skills that promote academic success. Students will learn study and organizational skills, goal setting, critical thinking skills, and written/oral communication. Compensatory strategies and technology will be emphasized. Open Entry/Open Exit.

**HSS 770****Orientation to College**Credit(s): 1.5    Class Hours: 8 Lecture total.

Introduces college services and programs. Identifies and explores programs and services designed to assist students entering college credit courses. Open Entry/Open Exit.

**Health & Safety (SAFE)****SAFE 875****First Aid**Credit(s): 0    Class Hours: 15 Lecture total.

Provides students with general knowledge of basic first aid and CPR procedures. Open Entry/Open Exit.

**SAFE 877****Health Issues & Concepts**

Credit(s): 0      Class Hours: 72 Lecture total.

Provides a basic foundation in the issues and concepts of mental health, family and social health, the stages in the life cycle, medicine and drugs, and diseases and disorder. May earn five high school elective credits if student completes all the required assignments with a minimum passing grade of 75%. Open Entry/Open Exit.

**Home Economics (HOMEC)****HOMEC 520****HSS Consumer Education**

Credit(s): 0.5 - 7.5      Class Hours: 24-360 Lecture total.

Prepares students in the rigors of understanding consumerism in the free world market area today. Topics include banking, credit, financial planning, insurance, money management, employment, real estate and housing, taxes, and other consumer interests. Open Entry/Open Exit.

**Learning Support (LRN)****LRN 084****Composition 2**

Credit(s): 5.0      Class Hours: 72 Lecture total.

Prepares the student to write well-conceived and well-executed five paragraph essays, expository paragraph writing emphasizing various methods including argumentation, reading analysis, and research. Practice in refining sentence skills and grammar. A minimum grade of B (80%) in LRN 84 will serve as a prerequisite to English 101 without a Placement Exam. Meets the composition proficiency requirement. Open Entry/Open Exit.

**LRN 095****Supervised Tutoring**

Credit(s): 0      Class Hours: 1-72 Lecture total.

Supervised individual and small group tutoring to assist students in reading, writing, mathematics, science, business and software applications for students enrolled at Santa Ana College School of Continuing Education and or Santa Ana College course(s) for which tutoring is requested. Referral by counselor or instructor based on assessed academic need. Open Entry/Open Exit.

**LRN 164****Introductory Algebra**

Credit(s): 5.0      Class Hours: 72 Lecture total.

Provides instruction in basic algebra concepts, math vocabulary, and algebraic operations. This course is intended to be a bridge from basic arithmetic to elementary algebra. Open Entry/Open Exit.

**LRN 750****Intensive Writing and Grammar**

Credit(s): 5.0      Class Hours: 72 Lecture total.

Provides intensive review and practice of writing strategies and advanced grammar. Concentrates on the writing process and development of various essay types along with verb tenses, adjective, noun, and adverb clauses. Recommended completion of ESL 707, HS English 067 and 068 or equivalent with a minimum passing grade. Open Entry/Open Exit.

**Older Adults (OAP)****OAP 457****Music Arts for Older Adults**

Credit(s): 0      Class Hours: 72 Lecture total.

Provides a positive framework for developing and enhancing music appreciation, vocal and instrumental skill. Emphasis will be on activities designed to encourage creative expression. Open Entry/Open Exit.

**OAP 518****Creative Cooking for Older Adults**

Credit(s): 0      Class Hours: 72 Lecture total.

Designed to enhance awareness of current cooking techniques. Demonstrations and lectures include information on basic nutrition and consumer awareness. A variety of cooking appliances and methods are utilized. Open Entry/Open Exit.

**OAP 802****Seminar for Older Adults**

Credit(s): 0      Class Hours: 72 Lecture total.

Provides information and a discussion forum related to the examination of concerns common to older adults. Discovers specific needs and interests and examines current news events as interpreted through historical background and current political/regional developments and changes. Open Entry/Open Exit.

**OAP 823****Manipulative Skills for Older Adults**

Credit(s): 0      Class Hours: 72 Lecture total.

Concentrates on maintenance and improvement of motor skills through utilization of a variety of art media and techniques. Provides opportunities for analysis and decision making skills while exercising basic manipulative skills. Open Entry/Open Exit.

**OAP 894****Physical Fitness for Older Adults**

Credit(s): 0      Class Hours: 72 Lecture total.

Teaches movement exercises designed to improve or maintain flexibility, strength, endurance and cardiovascular and respiratory functions. Emphasizes motor movements, hand-eye coordination, body space awareness, balance training, reaction time, joint protection, and relaxation techniques. Open Entry/Open Exit.

**Parent Education (PRNT)****PRNT 527****Pre-Kindergarten**

Credit(s): 0      Class Hours: 132 Lecture total.

Provides the opportunity for parents and others to learn the importance of providing appropriate early childhood experiences and preparing children for a successful kindergarten experience. Topics include school readiness, how to transform children's everyday world into an exciting learning environment, and how to stay positively involved in children's education. Open Entry/Open Exit.

**PRNT 528****Increasing Parent Awareness of U.S. Schools**

Credit(s): 0      Class Hours: 132 Lecture total.

Develops awareness of school systems in the United States. Introduces content standards and expectancies for different grade levels. Includes teaching and learning processes, strategies to support school children at home, pre-collegiate preparation of children, and college options. Open Entry/Open Exit.

**PRNT 557****Early Childhood Education: Principles And Practices**

Credit(s): 0      Class Hours: 96 Lecture total.

Bilingual (Spanish/English) course designed to introduce Spanish speaking students who are considering a career as teachers or aides to the scope of early childhood education. This class meets state licensing requirements for aides and limited-English caregivers in Early Childhood Education programs. May award five elective credits. Open entry/open exit (same as Human Development 070).

**PRNT 558****Early Childhood Care and Development For Family Child Care Providers**

Credit(s): 0      Class Hours: 56 Lecture total.

Provides knowledge about the care and development of young children for family child care providers seeking state licensing. Open Entry/Open Exit.

**PRNT 562****Health Education for Family Child Care Providers**

Credit(s): 0      Class Hours: 24 Lecture total.

Provides family child care providers with health and safety information related to licensing. Open Entry/Open Exit.

**Secondary Subjects GED (HSGED)****HSGED 031****GED Test Preparation**

Credit(s): 0      Class Hours: 360 Lecture total.

Provides pre- and post-testing and individualized prescriptive instruction in preparation for the GED test. Covers test-taking strategies and the fundamentals of social studies, mathematics, science, writing, and reading. Open Entry/Open Exit.

**Substantial Disabilities (SSD)****SSD 350****Signing Exact English for Parents of Deaf Children**

Credit(s): 0      Class Hours: 50-60 Lecture total.

Designed as an introductory course to teach Signing Exact English and the manual alphabet. Open Entry/Open Exit.

**SSD 400****Developmentally Disabled Adults Job Coach Training**

Credit(s): 0      Class Hours: 180-244 Lecture total.

Students will develop knowledge of and acquire the necessary skills to assist developmentally disabled clients in their daily lives. Open Entry/Open Exit. Open Entry/Open Exit.

**SSD 495****Personal Development & Grooming for Developmentally Disabled Adults**

Credit(s): 0      Class Hours: 65-95 Lecture total.

Provide adults with developmental disabilities tools to learn and practice positive interpersonal skills, appropriate social interaction and daily personal grooming habits. Open Entry/Open Exit.

**SSD 788****Independent Living Skills for Adults With Developmental Disabilities**

Credit(s): 0      Class Hours: 180 Lecture total.

Assists adults with developmental disabilities to attain a higher functional level for independent living in these areas: health and nutrition, personal appearance, communication, manners, money management, safety and consumer awareness, transportation, social interaction and practical reading, writing and math skills related to home and community settings. Open Entry/Open Exit.

**SSD 792****Handicapped Adults Topics**

Credit(s): 0      Class Hours: 72-216 Lecture total.

Specialized course on topics related to the needs of students in Handicapped Education. Open Entry/Open Exit.

**Vocational - Business (VBUS)****VBUS 118****Introduction to Windows**

Credit(s): 0      Class Hours: 60 Lecture total.

Recommended Preparation: VBUS 259 Orientation to Computers  
Provides students with a complete introduction to Microsoft's new operating system and basic computer concepts to ensure students develop the skills they need to effectively use a computer. The beginning of the course focuses on skills and tools that students will use every day, aiding productivity in school and at work. These features include starting and properly shutting down the computer, logging in, using a mouse, navigating the desktop, program controls, working with menus, using the taskbar, basic word processing, switching between apps, working with apps, using email, and email safety. As students advance in the course, file management and organization is reviewed where students save files and create folders both on the local PC and in the cloud. Microsoft's web browser, focusing on effective web searches, how to protect against internet threats, Outlook Online, Word Online, OneDrive, and how to manage setting and preferences within Windows are covered as well. Four high school elective credits may be awarded if a student completes and passes all the required assignments and final exam. Open Entry/Open Exit.

**VBUS 123****Introduction to Computer Software Applications**

Credit(s): 0      Class Hours: 72 Lecture total.

Provides introductory instruction on industry-standard computer applications such as MS Word, MS Excel, MS PowerPoint, MS Internet Explorer, MS Publisher, Adobe Photoshop, Adobe Illustrator, Adobe Flash, and others as well as skills such as keyboarding. May award five high school elective credits if student completes all the required assignments with a minimum passing grade of 75%. Open Entry/Open Exit.



### **VBUS 124**

#### **Introduction to Keyboarding I**

Credit(s): 0      Class Hours: 32 Lecture total.

Recommended Preparation: VBUS 259 Orientation to Computers

Provides introductory instruction for keyboarding by touch and skill building drills to achieve speed and accuracy. Emphasis is placed on proper posture, typing on a computer without looking at the keyboard, and using proper finger and hand placement. Two high school elective credits may be awarded if a student completes all the required assignments and passes the final exam. Open Entry/Open Exit.

### **VBUS 125**

#### **Introduction to Keyboarding II**

Credit(s): 0      Class Hours: 45 Lecture total.

Recommended Preparation: VBUS 124 Keyboarding I

Provides additional practice in keyboarding by touch through the production of business and academic documents and tables. All students learn Microsoft Word as they advance through the course. Extensive accuracy and speed development is offered. Three high school elective credits may be awarded if a student completes all the requirement assignments and passes the final exam. Open Entry/Open Exit.

### **VBUS 200**

#### **Topics in Career Technical Education**

Credit(s): 0      Class Hours: 72-216 Lecture total.

Varies according to topic. Specialized courses on topics related to the needs of students in the Business Skills program. Open Entry/Open Exit.

### **VBUS 243**

#### **Introduction to Customer Service Skills**

Credit(s): 0      Class Hours: 60 Lecture total.

Provides basic customer service training in: achieving high customer satisfaction; developing strong listening and communication skills; developing effective telephone skills; handling difficult customer situations; solving and preventing incidents and problems; working in a team; and minimizing stress and avoiding burnout. Four high school elective credits may be awarded if a student passes the course with a minimum grade of 70%. Open Entry/Open Exit.

### **VBUS 244**

#### **Introduction to Databases Using Microsoft Access**

Credit(s): 0      Class Hours: 60 Lecture total.

Recommended Preparation: VBUS 118 Introduction to Windows, VBUS 262 Introduction to Spreadsheets Using MS Excel

This course is an introduction to Microsoft Access – a database management system. Students will learn how to: design and use databases by creating tables, queries, forms and reports; create relationships between tables; and sort and filter data. Businesses use relational databases to manage their data. This course prepares students to understand and use Microsoft Access and databases in general, thereby assisting them in workforce preparation. Four high school elective credits may be awarded if a student completes and passes all the required assignments and final exam. Open Entry/Open Exit.

### **VBUS 245**

#### **Introduction to Desktop Publishing Using Microsoft Publisher**

Credit(s): 0      Class Hours: 60 Lecture total.

Recommended Preparation: VBUS 118 Introduction to Windows, VBUS 260 Introduction to Word Processing Using MS Word

This course introduces students to Microsoft Publisher which is a desktop software application. Students obtain the skills to create and produce publications such as flyers, newsletters, brochures, greeting cards, certificates, newsletters, invitations, and other printed publications. Four high school elective credits may be awarded if a student completes all the required assignments and passes the final exam. Open Entry/Open Exit.

### **VBUS 258**

#### **Navigating the Internet**

Credit(s): 0      Class Hours: 36 Lecture total.

Recommended Preparation: VBUS 259 Orientation to Computers

Provides students with a basic introduction to accessing and using the internet. Topics include basic internet terms and concepts, browsing the Web, searching the Web, and communicating online. Two high school elective credits may be awarded if a student completes and passes all the required assignments and final exam. Open Entry/Open Exit.

### **VBUS 259**

#### **Orientation to Computers**

Credit(s): 0      Class Hours: 60 Lecture total.

This course is designed to familiarize students with the fundamentals in computer hardware and software. It also introduces the Windows operating system, Microsoft Word application, email, and internet. Four high school elective credits may be awarded if student completes all the required assignments and passes the final exam. Open Entry/Open Exit.

### **VBUS 260**

#### **Introduction to Word Processing Using MS Word**

Credit(s): 0      Class Hours: 60 Lecture total.

Recommended Preparation: VBUS 259 Orientation to Computers

This course provides instruction in concepts and techniques of Microsoft Word. Students will learn procedures of creating, editing, and formatting office/business documents of varying complexities. They will create business letters and tables, use mail merge, illustrate documents with graphics, and more. Four high school elective credits may be awarded if a student completes and passes all the required assignments and final exam. Open Entry/Open Exit.

### **VBUS 262**

#### **Introduction to Spreadsheets Using MS Excel**

Credit(s): 0      Class Hours: 60 Lecture total.

Recommended Preparation: VBUS 118 Introduction to Windows

Provides students with instruction to spreadsheet concepts and software using Microsoft Office Excel. Students will learn how to create a worksheet, use formulas and functions, insert charts and tables, and more. Four high school elective credits may be awarded if a student completes all the required assignments and passes the final exam. Open Entry/Open Exit.

**VBUS 270****Introduction to Microsoft Outlook**

Credit(s): 0      Class Hours: 72 Lecture total.

Students will learn the basics to manage and organize emails, calendars and contact information. May award five high school elective credits if student completes all the required assignments with a minimum passing grade of 75%. Open Entry/Open Exit.

**VBUS 280****Accounting Terminology**

Credit(s): 0      Class Hours: 36 Lecture total.

This is a beginning accounting course designed for students with little or no accounting background. It introduces and provides an understanding of accounting terminology to prepare students for accounting occupations and accounting coursework. Open Entry/Open Exit.

**VBUS 290****Business Terminology**

Credit(s): 0      Class Hours: 48 Lecture total.

An introductory course to commonly used business terms with the intent of helping students develop a viable business vocabulary and how they can be effectively used in the workplace and for career advancement. Open Entry/Open Exit.

**VBUS 301****Business Skills**

Credit(s): 0      Class Hours: 288 Lecture total.

Includes keyboarding, filing, ten-key, spelling, written communications, Internet communications, accounting procedures and other related new business technology applications. Recommended for ESL Beginning 3 level or equivalent. Open Entry/Open Exit.

**VBUS 302****Introduction to Web Page Development Using HTML**

Credit(s): 0      Class Hours: 60 Lecture total.

Provides introductory instruction to web page development. Topics include web page design elements; HTML; graphic images, movie and sound formats; and testing pages on cross platforms. Designed for students who have completed a basic computer course or equivalent. Open Entry/Open Exit.

**VBUS 303****Introduction to Electronic Imaging Using Adobe Photoshop**

Credit(s): 0      Class Hours: 60 Lecture total.

Provides introductory instruction to electronic imaging using Adobe Photoshop software. Topics include beginning Photoshop features, scanner basics, image and file formats, color, importing/exporting of files, and printing. Designed for students who have completed a basic computer operations course or equivalent. Open Entry/Open Exit.

**VBUS 304****Introduction to Electronic Presentations Using Powerpoint**

Credit(s): 0      Class Hours: 60 Lecture total.

Recommended Preparation: VBUS 118 Introduction to Windows

Provides students with instruction on how to use PowerPoint features (e.g., templates, layouts, pictures, graphics, animation, multi-media assets) to create engaging presentations. Students will also discuss best practices for using PowerPoint as a visual aid for any presentation. Four high school elective credits may be awarded if a student completes all the required assignments and passes the final exam. Open Entry/Open Exit.

**VBUS 340****Career Exploration**

Credit(s): 0      Class Hours: 5 Lecture total.

This is a course designed to assist students in understanding opportunities available to them in different career and educational areas. Students will also learn about and be exposed to existing career technical education (CTE) pathways and how to successfully transition into a credit CTE program of study. Students will explore available occupations, careers, educational or training programs using a variety of available sources, such as interviews with business or college representatives, job shadowing, tours, guest speakers, and career and educational fairs/events. Open Entry/Open Exit.

**VBUS 400****Employability Skills**

Credit(s): 0      Class Hours: 48 Lecture total.

Prepares students with the knowledge, work habits, and character traits that are necessary to succeed in the rapidly changing workplace and global economy of the 21st century. Students learn the 21st century soft skills that are critical for the demands of today's work environment. In addition, it teaches workforce preparation such as resume development, cover letter, interview techniques, job search strategies, networking, and elevator speech. Three high school elective credits may be awarded if a student completes all the required assignments and final project. Open Entry/Open Exit.

**VBUS 450****Hardware & Software A+ Preparation, Review, Practice**

Credit(s): 0      Class Hours: 72 Lecture total.

Course provides instruction in computer hardware and software preparation, review, and practice for taking the A+ certification test. Training includes review and practice of upgrading, troubleshooting, and repair of computers; setting up home and small office networks; installation and familiarization of various Operating Systems; Applications, and Utilities. May award five high school elective credits if student completes all the required assignments with a minimum passing grade of 75%. Open Entry/Open Exit.

**VBUS 500****Digital Literacy for Academic and Professional Success - Tier 1**

Credit(s): 0      Class Hours: 36 Lecture total.

The first integrated digital literacy course that prepares students for academic and workplace success by providing instruction on the fundamental technology skills needed to be digitally literate. Topics covered include: computer and smart phone functionality; introduction to the internet; the internet to find information; mobile applications for language learning; email creation and usage; online forms; video and audio sharing sites for language learning; social media for information; word processing applications; and introduction to online educational applications. Students may be awarded 2.5 high school elective credits if they complete and pass all course assignments and requirements. Open Entry/Open Exit.

**VBUS 501****Digital Literacy for Academic and Professional Success - Tier 2**

Credit(s): 0      Class Hours: 36 Lecture total.

The second integrated digital literacy course that prepares students for academic and workplace success by providing instruction on the primary technology skills needed to enhance digital literacy. Topics covered include: review of topics covered in Digital Literacy for Academic and Professional Success - Tier I; the internet to search and evaluate information; mobile applications for learning and productivity; email etiquette for social and professional exchanges; online applications for synchronous communication; social media for civic and professional engagement; use word processing programs for academic and career readiness; online educational applications for collaboration; and overview of learning management systems (e.g., Canvas). Students may be awarded 2.5 high school elective credits if they complete and pass all course assignments and requirements. Open Entry/Open Exit.

**VBUS 502****Digital Literacy for Academic and Professional Success - Tier 3**

Credit(s): 0      Class Hours: 36 Lecture total.

The third integrated digital literacy course that prepares students for academic and workplace success by providing in depth instruction on a range of technology skills needed to further enhance digital literacy. Topics covered include: review of topics covered in Digital Literacy for Academic and Professional Success - Tier I and II; internet safety and one's digital footprint; plagiarism in the Digital Age; use word processing programs for academic and career readiness; email and text communication - social and professional standards; introduction to online conferencing; introduction to blogging and wikis; expansion and application of online educational programs; and learning management systems - navigation and participation. Students may be awarded 2.5 high school elective credits if they complete and pass all course assignments and requirements. Open Entry/Open Exit.

**VBUS 503****Digital Literacy for Real World Application - Tier 4**

Credit(s): 0      Class Hours: 36 Lecture total.

The final of four integrated digital literacy courses. In this course, students will employ the knowledge and skills acquired in Digital Literacy for Academic and Professional Success Tiers 1 through 3 to create a professional portfolio online. Instruction will focus on the technology and interpersonal skills needed to create an online presence necessary for academic and workplace success in the 21st century. Specifically, the following will be reviewed: topics covered in Tiers 1, 2 and 3; website creation to create an online portfolio; formatting and design standards for resumes; social media platforms to build a professional presence online; online professional networking through personal connections; and understanding how to use learning management systems through participation and collaboration. Students may be awarded 2.5 high school elective credits if they complete and pass all course assignments and requirements. Open Entry/Open Exit.

**VBUS 559****Business Practices in Family Child Care**

Credit(s): 0      Class Hours: 36 Lecture total.

Provides potential family child care providers with information and skills necessary for successful operation of a family child care business. Open Entry/Open Exit.

**VBUS 574****Computer Basics: Hardware & Software**

Credit(s): 0      Class Hours: 192 Lecture total.

Provides instruction in maintenance, repair, and upgrading of personal computers. Emphasizes functional operations of hardware and software components. Includes hands-on experience with upgrading and repair of computers. Upon completion of course requirements a student may be awarded 5 high school elective credits. Open Entry/Open Exit.

**VBUS 576****Computer Basics: Systems and Networking Essentials**

Credit(s): 0      Class Hours: 90 Lecture total.

Course provides baseline level of knowledge for networking certifications, including MCSA, MCSE, CNA and CCNA designations. The focus is also on networking operating systems including Microsoft Windows and Linux. This class is for students with knowledge of computer repair and troubleshooting. May award five high school elective credits if student completes all the required assignments with a minimum passing grade of 75%. Open Entry/Open Exit.

**VBUS 590****Introduction to How to Start a Small Business**

Credit(s): 0      Class Hours: 72 Lecture total.

Provides an introductory series of classes focusing on specific topics addressing the needs of individuals desiring to start a small business. May award five high school elective credits if student completes all the required assignments with a minimum passing grade of 75%. Open Entry/Open Exit.

**VBUS 668****Introduction to Automotive Vehicle Systems***Formerly: Introduction to Automotive Vehicle Maintenance*Credit(s): 0      Class Hours: 72 Lecture total.

Introduction to the primary automotive systems used on modern vehicles. Theory, parts nomenclature, and description of system operation are emphasized. May award five high school elective credits if student completes all the required assignments with a minimum passing grade of 70%. Open Entry/Open Exit.

**VBUS 680****Basic Machining Concepts and Operations**Credit(s): 0      Class Hours: 144 Lecture total.

Fundamental operations on lathes, milling machines, grinders, and drill presses, including precision measurements and layout. Equips students with skills and theory necessary to enter or upgrade within the machinist trade. (Same as MNFG 158). Open Entry/Open Exit.

**Vocational - Construction (VCNST)****VCNST 610****Vocational Construction Technology Module I**Credit(s): 0      Class Hours: 88 Lecture total.

Provides basic introduction to construction technology including Occupational Safety and Health Administration (OSHA) standards, first aid, and the proper use of hand and power tools. Introduces basic theory and tools for use in concrete and electrical work. May earn five high school credits if student completes all the required assignments with a minimum passing grade of 75%. Open Entry/Open Exit.

**VCNST 620****Vocational Construction Technology Module II**Credit(s): 0      Class Hours: 192 Lecture total.

Provides basic instruction with practical experience in building foundations, framing, and installing drywall, including completion of project(s). Recommended for those who have completed Vocational Construction Technology Module I, or those who have the instructor's approval by standard assessment. May earn five high school credits if student completes all the required assignments with a minimum passing grade of 75%. Open Entry/Open Exit.

**VCNST 630****Heating/Ventilation/Air Conditioning/Refrigeration (HVAC-R) Technology**Credit(s): 0      Class Hours: 288 Lecture total.

This course is designed to provide students with entry-level skills in the repair and servicing of heating, ventilating, air-conditioning, and refrigeration (HVAC-R) equipment used in residential, industrial and commercial buildings. Twenty high school elective credits may be awarded if a student passes the course with a minimum grade of 70%. Open Entry/Open Exit.

**Vocational - Food (VFOOD)****VFOOD 005****ServSafe Food Handler**Credit(s): 0.0      Class Hours: 36 Lecture total.

This course prepares students for employment in commercial and institutional food kitchens. It includes employee terminology, responsibilities, and training when preparing, handling, and serving food to the public. The course covers six key areas: basic food safety; good personal hygiene; controlling time and temperature; preventing cross-contamination; cleaning and sanitizing; and detailed food industry safety guidelines. It prepares students for the ServSafe Food Handler Certification. Two high school elective credits may be awarded if a student passes the course with a minimum grade of 70%. Open Entry/Open Exit.

**VFOOD 200****Line Cook Training**Credit(s): 0.0      Class Hours: 60 Lecture total.

This course provides instruction on the different aspects of food preparation, as well as methods of presenting and serving food properly. Students will also receive training in the following types of cooking stations: grill, pantry, sauté, fry, and preparation. Four high school elective credits may be awarded if a student passes the courses with a minimum grade of 70%. Open Entry/Open Exit.

**VFOOD 210****ServeSafe Food Protection Manager Certification Exam Preparation, Review, & Practice**Credit(s): 0.0      Class Hours: 54 Lecture total.

This course prepares students for the ServSafe® Food Protection Manager Certification Exam. The certification will allow students to obtain employment in commercial and institutional food kitchens. The following areas will be covered: foodborne microorganisms and allergens; purchasing, receiving, and storing food; preparing, cooking, and serving food; cleaning and sanitizing facilities; and learning about pest control methods. Three high school elective credits may be awarded if a student passes the course with a minimum average of 70% in all coursework. Open Entry/Open Exit.

**Vocational - Health (VHLTH)****VHLTH 100****Topics Health Services**Credit(s): 0      Class Hours: 72-216 Lecture total.

A specialized course on topics related to the current needs of the students in the Business Skills and Health Services programs. Open Entry/Open Exit.

**VHLTH 101****Overview of the Nursing Assistant Training Program**Credit(s): 0      Class Hours: 10 Lecture total.

This course is designed to provide an introduction to the clinical and theoretical requirements for the Certified Nursing Assistant (CNA) Training Program. Open Entry/Open Exit.

**VHLTH 102****Certified Nursing Assistant (CNA) Training**

Credit(s): 0      Class Hours: 184 Lecture total.

*Prerequisite: VHLTH 101 Overview of the Nursing Assistant Training Program.*

Designed for students who want to become Certified Nursing Assistants (CNA). This course includes theory and clinical segments designed to prepare them to complete the CNA certification and potentially seek employment as entry-level healthcare assistants. Upon completion, the student will be prepared to take the California certification exam. Students must complete all lecture hours and clinical training hours to be eligible to take the certification exam. Ten high school elective credits may be awarded if a student passes the course with a minimum grade of 70%. Open Entry/Open Exit.

**VHLTH 109****Introduction to Caregiving**

Credit(s): 0.0      Class Hours: 24 Lecture total.

This course is designed to prepare students to assist the elderly, convalescents, or persons with disabilities with daily living activities at the person's home or in a care facility. Duties performed at a place of residence may include up keeping the house (e.g., making beds, doing laundry, washing dishes) and preparing meals. Topics covered include methods of advising families, the elderly, convalescents, and persons with disabilities regarding such topics as nutrition, cleanliness, and household activities. One high school elective credit may be awarded if a student passes the course with a minimum grade of 70%. Open Entry/Open Exit.

**VHLTH 110****Caregiver Training**

Credit(s): 0.0      Class Hours: 34 Lecture total.

*Prerequisite: VHLTH 109, Introduction to Caregiving*

This course is designed to provide students with hands-on experience as caregivers. Students will apply caregiver skills in a simulated caregiving environment. Two high school elective credits may be awarded if a student passes the course with a minimum grade of 70%. Open Entry/Open Exit.

**VHLTH 704****Introduction to Biotechnology**

Credit(s): 0.0      Class Hours: 50 Lecture total.

This course is a general examination of biology as it relates to the field of biotechnology. Topics include the fundamental chemical processes common in prokaryotic and eukaryotic biology, chemistry of bio-molecules (proteins, enzymes, nucleic acids and lipids), cellular and molecular biology, basic immunology, and classical and molecular genetics with an emphasis on gene expression and genetic engineering. Open Entry/Open Exit.

**VHLTH 705****Introductory Biotech Lab**

Credit(s): 0.0      Class Hours: 54 Lecture total.

*Prerequisite: VHLTH 704, Introduction to Biotechnology**Corequisite: VHLTH 704, Introduction to Biotechnology*

This laboratory is a general examination of biology as it relates to the field of biotechnology. The laboratory addresses basic skills and techniques common to the biotechnology industry. Topics include the measurement of activity and quantity of proteins, growth and manipulation of bacteria, genetic engineering and antibody methods. This course is intended as a laboratory class for students majoring in applied biology and as a general education laboratory option for all students. Open Entry/Open Exit.

**VHLTH 799****Introduction to Pharmacy Technology**

Credit(s): 0      Class Hours: 32 Lecture total.

Overview of the SAC Pharmacy Technician training program. Definition of the roles and preview of the opportunities open to pharmacy technicians in various practice settings. Presentation of the pharmaceutical dosage forms, the drug development process, and drug classification systems. Introduction to prescription labeling and to the law and ethics of pharmacy practice (Same as Pharmacy Technology 048). Open Entry/Open Exit.

**VHLTH 896****Paraprofessional Mental Health Worker II**

Credit(s): 0      Class Hours: 128 Lecture total.

Provides students with basic case management skills for employment as paraprofessional mental health workers. Recommended completion of Paraprofessional Mental Health Worker I. Recommended English proficiency level to be Intermediate and above. May earn five high school elective credits if a student completes all the required assignments and passes the final exam and/or project with a minimum passing grade of 70%. Open Entry/Open Exit.

**VHLTH 897****Paraprofessional Mental Health Worker III**

Credit(s): 0      Class Hours: 128 Lecture total.

Provides students with basic facilitation and counseling skills for employment as paraprofessional mental health workers. Focuses on group and peer counseling. Recommended completion of Paraprofessional Mental Health Worker I. Recommended English proficiency level to be Intermediate and above. May earn five high school elective credits if a student completes all the required assignments and final exam and/or project with a minimum passing grade of 70%. Open Entry/Open Exit.

**Vocational - Hospitality (VHOSP)****VHOSP 201****Career Focus - Hospitality Services**

Credit(s): 0.0      Class Hours: 60 Lecture total.

This course provides students with an overview of the diverse career opportunities in food and lodging services. Students will develop a personal educational preparation and career plan. Topics include food service operations, management basics, and the hotel and lodging industry. The course also covers aspects of hospitality management, such as business structures and operations, human resources, and workplace safety. Four high school elective credits may be awarded if a student passes the course with a minimum grade of 70%. Open Entry/Open Exit.

**Santa Ana College Administrators****Becerra, Rosio (2018)**

Director, Special Programs  
Academic Talent Search  
B.A., M.A., California State University, Dominguez Hills

**Chavez, Lorena (2017)**

Director, Special Programs  
Santa Ana College/School of Continuing Education  
B.A., Loyola Maymount University  
M.A., California State University, Long Beach

**De La Rosa, Jennifer (2018)**

Associate Dean, Student Development  
A.A., Coastline Community College  
B.S., Azusa Pacific University  
M.S.W., University of Southern California

**Dela Cruz, Maria (2016)**

Dean, Counseling  
B.A., Pepperdine University  
M.A., California State University, Long Beach  
Ph.D., University of Southern California

**Dower, Kellori (2019)**

Dean, Fine and Performing Arts  
B.A., San Diego Christian College  
M.Ed., National University  
Ed.D., Northcentral University

**Eidgahy, Saeid Y. (2019)**

Dean, Science, Mathematics and Health Sciences  
B.S., Bowling Green State University  
M.Ed., Bowling Green State University  
Ph.D., Bowling Green State University

**Estrada, Brenda S. (2016)**

Director of Special Programs, Veterans Resource Center  
B.S., California State University, Fullerton  
M.S.Ed. California State University, Fullerton  
Ed.D., California State University, Long Beach

**Flores, Marilyn (2013)**

Interim President  
B.A., University of California, Riverside  
M.A., University of California, Los Angeles  
Ph.D., University of California, Riverside

**Galván, Javier A. (1996)**

Interim Dean of Humanities and Social Sciences  
B.A., California State University, Los Angeles  
M.A., M.S., Ph.D., University of Southern California  
M.A., California Polytechnic State University, Pomona

**Gaspar, Mario (2018)**

Director, Physical Plant and Facility  
B.S., University of Phoenix  
M.B.A., University of Phoenix

**Grant, Madeline A. (2001)**

Dean, Business Division  
B.A., University of San Diego  
M.B.A., Claremont Graduate School

**Hoffman, Simon B. (2005)**

Vice President, Administrative Services  
B.S., California State University, Long Beach  
M.B.A., University of Phoenix  
Ed.D., California State University, Fullerton

**Hubbard, Vaniethia (2018)**

Vice President, Student Services  
B.A., California State University, Fullerton  
M.S.W., Clark Atlanta University  
Ed.D., California State University, Fullerton

**Kennedy, James (2007)**

Vice President, School of Continuing Education,  
Santa Ana College  
B.A., Sonoma State University  
M.B.A., University of Phoenix  
Ed.D., California State University, Fullerton

**Kosko, Christine (2011)**

Dean, Instruction and Student Services,  
Santa Ana College/School of Continuing Education  
B.S., University of Phoenix  
M.A., National University

**Kruizenga, Alicia (2017)**

Dean, Student Affairs  
A.A., Cypress College  
B.A., California State University, Fullerton  
M.A., Brandman University

**Lamb, Jeffrey N (2018)**

Vice President, Academic Affairs  
B.A., California State University, Long Beach  
M.A., San Diego State University  
Ph.D., University of California, Los Angeles

**Leon, Christine (2013)**

Associate Dean, EOPS/CARE and CalWORKS  
B.A., M.S.W., University of California, Los Angeles

**Liang, Mark (2006)**

Dean, Enrollment Services  
B.A., California State University, Fullerton  
J.D., Trinity International University, School of Law

**Manning, R. Douglas (2017)**

Dean, Kinesiology and Athletics  
B.S., Florida State University  
M.S., Florida State University  
Ph.D., University of New Mexico

**Manson, Robert (2006)**

Associate Dean, Financial Aid

B.A., California State University, Fullerton

M.B.A., Chapman University

**Mathews, Kimberly (2013)**

Director, Special Programs

Career Education & Workforce Development

B.A., University of Notre Dame

M.A., University of Redlands

**Oforlea, Veronica (2016)**

Associate Dean, Disabled Students Program & Services (DSPS)

B.A., California State University, San Bernardino

M.S., Western University of Health Sciences, Pomona

Ed.D., California State University, Stanislaus

**Ortiz, Fernando D. (1996)**

Dean, Academic Affairs

A.A., Santa Ana College

B.A., California State University, Fullerton

M.A., Ph.D., University of California, Riverside

**Paramore, Stephanie (2019)**

Dean, Instruction and Student Services

Santa Ana College/School of Continuing Education

B.A., University of California, Santa Barbara

M.A., San Diego State University

**Romero, Christina (2003)**

Executive Director, College Advancement

A.A., Santa Ana College

B.A., California State University, Long Beach

M.A., University of Redlands

**Sergeyeva, Larisa (2019)**

Dean, Human Services and Technology

B.S., Hope International University

M.A., Hope International University

Ed.D., Argosy University

**Soto, Armando (2019)**

Associate Dean of Counseling

A.A., Southwestern College

B.A., University of California, Berkeley

M.A., San Diego State University

Ed.D., University of Southern California

**Virgoe, Brad (2018)**

Director, Criminal Justice Academies

B.S., University of Redlands

M.A., California State University, Dominguez Hills

**Winchell, Timothy (2018)**

Associate Dean, Criminal Justice Academies

Graduate - Northwestern School of Police Staff and Command

M.P.A., University of Washington

Ph.D., Portland State University

**SANTA ANA COLLEGE FACULTY****Abbey, Troy (2001)**

Professor, Kinesiology

B.A., California State University, Long Beach

M.A., Azusa Pacific University

**Alduenda, Leann (2015)**

Associate Professor, Dance

B.A., University of California, Riverside

M.F.A., University of California, Irvine

**Andrade, Philippe (2007)**

Associate Professor, Political Science

B.A., California State University, Long Beach

Ph.D., Claremont Graduate University

**Aguilar Beltran, Maria (2008)**

Professor/Coordinator, Assessment Center

B.A., California Polytechnic State University, Pomona

M.S.W., California State University, Long Beach

L.D., Certificate, California State University, Sacramento

**Arazi, Heather (2019)**

Assistant Professor, American Sign Language

B.A., Gallaudet University

M.A., California State University, Northridge

M.A., University of Phoenix

**Axtell, Christina (2014)**

Associate Professor, English

A.A., Santiago Canyon College

B.A., University of California, Los Angeles

M.A., California State University, Fullerton

**Barnard, Rebecca (2012)**

Coordinator, Health and Wellness Center

B.S.N., Point Loma Nazarene University

M.S.N., Azusa Pacific University

D.N.P., Azusa Pacific University

**Barraza, Gregory (2019)**

Coordinator, Inmate Education

B.A., Chapman University

M.F.A., Chapman University

M.S., California State University, Fullerton

Ph.D., Chapman University

**Barrios, Andrew (2018)**

Assistant Professor, Biology

B.S., California State University, Fullerton

M.S., California State University, Fullerton

**Bass, Stacey (2006)**

Professor, Nursing

B.S.N., Loma Linda University

M.S.N., California State University, Long Beach

D.N.P., Western University of Health Sciences

**Bassett, Dana (2001)**

Professor, English

B.A., M.A., California State University, Fullerton

**Bautista, Steve (2001)**

Counseling

B.A., M.S., California State University, Fullerton

**Baquero, Jaymie (2014)**

Assistant Professor, Kinesiology

B.A., Loyola Marymount University

M.A., California State University, Long Beach

**Beltran, Jennie (2014)**

Associate Professor, Biology

B.S., M.S., University of California, Irvine

**Bennett, Gary (1998)**

Professor, English

B.A., M.A., California State University, Fullerton

Ph.D., University of Nevada at Las Vegas

**Bennett, Sarah (2016)**

Assistant Professor, Communications and Media Studies

B.A., M.A., University of Southern California

**Benson, Kyla (2013)**

Associate Professor, Fashion Design Merchandising

B.S., University of California, Davis

M.A., Trident University International

**Beyersdorf, Matthew A. (2006)**

Professor, English

A.A., Saddleback College

B.A., M.A., Chapman University

J.D., Chapman University School of Law

Member of the California State Bar

**Bittner, Mathew (2019)**

Assistant Professor, Automotive Technology

A.S., Cypress College

**Bootman, Ashly (2015)**

Associate Professor, English

B.A., University of California, Riverside

M.A., California State University, Fullerton

**Bradley, Kyle (2014)**

Associate Professor, Mathematics

B.A., M.A., California State University, Fullerton

**Brandon, Kelly (1989)**

Professor, English

B.A., University of California, Los Angeles

M.A., University of California, Santa Barbara



**Breig, David B. (2002)**

Professor, Kinesiology  
A.A., Cerritos College  
B.A., Seattle Pacific University  
C.C.T.C., California State University, Dominguez Hills  
M.S., California State University, Fullerton

**Briones, Michael (2016)**

Assistant Professor, Music  
B.M., California State University, Long Beach  
M.M., Azusa Pacific University

**Brocatto, Carlos (2018)**

Assistant Professor, Philosophy  
B.A., University of California, Riverside  
M.A., California State University, Los Angeles

**Brown, Angela T. (2001)**

Counseling  
A.A., Citrus College  
B.S., University of California, Riverside  
M.A., California State University, San Bernardino

**Buechler, Michael (2014)**

Associate Professor, Manufacturing Technology  
A.S., Fullerton College

**Bui, Annette (2017)**

Assistant Professor, Counseling  
A.A., Santa Ana College  
B.A., California State University, Fullerton  
M.A., California State University, Dominguez Hills

**Campbell, Alondo C. (2013)**

Associate Professor, Sociology  
A.A., Golden West College  
B.A., California State University, Long Beach  
M.A., California State University, Fullerton  
Ph.D., Purdue University

**Campos-Robledo, Joanna (2013)**

Counseling  
B.S., California State University, Fullerton  
M.A., Claremont Graduate University  
M.S., University of La Verne

**Cannon, Chris (2011)**

Associate Professor, Theatre Arts  
B.A., Southeastern University  
M.F.A., University of Virginia

**Canzona, Paula (1998)**

Counseling  
B.S., University of Redlands  
M.A., California State University, Dominguez Hills

**Carriger, Lisa (2017)**

Assistant Professor, RN, MSN  
A.D.N., Saddleback College  
B.S.N., University of Texas Arlington  
M.S.N., University of Texas Arlington

**Castellanos, Mary (1979)**

Counseling  
B.A., San Diego State University  
M.S., California State University, Fullerton  
Ph.D., United States International University

**Cass, Ann (2019)**

Counseling  
B.A., Cal State University, Long Beach  
M.S., National University

**Castillo, Ricardo (2011)**

Professor, Psychology  
B.A., California State University, Bakersfield  
M.A., California State University, Fullerton

**Chakhad, Mohamed (2020)**

Assistant Professor, Physics  
B.S., University of Mary Washington  
Ph.D., University of Texas

**Chamberlain, Amberly (2017)**

Assistant Professor, Theatre Department  
A.A., Fullerton College  
B.A., California State University, Fullerton  
M.F.A., California State University, Long Beach

**Clark, Stephanie (2014)**

Associate Professor, Art  
B.A., Rice University  
M.F.A., Rochester Institute of Technology

**Coffman, Jodi (2000)**

Counseling  
B.A., University of California, Santa Barbara  
M.A., San Diego State University  
M.Ed., Ed.D., University of San Diego

**Collins, Monica (2006)**

Professor, American Sign Language Program  
B.S., Illinois State University  
M.S., Western Oregon State

**Colunga, Molly (2002)**

Professor, Reading  
B.A., M.S., California State University, Fullerton  
M.A., Pennsylvania State University

**Corp, Richard (2015)**

Associate Professor, Mathematics  
B.S., California Polytechnic State University, Pomona  
M.S., California State University, Fullerton

**Courter, William (1996)**

Professor, Geography

A.A., Long Beach City College

B.A., California State University, Long Beach

M.A., California State University, Northridge

**Coyne, Claire M. (2006)**

Professor, Earth Science/Geology

B.S., University of Maryland, College Park

M.S., University of Southern California

**Cummings, Reyna (2016)**

Associate Professor, Communication Studies

B.A., Saint Mary's College

M.A., California State University Los Angeles

**Delaby, Michael (2020)**

Assistant Professor, Nursing

A.D.N., Golden West College

B.S.N., M.S.N., University of Texas, Arlington

**Deluna, Daniel (2014)**

Associate Professor, History

A.A., Saddleback College

B.A., University of California, Los Angeles

M.A., California State University, Northridge

**Dermody, Michael (2016)**

Assistant Professor, Digital Media

B.S., California State University, Sacramento

M.S., Ithaca College

M.F.A., National University

**Diamond, Zachary (2019)**

Assistant Professor, Welding Technology

Los Angeles Structural Welding Certified

Divers Academy International Certified

**Dibb, Patrick (2015)**

Associate Professor, EMT

A.A., Santa Ana College

B.S., University of California, Irvine

**Diller, Jeffrey (2014)**

Associate Professor, English

A.A., Riverside City College

B.A., M.A., California State University, Fullerton

**Dinh-Mahavongtrakul, Minhan (2016)**

Assistant Professor, Biology

B.S., University of California, Davis

M.S., Ph.D., University of California, Irvine

**Dombroske, Leona (2018)**

Assistant Professor, Pharmacy Technology

Pharm.D., University of California School of Pharmacy

**Doolittle, Glenn A. Jr. (1996)**

Professor, Global Business and Entrepreneurship

B.A., University of Texas

J.D., University of Georgia

**Dufala, Christopher (2016)**

Assistant Professor, Studio Arts

B.F.A., Rowan University

M.F.A., California State University, San Jose

**Dumon, Dori (2017)**

Assistant Professor, Business Applications &amp; Technology

A.A., Santa Ana College

**Dwyer, Dalva (2001)**

Professor, ESL

B.A., UNIVAP, Brazil

M.A., California State University, Fullerton

**Emley, Catherine (1998)**

Professor, Medical Assisting

A.A., B.S.N., Mount St. Mary's College, Los Angeles

M.N., Psychiatric Mental Health Nursing

University of California, Los Angeles

**Estrada, Maria (2016)**

Assistant Professor, Counseling

B.A., University of California, Los Angeles

M.A., San Diego State University

**Ettinger, Becky (2006)**

Professor, Nursing

A.D.N., Cerritos College

B.S.N., University of Phoenix

M.S.N., California State University, San Bernardino

D.N.P., Western University of Health Sciences

**Everett, Mike (2002)**

Professor, Mathematics

B.A., B.S., M.A., California State University, Fullerton

**Fish, Zachary (2004)**

Professor, Philosophy

B.A., Philosophy, University of New Orleans

M.A., Ph.D., University of California, Riverside

**Fondren, Stephanie R. (1996)**

Professor, Communication Studies

A.A., Long Beach City College

B.A., M.A., California State University, Long Beach

**Freeman, Suzanne (1993)**

Professor, Fire Technology

B.A., California State University, Long Beach

**Funaoka, Mary (2014)**

Associate Professor, Child Development and Education Studies

B.A., University of California, Los Angeles

M.A., Loyola Marymount University

Ed.D., University of Southern California

**Galván, Javier (1996)**

Professor, Spanish

B.A., California State University, Los Angeles

M.A., M.S., Ph.D., University of Southern California

M.A., California Polytechnic State University, Pomona

**García, Yolanda (1985)**

Professor, Librarian

B.A., California State University, Long Beach

M.L.S., University of California, Los Angeles

**Garnett, Susan (2007)**

Associate Professor, ESL/RSAEC Faculty Coordinator

B.A., University of California at Los Angeles

M.S., California State University Fullerton

**Gillette, Heather (1999)**

Professor, Dance

B.F.A., California State University, Long Beach

M.F.A., University of Utah

Certified Laban Movement Analyst

**Gilmour, Dennis (1991)**

Counseling

A.S., Grossmont College

B.S., M.S., San Diego State University

**Gilreath, Genice (1997)**

Professor, Reading

B.S., Minot State University

M.A., California State University, San Bernardino

**Gonis, Andy (2005)**

Professor, Criminal Justice

B.S., California State University, Long Beach

M.S., California State University Long Beach

Ph.D., Northcentral University

Graduate, FBI National Academy

**Gonzaga-Siguenza, Patricia (1996)**

Professor, Counseling

B.A., M.S., California State University, Fullerton

**Gonzalez, Adrianna (2014)**

Associate Professor, Adult Basic Education /GED

B.A., University of California, Irvine

M.A., California State University, Long Beach

TESOL Certificate, University of Anaheim

**Gonzales, Gregory (2019)**

Assistant Professor, Welding Technology

Los Angeles City Certified Welder

Certified Welding Inspector/Education, American Welding Society (AWS)

**Gonzalez, Haydee (2015)**

Counseling

A.A., Los Angeles Harbor College

B.A., University of California, Los Angeles

M.S., California State University, Long Beach

**Guerrero-Phlaum, Martha (2005)**

Professor, Spanish

B.A., M.A., Ph.D., University of California, Irvine

**Guzmán, Kristen (2006)**

Professor, History

B.A., University of California, Santa Cruz

Ph.D., University of California, Los Angeles

**Ha, Michael (2017)**

Associate Professor, Counseling

B.A., Divine Word College

M.A., Chapman University

**Hager, Benjamin (2013)**

Associate Professor, Mathematics

B.A., M.A., California State University, Fullerton

**Hampton, Jubal (2001)**

Professor, Biology

B.S., University of California, Irvine

M.A., California State University, Fullerton

**Hardy, Michelle (2014)**

Associate Professor, Child Development and Education Studies

B.A., California State University, Fullerton

M.A., California State University, Long Beach

**Hassel, Elissa A. (1996)**

Professor, ESL

B.S., University of California, Davis

M.A., Biola University

**Heremans, Tiffany (2019)**

Assistant Professor, Hospitality and Culinary Arts

A.S., Florida Culinary Institute

B.S., University of Phoenix

**Hester, James (1996)**

Professor, Computer Science

B.S., M.S., Ph.D., University of California, Irvine

**Hicks, Raymond (2002)**

Professor, ESL

B.A., Bowling Green State University

M.A., United States International University

M.B.A., Heriot-Watt University

**Higgins, Conor (2015)**

Associate Professor, English

A.A., Orange Coast College

B.A., M.F.A., San Diego State University

**Higgins, Mark (1989)**

Professor, English

B.S., St. Vincent College

M.A., University of Southern California

**Higuera, Daniel (2019)**

Assistant Professor, Physical Fitness, Wellness and Fire Technology

A.S., Mount San Antonio College

B.S., California Polytechnic State University, Pomona

M.S., California Polytechnic State University, Pomona

**Hoang, Susan (2015)**

Associate Professor, Librarian

B.A., Pomona College

M.L.I.S., California State University, San Jose

**Horenstein, Daniel (2017)**

Assistant Professor, Astronomy

B.S., Columbia University

M.S., Georgia State University

**Hostetter, Darren (2015)**

Associate Professor, Studio Arts

B.F.A., M.F.A., California State University, Long Beach

**Hughes, Philip (1989)**

Professor, Earth Science/Geology

B.S., University of Southern California

M.S., Ohio State University

**Huskey, Jason (2019)**

A.A., Fullerton College

B.S., California State University, Long Beach

M.A., California State University, San Bernardino

J.D., Western State University College of Law

**Isbell, James (2004)**

Professor, English

B.A., M.A., Chapman University

**Jang, Charles (2014)**

Associate Professor, Biology

B.S., California State University, Fullerton

M.S. equiv., University of California, Riverside

**Janio, Jarek (2007)**

Professor/Coordinator, English as a Second Language

B.A., California State University, Long Beach

M.A., California State University, Dominguez Hills

Ph.D., Walden University,

TESOL Certificate, Seattle Pacific University

**Janus, Louise (2011)**

Associate Professor, Learning Disability Specialist

B.A., University of San Diego

M.Ed., Argosy University

L.D. Certificate, California State University, Sacramento

**Jenkins, Crystal (2004)**

Professor, Chemistry

B.A., M.S., University of California, San Diego

M.S., California State University, Long Beach

**Jin, Jungwon (2011)**

Associate Professor, Music

B.M., Manhattan School of Music

M.M., D.M.A., University of Southern California

**Jones, Elliott (2000)**

Professor, Music

B.A., M.M., Arizona State University

D.M.A., University of Miami

**Jones, Geoff (2004)**

Professor, Kinesiology

B.A., Chapman University

M.A., Azusa Pacific University

**Jones, Louise (2014)**

Associate Professor, Nursing

A.D.N., Santa Ana College

B.S., M.S.N., California State University, Fullerton

D.N.P., Grand Canyon University

**Kapil, Jill (2019)**

Psychologist

B.A., University of California, Irvine

Psy.D., California School of Professional Psychology

**Keith, Katharine (1991)**

Professor, ESL

B.A., Connecticut College

M.A., University of Wisconsin, Madison

**Kehlenbach, E. Brian (1990)**

Professor, Music

B.S., M.M., University of Connecticut

D.M.A., University of Southern California

**Kelley, Sara A. (2016)**

Assistant Professor, English

B.A., M.A., California State University, Fullerton

**Khalid, Donna Sir (2016)**

Associate Professor/Coordinator ASE Science

B.S., University of California, Irvine

M.B.A., University of Texas Permian Basin

Ph.D., University of Southern California

**Kim, Henry (2001)**

Professor, ESL

B.A., University of Hawaii at Manoa

M.A., California State University, Long Beach

**Kimmel, Michelle (2018)**

Assistant Professor, Child Development and Education Studies

B.A., M.A., California State University, Long Beach

Ed.D., University of Southern California

**King, Jaki (2016)**

Assistant Professor/Librarian  
B.S., Art Institute of Portland  
M.L.I.S., Emporia State University

**Knight, Annie (2014)**

Associate Professor, Librarian  
B.A., California State University, San Bernardino  
M.L.I.S., California State University, San Jose

**Kowsari, Ali (2016)**

Associate Professor, Global Business and Entrepreneurship  
B.S., Tehran University, Iran  
M.S., National University  
M.B.A., University of California, Irvine

**Kushida, Cherylee (1996)**

Coordinator, Distance Education  
B.S., University of California, Irvine  
M.B.A., Claremont Graduate School

**LaBreau, Katie (2019)**

Assistant Professor, Communication Studies  
B.A., California State University, Long Beach  
M.A., California State University, Long Beach

**Lamourelle, Chantal (2016)**

Assistant Professor, Child Development and Education Studies  
B.A., University of California, Los Angeles  
M.S., Nova University

**Lange, Megan (2017)**

Assistant Professor, History  
B.A., North Park University  
M.A., University of California, Santa Barbara  
M.A., California State University, Los Angeles

**Lechuga, Janet (2013)**

Associate Professor, Mathematics  
B.A., M.A., California State University, Fullerton

**Leeds, Kelvin (1997)**

Professor, Mathematics  
B.A., Southern California College  
M.A., California State University, Fullerton

**Lewis, Michael L. (1996)**

Professor, ESL  
B.A., California State University, Fullerton  
M.A., United States International University

**Little, Charles (1986)**

Professor, Communications and Media Studies  
B.A., Azusa Pacific University  
M.A., University of La Verne

**Littlejohn, Stacey (2014)**

Associate Professor, Chemistry  
B.S., Kansas Wesleyan University  
M.S., University of California, Irvine

**Lockhart, Ann (2011)**

Counseling  
B.S.W., M.S.W., California State University, Long Beach

**Lockwood, Lance (2005)**

Professor, Communication Studies  
A.A., Victor Valley College  
B.A., M.A., Chapman University

**Lopez, Jorge (2007)**

Professor, Biology  
B.S., University of California, Davis  
M.S., University of Chicago  
Ph.D., Indiana University

**Lopez-Jaurequi, Leticia (1994)**

Professor, ESL  
B.A., Yale University  
M.A., TESOL Certificate, California State University, Fullerton

**Lopez Mercedes, Jose (2017)**

Assistant Professor, ESL  
A.A., Santa Ana College  
B.A., California State University, Fullerton  
M.A., TESOL Certificate, California State University, Fullerton

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**Zarske, Monica S. (2005)**

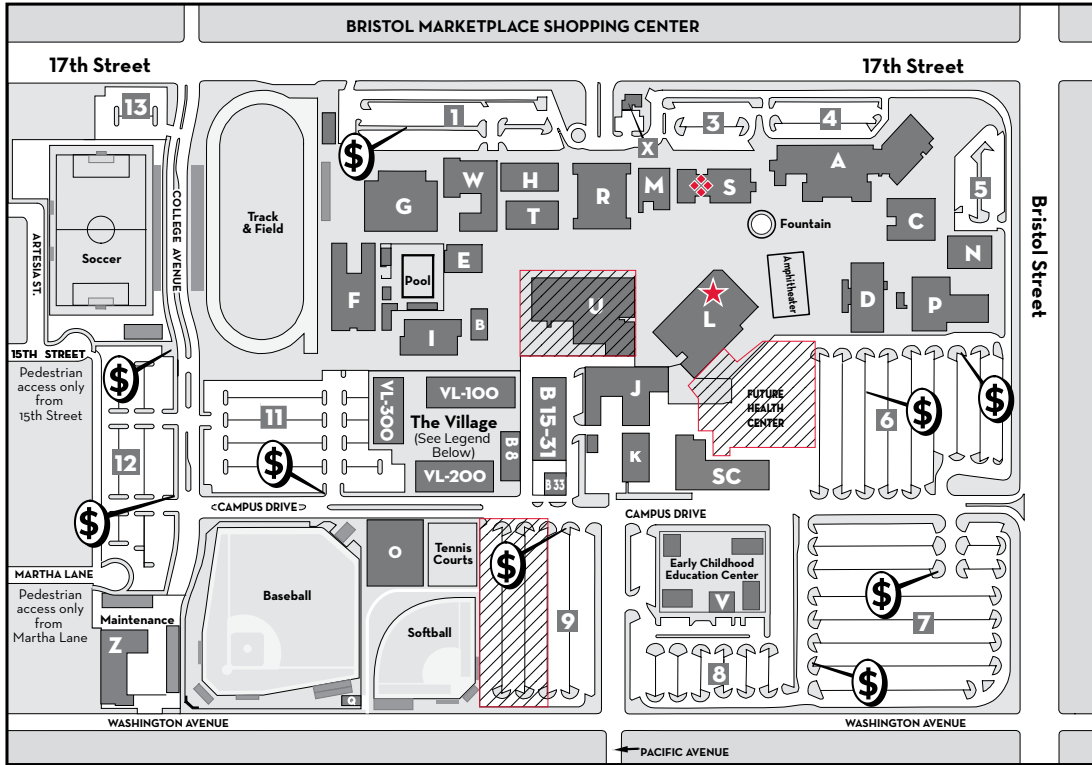
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MAP - Santa Ana College

**SANTA ANA COLLEGE** 1530 W. 17th Street • Santa Ana, CA 92706 • 714-564-6000 • sac.edu



**PARKING**  
 \$ Daily Permit Dispenser (\$2.00 for 8 hours)  
 1 **STAFF**  
 2 **SECURITY**  
 3 **VISITOR**  
 4 - 5 **STAFF**  
 6 - 13 **STUDENT** (except as posted)  
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 Parking in Bristol Marketplace, across the street from Santa Ana College, is not allowed. Violations will result in tow-aways. RSCCD requires parking permits for student and staff lots at Santa Ana College and Santiago Canyon College. Semester Parking Permits may be purchased at time of registration for \$30.00 in the Student Business Office (VL-205B) in the Village at Santa Ana College, as well as in the Cashier's Office at Santiago Canyon College. The purchase of your permit funds parking services and vehicle security when parked on campus.

▨ Denotes "Closed for Construction" ★ Student Help Desk - Inside Nealley Library ❖ Student Resource Desk: S-Building Lobby

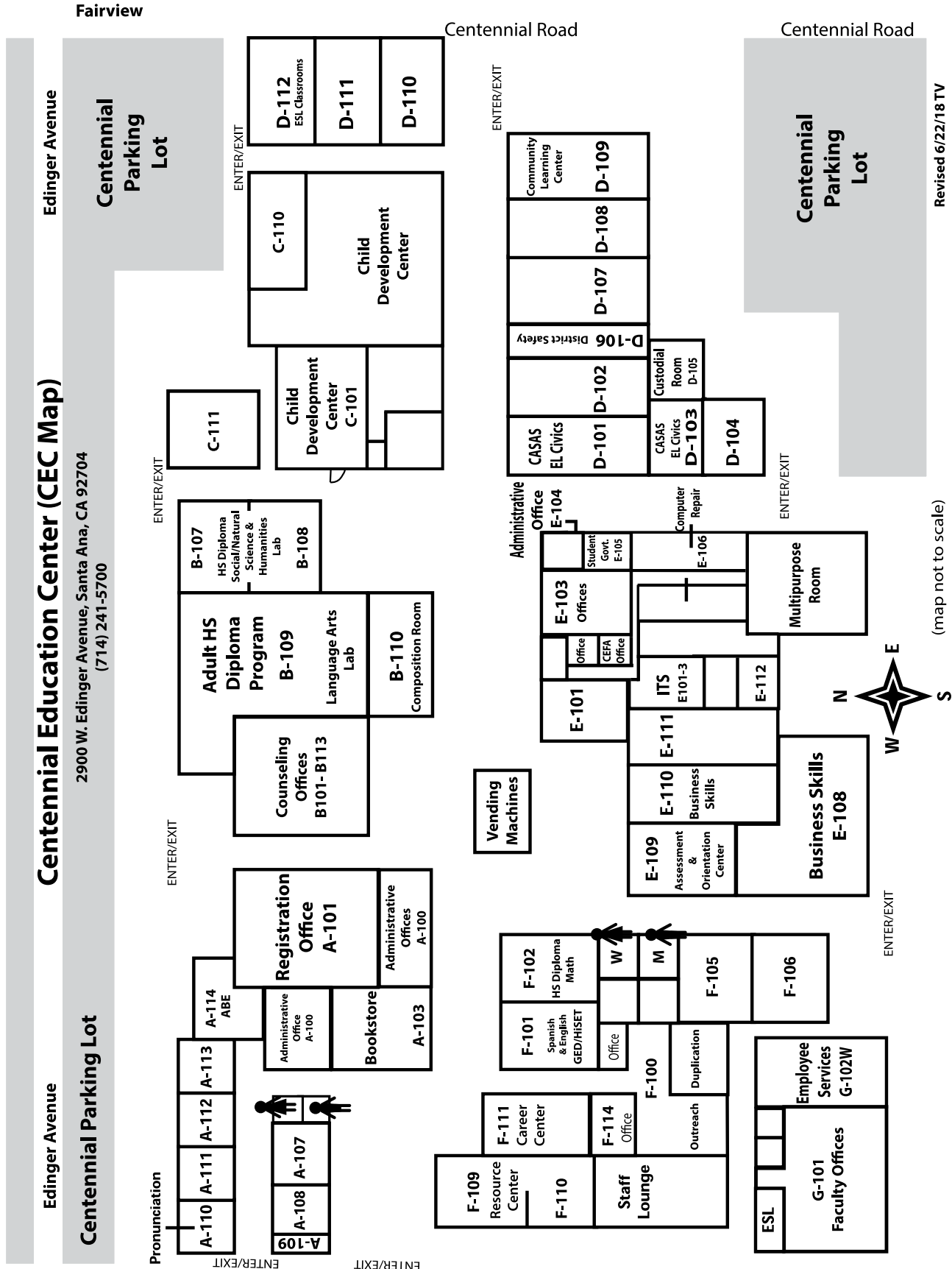
**SAC FACILITIES AND LOCATIONS** To see the most recent version of this map, go to [sac.edu/AboutSAC/Maps](http://sac.edu/AboutSAC/Maps)

<b>A</b> Cesar Chavez Building	<b>M</b> Planetarium	<b>VL</b> The Village
Academic Computing Center (A-106)	Veterans Resource Center (M-120)	Bookstore (VL-209)
Distance Education (A-101)	<b>N</b> Music Building	Campus Store (VL-206)
<b>B</b> Middle College High School	<b>O</b> Central Plant	Classroom (VL-103)
SAUSD Administration Office (B-10)	<b>P</b> Phillips Hall Theatre	Disabled Students Program (DSPS) (VL-204)
Classrooms (The Village) (VL-300)	<b>Q</b> Sports Concession	EOPS/CARE/CalWORKs (VL-110)
<b>B 8</b> Adult Education Center Office	<b>R</b> Russell Hall	EOPS/CARE/CalWORKs Resource Center (VL-109)
<b>B 15 - 31</b> Adult Education Classrooms	Student Support Services / TRiO (R-115)	Financial Aid (VL-105)
<b>B 33</b> Adult Education Classrooms	<b>S</b> Administration Building - First Floor:	Guardian Scholars (VL-108)
<b>C</b> Fine Arts / Art Gallery	Admissions / Records (S-101)	Health & Wellness Center (VL-211)
<b>D</b> Dunlap Hall	Counseling (S-112)	International Student Program (VL-104)
Honors Program (D-307)	Graduation Office (S-104)	Middle College High School Classrooms (VL-300)
Learning Center (D-428)	Promise Program (S-110)	Student Business Office (VL-205B)
<b>E</b> Fitness Center	PUENTE Program (S-110)	Student Life (ASG) (VL-108)
<b>F</b> Locker Rooms	University Transfer Center & Center for Teacher Education (S-110)	Student Placement (VL-106)
<b>G</b> Cook Gym	Administration Building - 2nd Floor:	The Spot (VL-210)
<b>H</b> Hammond Hall	Community Services Program (S-203)	<b>W</b> Kinesiology
<b>I</b> Classroom Building	Foundation (S-201)	<b>X</b> Security / Safety
<b>J</b> Auto Shop	Scholarship Program (S-201)	<b>Z</b> Maintenance
<b>K</b> Welding / Auto Diesel	Student Outreach (S-213)	
<b>L</b> Nealley Library - 1st Floor	<b>SC</b> Science Center	
<b>L Building - 2nd Floor:</b>	<b>T</b> Technical Arts	
Assessment Center (L-223)	<b>U</b> Johnson Center (Under Construction)	
Career Center (L-222)	<b>V</b> Early Childhood Education Center	
Math Study Center (L-204)	Classroom (V-103)	
MESA Program (L-206)		



REV: 05.07.2020

# MAP - Centennial Education Center



**INDEX**

<b>A</b>	
AB 540 . . . . .	20
Absence/Non-Participation/Drop . . . . .	63
Academic Computing Center . . . . .	57
Academic Freedom Policy . . . . .	14
Academic Honesty Policy Information . . . . .	63
Academic Honors . . . . .	63
Academic Renewal . . . . .	64
Academic/Progress Probation Intervention . . . . .	69
Accreditation . . . . .	9
Accounting (Instructional Programs) . . . . .	73
Administrators . . . . .	384
Admission Eligibility . . . . .	19
Admission Policy of International Students on F-1 Visa Status: . . . . .	20
Admissions and Registration . . . . .	19
Admissions and Registration . . . . .	22
Advanced Placement Policies . . . . .	40
American Sign Language (Instructional Programs) . . . . .	78
Announcement of Courses . . . . .	196
Anthropology (Instructional Programs) . . . . .	78
Application . . . . .	19
Application Dates . . . . .	19
Art (Instructional Programs) . . . . .	79
Assembly Bill AB 705: The Law and Your Rights . . . . .	21
Assessment Center . . . . .	57
Associate Degree For Transfer and the University of California . . . . .	48
Associate Degree For Transfer: A Pathway to the CSU Degree . . . . .	47
Associate Degrees . . . . .	28
Associate Degrees For Transfer . . . . .	28
Associated Student Government (ASG) . . . . .	61
Attendance . . . . .	63
Auditing . . . . .	63
Automotive Technology (Instructional Programs) . . . . .	85
<b>B</b>	
Baccalaureate Degree . . . . .	54
Bachelor of Science Occupational Studies Degree . . . . .	54
Begin a Transfer Major at Santa Ana College . . . . .	51
BIOLOGY (Instructional Programs) . . . . .	87
BIOTECHNOLOGY (Instructional Programs) . . . . .	88
BLACK STUDIES (Instructional Programs) . . . . .	89
Board of Trustees . . . . .	10
Bookstore . . . . .	57
BUSINESS (Instructional Programs) . . . . .	89
BUSINESS APPLICATIONS (Instructional Programs) . . . . .	90
<b>C</b>	
C-ID - Course Identification Numbering System . . . . .	197
CLEP Policies (College-Level Examination) . . . . .	43
Cal Grants . . . . .	27
California State Programs . . . . .	26
California State University . . . . .	47
California State University General Education Breadth (CSU GE) . . . . .	36
California State University General Education Requirements . . . . .	47
CalWORKs . . . . .	57
Campus Information . . . . .	61
Campus Regulations . . . . .	64
Career Advanced Placement Program (CAP) . . . . .	23
Career Center . . . . .	57
Career Education and Workforce Development High School Articulation - CTE Transitions . . . . .	57
Catalog Content . . . . .	8
Certificate and Associate Degree Programs at Santa Ana College . . . . .	31
Certificate of Achievement Programs . . . . .	28
Certification of General Education For Transfer to CSU . . . . .	47
Certification of General Education For Transfer to UC or CSU . . . . .	48
Chancellor's Office . . . . .	10
CHEMISTRY (Instructional Programs) . . . . .	94
CHICANO STUDIES (Instructional Programs) . . . . .	95
CHILD DEVELOPMENT (Instructional Programs) . . . . .	95
Child Development Centers . . . . .	58
Chính Sách Bất Kỳ Thị . . . . .	14
Classification of Students . . . . .	22
CLEP Policies (College-Level Examination) . . . . .	<b>43</b>
Clubs, Organizations, and Inter-Club Council (ICC) . . . . .	61
College Advancement/Foundation . . . . .	57
College Credit Instructional Calendar 2020 – 2021 . . . . .	1
College Policies and Standards . . . . .	63
COMMUNICATION STUDIES (Instructional Programs) . . . . .	99
COMMUNICATIONS & MEDIA STUDIES (Instructional Programs) . . . . .	100
Community Services Program . . . . .	57
COMMUNITY SOCIAL SERVICES (Instructional Programs) . . . . .	102
COMPUTER INFORMATION SYSTEMS (Instructional Programs) . . . . .	103
COMPUTER SCIENCE (Instructional Programs) . . . . .	104
Cooperative Work Experience Education . . . . .	65
Counseling Services . . . . .	57
Course Identification Numbering System (C-ID) . . . . .	197
Course Repetition . . . . .	65
Course Requirements for Transfer Students . . . . .	46
Course Substitutions and Reciprocity, Policy and Procedures . . . . .	30
Credit By Examination . . . . .	65
CRIMINAL JUSTICE (Instructional Programs) . . . . .	106
<b>D</b>	
DANCE (Instructional Programs) . . . . .	108
Degrees, Certificates and Transfer Planning . . . . .	28
DIESEL (Instructional Programs) . . . . .	109
DIGITAL MEDIA (Instructional Programs) . . . . .	112
Direct Loan Programs . . . . .	26
Disability Services . . . . .	58
Discrimination Complaints . . . . .	67
Dismissal . . . . .	69
Distance Education . . . . .	28
District Facilities . . . . .	9
Duty to Report . . . . .	18
<b>E</b>	
EARTH SCIENCE (Instructional Programs) . . . . .	113
ECONOMICS (Instructional Programs) . . . . .	114
EDUCATION (Instructional Programs) . . . . .	115
el Don . . . . .	61
ENGINEERING (Instructional Programs) . . . . .	117
ENGLISH (Instructional Programs) . . . . .	122
English Language Academy . . . . .	58
ENTREPRENEURSHIP (Instructional Programs) . . . . .	124
ETHNIC STUDIES (Instructional Programs) . . . . .	125
Examinations . . . . .	66
Extended Opportunity Programs and Services (E.O.P.S.) . . . . .	58
Extenuating Circumstances . . . . .	67
<b>F</b>	
F.E.R.P.A. Family Education Rights and Privacy Notification . . . . .	15
Faculty . . . . .	386
Family Education Rights and Privacy . . . . .	15
FASHION DESIGN MERCHANDISING (Instructional Programs) . . . . .	126
Federal PELL Grant . . . . .	26
Federal Supplemental Educational Opportunity Grant (FSEOG) . . . . .	26

Federal Work-Study (FWS) . . . . .	26	Mission Statement . . . . .	<b>8</b>
Fees, Tuition, and Expenses . . . . .	24	MODERN LANGUAGES (Instructional Programs) . . . . .	162
Financial Aid . . . . .	26	Multiple and Overlapping Enrollments (BP4226) . . . . .	24
FIRE TECHNOLOGY (Instructional Programs) . . . . .	130	MUSIC (Instructional Programs) . . . . .	165
Full-Time – Part-Time Definition . . . . .	22		
		<b>N</b>	
<b>G</b>		Non-resident Tuition . . . . .	24
General Education Categories . . . . .	32	Nondiscrimination Policy . . . . .	14
General Education Philosophy . . . . .	32	NURSING (Instructional Programs) . . . . .	167
General Education Requirements for Independent and Out-of-State Colleges and Universities . . . . .	50	NUTRITION & FOOD (Instructional Programs) . . . . .	170
General Education Requirements for the Associate Degree . . . . .	34		
GEOGRAPHY (Instructional Programs) . . . . .	134	<b>O</b>	
GEOLOGY (Instructional Programs) . . . . .	135	OCCUPATIONAL THERAPY ASSISTANT (Instructional Programs) . . . . .	172
Grades and Grade Point Average . . . . .	67	OCCUPATIONAL STUDIES (BS) . . . . .	173
Graduation Requirements for a Baccalaureate Degree . . . . .	54	Open Educational Resources (OER) . . . . .	25
Grievance Procedures For Students . . . . .	68	Open Enrollment . . . . .	69
Guided Pathways . . . . .	21	Opportunity . . . . .	9
Guidelines For Student Conduct . . . . .	70		
		<b>P</b>	
<b>H</b>		PARALEGAL (Instructional Programs) . . . . .	174
Harassment . . . . .	16	Pass/No Pass Petition . . . . .	66
Harassment and Discrimination . . . . .	15	PELL Grant . . . . .	<b>26</b>
Duty to Report . . . . .	16	Petition for Graduation and Catalog Rights: . . . . .	33
Employee Sanctions . . . . .	17	PHARMACY TECHNOLOGY (Instructional Programs) . . . . .	176
Student Sanctions . . . . .	17	PHILOSOPHY (Instructional Programs) . . . . .	179
Supportive Measures . . . . .	16	Philosophy and Mission . . . . .	8
Definitions . . . . .	17	Photography . . . . .	69
Health and Wellness Center . . . . .	58	PHOTOGRAPHY (Instructional Programs) . . . . .	180
High School and Community Outreach . . . . .	59	PHYSICS (Instructional Programs) . . . . .	181
HISTORY (Instructional Programs) . . . . .	136	PLAN A: 2020-2021 . . . . .	34
Honors and Transfers . . . . .	59	PLAN B: 2020-2021 . . . . .	36
Honors Program and Honors Courses . . . . .	68	PLAN C: 2020-2021 . . . . .	38
Honors Program Transfer Agreements . . . . .	46		
		Policies . . . . .	14
		Política de No Discriminación . . . . .	14
<b>I</b>		POLITICAL SCIENCE (Instructional Programs) . . . . .	181
Important Definitions . . . . .	23	Prerequisite Challenge Policy and Procedures Course Prerequisite Policy . . . . .	24
Incomplete Work . . . . .	67	Prerequisite Challenge Process . . . . .	24
Independent and Out-of-State Colleges and Universities . . . . .	49	Prerequisites, Corequisites and Recommended Preparation for Courses . . . . .	23
Independent Study . . . . .	69	President’s Office . . . . .	11
Institutional Learning Outcomes (Core Competencies) . . . . .	8	Priority Deadline for FSEOG and FWS Programs . . . . .	26
Instructional Locations . . . . .	59	Probation – Dismissal . . . . .	69
Intercollegiate Athletics . . . . .	59	Procedures for Student Grievances Regarding Grades . . . . .	71
International Baccalaureate (IB) Policies . . . . .	45	PSYCHOLOGY (Instructional Programs) . . . . .	182
INTERNATIONAL BUSINESS (Instructional Programs) . . . . .	137	Public Affairs . . . . .	60
International Student Admissions . . . . .	20	Puente . . . . .	60
International Transcripts – Evaluation Practices . . . . .	20		
Intersegmental General Education Transfer Curriculum (IGETC) . . . . .	38	<b>R</b>	
		Rancho Santiago Community College District . . . . .	9
<b>K</b>		Rancho Santiago Community College District Organization . . . . .	10
Key To Locations (RSCCD) . . . . .	13	Rates of Student Progress Student Right-To-Know Act . . . . .	<b>15</b>
KINESIOLOGY (Instructional Programs) . . . . .	139	Refund of Tuition and Enrollment Fees . . . . .	25
		Registered Sex Offender Information . . . . .	71
<b>L</b>		Registration . . . . .	22
LAW (Instructional Programs) . . . . .	142	Registration Orientation . . . . .	21
Learning Center . . . . .	60	Remedial Course Limit . . . . .	70
LIBERAL ARTS DEGREE (Instructional Programs) . . . . .	144	Removal From Probation . . . . .	69
Library Services . . . . .	60	Residency . . . . .	19
LIBRARY TECHNOLOGY (Instructional Programs) . . . . .	153	Right To Review and Challenge Records . . . . .	66
<b>M</b>		<b>S</b>	
MANAGEMENT (Instructional Programs) . . . . .	154	SAC Promise . . . . .	60
MANUFACTURING TECHNOLOGY (Instructional Programs) . . . . .	156	Santa Ana College and Santiago Canyon College . . . . .	9
MARKETING (Instructional Programs) . . . . .	160	Santa Ana College Mission Statement . . . . .	8
Math Center . . . . .	60	Santa Ana College Philosophy and Mission . . . . .	8
MATHEMATICS (Instructional Programs) . . . . .	161		
MEDICAL ASSISTANT (Instructional Programs) . . . . .	162		
MESA . . . . .	60		

Santa Ana College Rates of Student Progress Student  
 Right-To-Know Act . . . . . 15  
 Schedule of Classes . . . . . 22  
 Scholarships . . . . . 60  
 School of Continuing Education . . . . . 60  
**SCIENCE (Instructional Programs)** . . . . . 184  
 Sexual Harassment, Sexual Misconduct Intimate Partner  
 Violence, and Stalking . . . . . 14  
 Smoking and Tobacco Use In District Facilities and Vehicles . . . . . 18  
**SOCIAL SCIENCE (Instructional Programs)** . . . . . 187  
**SOCIOLOGY (Instructional Programs)** . . . . . 187  
 Solomon Amendment For Military Recruiters . . . . . 25  
**SPEECH-LANGUAGE PATHOLOGY ASSISTANT**  
 (Instructional Programs) . . . . . 189  
 Standards of Student Conduct . . . . . 70  
 Student Activities . . . . . 60  
 Student Consumer Information Right-To-Know Disclosure Information 15  
 Student Life . . . . . 61  
 Student Life At Santa Ana College . . . . . 61  
 Student Photo Identification Card . . . . . 22  
 Student Placement . . . . . 61  
 Student Resources . . . . . 57  
 Student Right to Appeal . . . . . 69  
 Study Load . . . . . 63  
 Subject To Dismissal . . . . . 69  
 Summer Session . . . . . 22

**T**

TV/VIDEO COMMUNICATIONS (Instructional Programs) . . . . . 190  
 Teacher Ed . . . . . 61  
 Textbooks and Supplies . . . . . 24  
 The Associate Degree . . . . . 32  
 The College-Level Examination (CLEP) Policies . . . . . 43  
**THEATRE ARTS (Instructional Programs)** . . . . . 191  
 Transcripts . . . . . 67  
 Transfer Credit . . . . . 71  
 Transfer to Other Colleges . . . . . 46  
 Transferability of Courses . . . . . 46  
 Transportation . . . . . 71

**U**

U-Link . . . . . 61  
 Unit of Credit . . . . . 71  
 University of California – Admission Requirements For Transfer . . . . . 48  
 University of California (UC) Transfer Course Agreement 2020-2021 . 52  
 University of California . . . . . 48  
 University of California General Education Requirements . . . . . 48  
 University Transfer Center . . . . . 46  
 University Transfer Center . . . . . 61

**V**

Veterans Resource Center . . . . . 61  
 Veterans Upward Bound(VUB) & Veteran Student Support  
 Services Program (VSSS) . . . . . 62

**W**

Wait List Policy . . . . . **71**  
 Weekend College . . . . . 23  
**WELDING TECHNOLOGY (Instructional Programs)** . . . . . 193  
 Withdrawal From Class . . . . . 67  
 Withholding of Student Records . . . . . 25  
**WOMEN’S STUDIES (Instructional Programs)** . . . . . 195

**Y**

YESS Program . . . . . 62

**Z**

Zero Textbook Cost (ZTC) . . . . . 25

**SANTA ANA SCHOOL OF CONTINUING EDUCATION**

**A**

Admissions and Fees . . . . . 349  
 Adult Basic Education . . . . . 347  
**ADULT BASIC EDUCATION (ABE)** . . . . . 357  
     Adult Basic Education . . . . . 357  
     Adult Secondary Education Reading Proficiency: . . . . . 357  
     Adult Secondary Education Writing Proficiency . . . . . 358  
     Adult Secondary Education Math Proficiency . . . . . 358  
     Leadership Capstone . . . . . 358  
     Spanish Literacy Core Capstone. . . . . 358  
 Adult High School Diploma Program . . . . . 347  
 Adult School Credit Courses . . . . . 351  
 Adult Secondary Education . . . . . 348  
**ADULT SECONDARY EDUCATION (ASE)** . . . . . 357  
     Adult High School Diploma Program. . . . . 357  
     Secondary Education (High School Equivalency Test Preparation) . . 357  
     Transition To College . . . . . 357  
 Armed Forces Schools and/or Programs . . . . . 351  
 Articulation Agreements . . . . . 352  
 Assessment . . . . . 348  
 Assessment . . . . . 352  
 Assessment . . . . . 353  
 Attendance . . . . . **353**

**C**

Career and Employment Center . . . . . 348  
 Career Education . . . . . 347  
**CAREER EDUCATION** . . . . . 358  
     Biotechnology . . . . . 358  
     Caregiver/Personal Care Aide . . . . . 358  
     Childcare Workers . . . . . 359  
     Computer Maintenance and Repair Workers: . . . . . 359  
     Customer Service Representative . . . . . 359  
     Digital Literacy for Office and Administrative Support Worker: . . . 360  
     Digital Literacy for Academic and Professional Success I: . . . . . 360  
     Digital Literacy for Academic and Professional Success II: . . . . . 361  
     General Office Clerk. . . . . 361  
     Heating/Ventilation/Air Conditioning/Refrigeration (HVAC-R)  
     Technology . . . . . 360  
     Hospitality Services . . . . . 361  
     Line Cook . . . . . 361  
     Machinist . . . . . 361  
     Nursing Assistant. . . . . 361  
     Paraprofessional Mental Health Worker. . . . . 362  
     Pharmacy Technology. . . . . 362  
     Secretary/Administrative Assistant . . . . . 362  
     Vocational Construction Technology . . . . . 362  
 Child Care Licensing Program . . . . . 347  
 Child Development . . . . . 348  
 Child Development . . . . . 353  
 Citizenship Preparation . . . . . 347  
 Class Discontinuance Policy . . . . . 349  
 College Credit Courses . . . . . 351  
 Complaint Procedures for Students . . . . . 354  
 Consumer Skills Tasks Credits . . . . . 351  
 Correspondence Courses . . . . . 351  
 Counseling . . . . . 347  
 Counseling and Guidance . . . . . 350  
 Counseling and Guidance . . . . . 353  
 Counseling, Career Planning and Guidance . . . . . 348  
 Course of Study . . . . . 350



**D**

Developmentally Disabled Adult Program . . . . . 353

Developmentally Disabled Adults . . . . . 347

Diploma/Career Development & College Preparation Certificates . . . 356

Disabled Student Programs and Services (DSPS) . . . . . 348

**E**

English as a Second Language . . . . . 347

**ENGLISH AS A SECOND LANGUAGE (ESL)** . . . . . 363

Academic ESL Beginning . . . . . 363

Academic ESL Intermediate . . . . . 363

Academic ESL Capstone . . . . . 363

ESL Transition To Adult Secondary Education (ASE) . . . . . 363

ESL Core Literacy . . . . . 364

ESL Core Beginning . . . . . 364

ESL Core Intermediate . . . . . 364

ESL Core Advanced . . . . . 364

ESL Core Capstone . . . . . 364

Digital Literacy for Academic and Professional Success I: . . . . . 365

Digital Literacy for Academic and Professional Success II . . . . . 365

ESL Enhanced Writing Capstone . . . . . 366

ESL Enhanced Speaking Capstone . . . . . 366

ESL Enhanced Civics . . . . . 366

Vocational ESL . . . . . 366

Vocational ESL Enhanced . . . . . 366

**F**

Family Education Rights and Privacy . . . . . 355

**G**

GED Test Preparation . . . . . 347

General Information . . . . . 350

Goals . . . . . 347

Grading Standards/Procedures . . . . . 353

**H**

Health and Safety Education . . . . . 348

High School Diploma Elective Credits Career Education . . . . . 352

High School Diploma Students . . . . . 354

High School Graduation Requirements . . . . . 350

High School Petition Students . . . . . 354

High School Students Taking College Credit Classes for High School Diploma Credit . . . . . 355

**I**

Instructional Calendar 2020-2021 . . . . . 346

Instructional Programs . . . . . 348

**M**

Minimum Eligibility Requirements . . . . . 353

Mission Statement . . . . . 345

**N**

Noncredit Instructional Programs and Courses . . . . . 356

**O**

Older Adult Program . . . . . 347

Online Application . . . . . 349

Open Enrollment . . . . . 349

**P**

Parent Education . . . . . 347

Parent Education Program . . . . . 348

Parking Fee . . . . . 349

Petitions . . . . . 350

Policies Governing Sources of Credit . . . . . 351

Previous Secondary Schools . . . . . 351

Procedures for Student Complaints Regarding Grades . . . . . 354

Program Objectives . . . . . 347

Project Rise . . . . . 348

**R**

Regional Occupational Program Courses . . . . . 352

Registration . . . . . 350

Residency Requirement . . . . . 350

Right to Review and Challenge Records . . . . . 355

**S**

Santa Ana College Foundation Continuing Education

Leadership and Achievement Scholarship . . . . . 353

Schedule of Classes . . . . . 349

Scholarships . . . . . 353

Special Rules, Regulations and Student Obligations . . . . . 355

Student Development Program . . . . . 348

Student Identification Card . . . . . 349

Student Services . . . . . 348

Student Services and Special Needs . . . . . 353

Students with Substantial Disabilities . . . . . 348

Summer Sessions . . . . . 348

**T**

Trade or Business Schools . . . . . 351

**U**

Use of Public School Facilities for Adult Classes . . . . . 355

**V**

Veterans Resource Center / Service . . . . . 348

**W**

Where to Register . . . . . 349

Who May Attend . . . . . 349

Work Experience Credit . . . . . 351

## **SANTA ANA COLLEGE**

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