

2007-2009 CATALOG SUPPLEMENT

PUBLISHED SEPTEMBER, 2008





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This catalog supplement is provided for your convenience to give you a brief review of the catalog course and program changes which took place since our 2007-2009 catalog was printed until the Spring 2008 semester ended in May, 2008.

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Miscellaneous Modifications

Miscellaneous Modifications

Auditing a Class

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Application for Course Audit.

COS offers a course audit for all courses. Students must be initially registered in classes to receive units and to receive a grade or credit for a class. Students enrolled in classes to receive credit for ten (10) or more semester credit units shall not be charged a fee to audit three or fewer semester units per semester. Audit students may not attend class until fees have been processed. Scholarship or Financial Aid Assistance cannot be applied to Course Audit Classes. Students are to contact the Area Dean for the Application for Course Audit form.

Graduation and Transfer

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American Institutions: Remove, Item "1." Completion of a one-year high school Civics, U.S. History and/ or Government course with a minimum grade of "C" or better in both semesters.

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College of the Sequoias Associate Degree General Education Pattern

The following courses have been added to the identified Areas of the Associate Degree General Education Pattern effective 2008-2009:

AG 1	Ag, Society & Environment	AREA D
AJ 45	Terrorism & Freedom	AREA D
CHEM 25	Environmental Chemistry	AREA B
PHIL 6	Ethics of Living & Dying	AREA C
PSY 1	General Psychology	AREA D
PSY 10	Human Sexuality	AREA D
PSY 34	Abnormal Psychology	AREA D & E
SOC 1	Introduction to Sociology	AREA D
SOC 26	Marriage & Family Life	AREA D
SSCI 36	Introduction to Aging	AREA D

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California State University General Education Pattern

The following courses have been added to the identified Areas of the California State University General Education Pattern effective 2007-2008:

AG 1	Ag, Society & Environment	AREA D7
AJ 45	Terrorism & Freedom	AREA D0
ARCH 70	Architecture History 1	AREA C1
ARCH 71	Architecture History 2	AREA C1
CHEM 25	Environmental Chemistry	AREA B1
PHIL 6	Ethics of Living & Dying	AREA C2
PSY 1	General Psychology	AREA D9
PSY 10	Human Sexuality	AREA D9
PSY 34	Abnormal Psychology	AREA D9 & E
SOC 1	Introduction to Sociology	AREA D0
SOC 26	Marriage & Family Life	AREA D0
SSCI 36	Introduction to Aging	AREA D0

Miscellaneous Modifications**Graduation and Transfer****Page 63****Intersegmental General Education Transfer Curriculum**

The following courses have been added to the identified Areas of the Intersegmental General Education Transfer Curriculum Pattern effective 2007-2008:

AG 1	Ag, Society & Environment	AREA 4G
AJ 45	Terrorism & Freedom	AREA 4J
ARCH 70	Architecture History 1	AREA 3A
ARCH 71	Architecture History 2	AREA 3A
CHEM 25	Environmental Chemistry	AREA 5A
PHIL 6	Ethics of Living & Dying	AREA 3B
SSCI 36	Introduction to Aging	AREA 4J

Certificate and Degree Programs

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Certificate and Degree Programs

Agriculture Transportation
(New)

A.S. Degree: Not available
Certificate: 16 units with a minimum of a "C" grade in all courses.

ACHIEVEMENT CERTIFICATE

Certificate is comprised of one, 16 unit course designed to assist students in preparation for taking their DMV Commercial Driving test for a Class A license. The focus is on high demand jobs in agriculture commodity.

<u>Course Number</u>	<u>Core Course</u>	<u>Units</u>
AGTC 211	Agriculture Transportation -----	16
	Total Minimum Units Required: -----	16

Certificate and Degree Programs

Architecture (Modified, Page 95)

A.S. DEGREE, ACHIEVEMENT AND SKILL CERTIFICATES

Associate of Science Degree: Architecture courses (50 units) with a minimum "C" grade in all courses plus General Education (18 units) and graduation requirements for a total of 68 units.

Skill Certificate: The Architecture Program also offers four Skill Certificates.

A minimum "C" grade is required in all courses. The Skill Certificates are as follows: Architectural Drafting (16 units); Architectural Design (16 units); Architectural Visual Communication (12 units); and Architectural History (6 units).

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

Associate of Science Degree

The Associate of Science Degree in Architecture provides the basis for further study and employment in all aspects of environmental design, and enables students to transfer with credit in their major to university programs of architecture, interior design, planning, landscape architecture, product design, and civil engineering. It also provides the skills necessary for immediate employment in a technical capacity in architecture and allied professions.

First Semester

ARCH 10**	Architectural Design 1 -----	4 Units
ARCH 20**	Visual Communication 1 -----	3 Units
ARCH 70**	Architecture History 1 -----	3 Units
ARCH 160	Construction Materials and Methods -----	3 Units

Second Semester

ARCH 11	Architectural Design 2 -----	4 Units
ARCH 21**	Visual Communication 2 -----	3 Units
ARCH 71**	Architecture History 2 -----	3 Units
ARCH 120**	Freehand Drawing -----	3 Units

Third Semester

ARCH 112	Architect Digital Design 1 -----	4 Units
ARCH 162	Conceptual Structural Analysis -----	3 Units
DRFT 114	Introduction to CAD -----	4 Units

Fourth Semester

ARCH 113	Architect Digital Design 2 -----	4 Units
ARCH 161AD	Architectural Detailing (1 st Sem) -----	3 Units
ARCH 163	Construction Documents -----	3 Units
ARCH 121AC**	Perspective Alternatives (1 st Sem) -----	3 Units

Total Minimum Units Required for AS: ----- 50 Units

**ARCH 10, 20, 21, 70, 71, 120 and 121AC can be used for General Education.

Certificate and Degree Programs

Architecture (Modified, Page 95)

Achievement Certificate: Architecture courses (38 Units) with a minimum "C" grade in all courses.

Achievement Certificate

The Achievement Certificate in Architecture provides the knowledge, and skill necessary for successful employment as a draftsman/CAD technician in architectural or engineering firms, or in related construction fields. Architecture integrates social, cultural, technological, and aesthetic issues. Introductory courses in the field are appropriate for the general education of students of any major.

Note: The Mechanical Drafting Achievement Certificate is offered through the Drafting Technology Department.

ARCH 10	Architectural Design 1 -----	4 Units
ARCH 20	Visual Communication 1 -----	3 Units
ARCH 112	Architect Digital Design 1 -----	4 Units
ARCH 160	Construction Materials and Methods -----	3 Units
DRFT 114	Introduction to CAD -----	4 Units
ARCH 11	Architectural Design 2 -----	4 Units
ARCH 21	Visual Communication 2 -----	3 Units
ARCH 113	Architect Digital Design 2 -----	4 Units
ARCH 161AD	Architectural Detailing -----	3 Units
ARCH 162	Conceptual Structural Analysis -----	3 Units
ARCH 163	Construction Documents -----	3 Units

**Total Minimum Units Required
for Achievement Certificate ----- 38 Units**

Certificate and Degree Programs

Automotive Chassis Technology (Deleted, Page 100)

A.A. Degree:	Degree not available.
Certificate:	20 units in courses listed below with a minimum of a "C" grade in all classes.
Transfer Students:	Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

ACHIEVEMENT CERTIFICATE

This program offers pre-employment vocational training and primary skills for certification for the student desiring full-time employment as a technician at an exhaust, brake, tire and wheel, alignment and suspension repair facility. Completion of this certificate also provides the students the knowledge and skills necessary to obtain the ASE Underbody (X1) certification.

NOTE: Required and Support courses may be substituted with the approval of the Division Chair.

<u>Course Numbers</u>	<u>Core Courses</u>	<u>Units</u>
AUTO 130	Introduction to Automotive Technology -----	3
AUTO 134	Automotive Suspension/Steering System -----	4
AUTO 135	Automotive Brake Systems -----	4
AUTO 136	Automotive Electrical Systems -----	5
WELD 161	Oxyacetylene Welding-----	4
Minimum Core Course Units: -----		20

<u>Course Numbers</u>	<u>Core Courses</u>	<u>Units</u>
Select additional units from this list for further study.		
AUTO 254	Automotive Information Systems -----	2
Minimum Support Course Units: -----		0
Total Minimum Units Required: -----		20

Certificate and Degree Programs

Automotive Engine Performance
(Deleted, Page 103)

A.S. Degree: Degree not available.

Certificate: 22 units in courses listed below with a minimum of a "C" grade.

SKILL CERTIFICATE

This program offers pre-employment vocational training and primary skills for certification for the student desiring full-time employment as an Engine Performance Specialist Technician. All classes are designed to meet national certification and training standards for ASE testing and certification. It is expected that the student will develop job entry knowledge and skills necessary for the proper maintenance, service and repair of engine and power train control systems. A student may complete a certificate in one year by following the prescribed course of study.

NOTE: Required and support courses may be substituted with the approval of the Division Chair.

<u>Course Numbers</u>	<u>Core Courses</u>	<u>Units</u>
AUTO 130	Introduction to Automotive Technology -----	3
AUTO 136	Automotive Electrical Systems -----	5
AUTO 138	Automotive Engine Performance -----	6
AUTO 142	Automotive Fuel and Emissions -----	4
AUTO 143	Advanced Automotive Computer Control Systems -----	4
Minimum Core Course Units: -----		22

<u>Course Numbers</u>	<u>Support Courses</u>	<u>Units</u>
AUTO 253AD	BAR Alternative Training -----	3
AUTO 254	Automotive Information Systems -----	2
AUTO 263AD	Basic Clean Air Car Course -----	3
AUTO 264AD	Advanced Clear Air Car Course -----	2.5
AUTO 265	Alternate Fuel Vehicles -----	2
Minimum Support Courses Units: -----		0
Total Units required: -----		22

Certificate and Degree Programs

Automotive Power Train Systems Technology (Deleted, Page 105)

A.S. Degree: Degree not available.

Certificate: 18 units in courses listed below with a minimum of a "C" grade.

SKILL CERTIFICATE

This program offers pre-employment vocational training and primary skills for certification for the student desiring full-time employment and repair in the area of power train systems which include automatic and manual transmissions and clutch repair facilities. All classes are designed to meet national certification and training standards for ASE testing and certification.

NOTE: Required and support courses may be substituted with the approval of the Division Chair.

<u>Course Numbers</u>	<u>Core Courses</u>	<u>Units</u>
AUTO 130	Introduction to Automotive Technology -----	3
AUTO 132	Automotive Automatic Transmissions -----	4
AUTO 133	Automotive Power Train Systems -----	4
AUTO 136	Automotive Electrical Systems -----	5
AUTO 254	Automotive Information Systems -----	2
	Total Minimum Units Required: -----	18

Certificate and Degree Programs

Banking
(Deleted, Page 107)

A.S. Degree: Degree not available.
Certificate: 26 units in courses listed below with a minimum of a "C" grade in all classes.
Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

ACHIEVEMENT CERTIFICATE

This certificate is designed to equip the student with knowledge and skills needed for an entry-level position in the banking industry.

NOTE: Required and support courses may be substituted with the approval of the Division Chair.

<u>Course Numbers</u>	<u>Core Courses</u>	<u>Units</u>
BUS 82	Introduction to Business	3
BUS 184	Business Communications	3
BUS 195	Ethics in Business and Industry	3
BUS 240	Banking Skills	2
BUS 268	Electronic Calculating	2
BUS 295	Business Mathematics	3
COMP 5	Computer Concepts (4)	4
or COMP 130	Introduction to Personal Computers (4)	4
Minimum Core Course Units:		20

<u>Course Numbers</u>	<u>Support Courses</u>	<u>Units</u>
Select 6 additional units from this list to complete the requirements for this certificate.		
BUS 100	Career Strategies	3
BUS 112/COMM 112	Public Speaking for Business	4
BUS 174	Marketing Principles	3
BUS 188	Human Relations in Business	3
BUS 230	Supervision, Management/1 st Line Supervisor	3
BUS 293	Business English	4
Bus 297	Personal Finance	3
WEXP 1931-1961	Business Internship/Work Experience	1-4
Minimum Support Course Units:		6
Total Minimum Units Required:		26

Certificate and Degree Programs

Bookkeeping

(Deleted, Page 109)

A.S. Degree: Degree not available.

Certificate: 18 units in courses listed below with a minimum of a "C" grade in all classes.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

ACHIEVEMENT CERTIFICATE

Students completing the Bookkeeping Certificate will have the necessary skills to perform the basic bookkeeping requirements of the general business office.

NOTE: Required and support courses may be substituted with the approval of the Division Chair.

<u>Course Numbers</u>	<u>Core Courses</u>	<u>Units</u>
ACCT 1	Principles of Accounting (4)	4-5
ACCT 101	Essentials of Accounting (5)	3
ACCT 210/COMP 210	Computer Accounting	3
BUS 20	Business Statistics (3)	
or BUS 119	Quantitative Methods (3)	
or BUS 295	Business Mathematics (3)	3
BUS 100	Career Strategies	3
BUS 268	Electronic Calculating	2
COMP 138	Spreadsheet Design for Business (3)	
or COMP 223AD	Beginning Excel (1.5)	
and COMP 224AD	Advanced Excel (1.5)	3
Minimum Core Course Units:		18
<u>Course Numbers</u>	<u>Support Courses</u>	<u>Units</u>
BUS 185	Ethics in Business and Industry	3
BUS 188	Human Relations in Business	3
Minimum Support Course Units:		0
Total Minimum Units Required:		18

Certificate and Degree Programs

Computer Applications
(Modified and Reinstated)

Note: This Certificate was modified in error in the 2007-2009 College of the Sequoias catalog. It appears correct in the College of the Sequoias Program Inventory with the State Chancellor's Office.

Degree: Degree not available
Certificate: 37 units in courses listed below with a minimum of a "C" grade in all courses.

ACHIEVEMENT CERTIFICATE

Students with a Computer Applications certificate will be prepared for entry-level positions requiring computer applications skills. Students must earn a Word Processing Certificate prior to earning the Computer Applications certificate.

Note: Required and support courses may be substituted with the approval of the division chair.

<u>Course Numbers</u>	<u>Core Courses</u>	<u>Units</u>
	Word Processing Certificate -----	17
BUS 112/SPCH 1112	Public Speaking for Business (4) -----	4
COMP 133	Database Processing -----	3
COMP 135	Desktop Publishing for Business -----	4
COMP 138	Spreadsheet Design for Business -----	3
COMP 229	Web Page Design and Development -----	3
	Minimum Core Units -----	34

<u>Course Numbers</u>	<u>Support Courses</u>	<u>Units</u>
Choose three (3) additional units from the list below to complete this certificate.		
BUS 20	Business Statistics (3)	
or BUS 119	Quantitative Methods (3)	
or BUS 295	Business Mathematics (3) -----	3
BUS 188	Human Relations in Business -----	3
BUS 82	Introduction to Business -----	3
BUS 100	Career Strategies -----	3
BUS 185	Ethics in Business and Industry -----	3
BUS 293	Business English -----	4
COMP 210/ACCT 210	Computer Accounting -----	3
COMP 227AD	Presentation Software for Business -----	1.5
IT 110	PC Trouble Shooting/Repair -----	3
WEXP 193 I-196 I	Business Internship/Work Experience -----	1-4
	Minimum Support Courses -----	3
	Total Minimum Units Required -----	37

Certificate and Degree Programs

Computer Applications/Information Systems (Deleted, Page 121)

Degree: Degree not available.

Certificate: 37 units in courses listed below with a minimum of a "C" grade in all courses.

ACHIEVEMENT CERTIFICATE

Students with a Computer Applications/Information Systems Certificate will be prepared for entry-level positions requiring computer applications skills. Students must earn a Word Processing Certificate prior to earning the Computer Applications/Information Systems Certificate.

NOTE: Required and Support courses may be substituted with the approval of the Division Chair.

<u>Course Numbers</u>	<u>Core Courses</u>	<u>Units</u>
See Page 204	Word Processing Certificate -----	17
BUS 112/SPCH 112	Public Speaking for Business (4) -----	4
BUS 188	Human Relations in Business -----	3
COMP 133	Database Processing -----	3
COMP 135	Desktop Publishing for Business -----	4
COMP 138	Spreadsheet Design for Business -----	3
COMP 229	Web Page Design and Development -----	3
Minimum Core Course Units: -----		37

<u>Course Numbers</u>	<u>Support Courses</u>	<u>Units</u>
<i>or</i> BUS 20	Business Statistics (3)	
<i>or</i> BUS 119	Quantitative Methods (3)	
BUS 295	Business Mathematics (3) -----	3
BUS 82	Introduction to Business -----	3
BUS 100	Career Strategies -----	3
BUS 185	Ethics in Business and Industry -----	3
COMP 210/ ACCT 210	Computer Accounting -----	3
COMP 227AD	Presentation Software for Business -----	1.5
IT 110	PC Trouble Shooting/Repair -----	3
WEXP 193 I-196 I	Business Internship/Work Experience -----	1-4
Minimum Support Course Units: -----		0
Total Minimum Units Required: -----		37

Certificate and Degree Programs

**Computer & Information Systems
(Reinstated)**

Degree: Certificate courses with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units.
Certificate: 30 units in courses listed below with a minimum of a "C" grade in all courses.
Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

ACHIEVEMENT CERTIFICATE

Students with a Computer and Information Systems certificate or degree will be prepared for entry-level computer positions such as data entry, technical support, and office positions involving computer skills.

<u>Course Numbers</u>	<u>Core Courses</u>	<u>Units</u>
BUS 82	Introduction to Business -----	3
COMP 5	Computer Concepts (4)	
or COMP 130	Introduction to Personal Computers (4) -----	4
COMP 6	Programming Fundamentals -----	3
COMP 8	Programming Concepts (Java) -----	4
COMP 133	Database Processing -----	3
COMP 136	Word Processing -----	3
COMP 138	Spreadsheet Design for Business (3)	
or COMP 223AD	Beginning Excel (1.5) and	
COMP 224AD	Advanced Excel (1.5) -----	3
COMP 140	Windows -----	3
IT 110	PC Troubleshooting/Repair -----	3
	Minimum Core Units -----	29

<u>Course Numbers</u>	<u>Core Courses</u>	<u>Units</u>
Select at least 1 additional unit from this list to complete the certificate.		
ACCT 101	Essentials of Accounting (5)	
or ACCT 001	Financial Accounting (4) -----	4 or 5
BUS 112/SPCH 112	Public Speaking for Business -----	4
BUS 155	E-Commerce -----	3
BUS 184	Business Communications -----	3
BUS 185	Ethics in Business and Industry -----	3
BUS 188	Human Relations in Business -----	3
COMP 9	Advanced Application Software -----	3
COMP 135	Desktop Publishing for Business -----	4
COMP 210/ ACCT 210	Computer Accounting -----	3
COMP 227	Presentation Software for Business -----	1.5
COMP 228	Introduction to the World Wide Web -----	1
COMP 229	Web Page Design & Development -----	3
COMP 230	Java Script/XML -----	3
IT 120	Computer Networking Fundamentals -----	3
	Minimum Support Course Units -----	1
	Total Minimum Units Required -----	30

Certificate and Degree Programs

Educational Paraprofessional (Inactive, Page 133)

A.A. Degree: Degree Not Available
Certificate: 47 units listed below with a minimum of a "C" grade in all courses.

ACHIEVEMENT CERTIFICATE

The Educational Paraprofessional Certificate Program is designed to prepare individuals to work in K-12 educational facilities as paraprofessional in instructional programs. Many people in this occupation work directly in the classroom assisting the teacher, while others work at schools in libraries, instructional media/ resource centers or in special programs. Support courses are taken to complete the unit certificate requirements and can be chosen to support the area in which the paraprofessional desires to work.

Note: Required and Support courses may be substituted with the approval of the Division Chair.

<u>Course Numbers</u>	<u>Core Courses</u>	<u>Units</u>
CHLD 39/PSY 39	Child Development – DS 1 -----	3
CHLD 152	School Age Child Care – DS 5 -----	3
CHLD 160	Literacy and Language in Child -----	3
CHLD 136	Children’s Literature – DS3 -----	3
MATH 360	Pre-Algebra (Or higher level math course) -----	4
IS 241	Math Learning -----	2
ENG 360	Reading and Writing Skills (6)	
or BUS 293	Business English (4) -----	4-6
ENGL 270	Reading Instruction for K-12 -----	2
ENGL 275	Writing Mechanics -----	2
COMP 130	Introduction to Personal Computers (4)	
or COMP 220	Essential Computer Concepts (2) -----	2-4
COMP 228	Introduction to World Wide Web (1)	
or LIBR 102	Internet Information Resources (1) -----	1
BIOL 200	California Natural History (3)	
or NSCI 132	Biology and Earth Science for Educators (4) -----	3-4
SSCI 276	America (3)	
or HIST 17	People of the United States to 1865 (3) -----	3
HW 1	Personal and Community Health -----	3
EDUC 150	Introduction to Teaching -----	2
EDUC 230	CBEST Test Preparation -----	1
WEXP 193 K	Work Experience (1 st semester) -----	1
	Total Core Course Units -----	42-47
<u>Course Numbers</u>	<u>Support Courses</u>	<u>Units</u>
Select additional units from this list to complete the total units required.		
CHLD 134	Child Abuse Prevention -----	3
CHLD 138	Science Experience in School-Age Education -----	1
CHLD 148	Child Health and Safety – DS 7 -----	3
CHLD 158	Cultural Diversity in ECE -----	3
CHLD 163 AD	After School Programs -----	4
COMP 133	Data Base Processing -----	3
LIBR 101	Library Research Strategies -----	1
LIBR 201	Introduction to Library Services -----	2
LIBR 203	Library Technical Services -----	3
LIBR 204	School / Children’s Services -----	3
	Minimum Support Course Units: -----	0-5
	Total Minimum Units Required -----	47

Certificate and Degree Programs

Engineering
(Modified, Page 137)

- A.S. Degree:** 38 units with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units.
- Certificate:** Certificate not available.
- Transfer**
- Students:** Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

ASSOCIATE OF SCIENCE DEGREE

Students receiving the associate degree in engineering usually transfer to four-year institutions to complete their bachelor's degree in engineering. Employment opportunities will depend on the area of specialization and the economic state of the various industries hiring those specializations. For this reason students are urged to gain as broad an exposure to the field as possible.

<u>Course Numbers</u>	<u>Core Courses</u>	<u>Units</u>
CHEM 1	General Chemistry -----	5
ENGR 1	Engineering Graphics -----	4
ENGR 2	Statics -----	3
ENGR 3	Materials -----	3
PHYS 5	Physics for Engineers 1 -----	4
PHYS 6	Physics for Engineers 3 -----	4
PHYS 7	Physics for Engineers 3 -----	4
ENGR 110	Introduction to Engineering -----	1
MATH 75	Calculus 1 -----	5
MATH 76	Calculus 2 -----	5
	Minimum Core Units -----	38

<u>Course Numbers</u>	<u>Support Courses</u>	<u>Units</u>
Select additional units from this list for further study.		
MATH 77	Calculus 3 -----	3
MATH 80	Linear Algebra -----	3
MATH 81	Differential Equations -----	5
	Minimum Support Courses -----	0
	Total Minimum Units Required -----	38

Certificate and Degree Programs

ESL Beginning Level Certificate of Completion

(New)

NONCREDIT CERTIFICATE

Coursework in English as a Second Language is intended for students whose first language is other than English. The program differs from that offered in adult school in its rigor and focus. Beginning courses are designed for students with minimal skills in one or more of the reading, writing, speaking and listening areas. The program seeks to support and encourage students as they take coursework elsewhere in the college curriculum and thus many students take coursework simultaneously in ESL and in other disciplines

<u>Course Numbers</u>	<u>Core Courses</u>	<u>Hours</u>
ESL 402	Beginning Writing/Grammar 1	108
ESL 403	Beginning Reading/Vocabulary 1	54
ESL 410	Beginning Writing/Grammar 2	108
ESL 411	Beginning Reading/Vocabulary 2	54
ESL 412AB	Beginning Pronunciation/Speaking	36
Total hours Required for Certificate		360

Certificate and Degree Programs

ESL Intermediate Level Certificate of Completion (New)

NONCREDIT CERTIFICATE

Coursework in English as a Second Language is intended for students whose first language is other than English. The program differs from that offered in adult school in its rigor and focus. This intermediate certificate is designed for students with minimal skills in one or more of the reading, writing, speaking and listening areas. The program seeks to support and encourage students as they take coursework elsewhere in the college curriculum, and thus many students take coursework simultaneously in ESL and in other disciplines.

<u>Course Numbers</u>	<u>Core Courses</u>	<u>Hours</u>
ESL 420	Intermediate Writing/Grammar 3	108
ESL 421	Intermediate Reading/Vocabulary 3	54
ESL 430	Intermediate Writing/Grammar 4	108
ESL 431	Intermediate Reading/Vocabulary 4	54
ESL 432AB	Intermediate Pronunciation/Speaking	36
Total hours Required for Certificate		360

Certificate and Degree Programs

ESL Advanced Level Certificate of Completion

(New)

NONCREDIT CERTIFICATE

Coursework in English as a Second Language is intended for students whose first language is other than English. The program differs from that offered in adult school in its rigor and focus. This advanced course is equivalent to the developmental composition courses in the English department but stress improvement of the skills with an emphasis on the special needs of the non-native speaker.

<u>Course Numbers</u>	<u>Core Courses</u>	<u>Hours</u>
ESL 440	Advanced Writing/Grammar 5	108
ESL 441	Advanced Reading/Vocabulary 5	54
ESL 450	Advanced Writing/Grammar 6	54
ESL 451	Advanced Reading/Vocabulary 6	54
ESL 452AB	Advanced Pronunciation/Speaking	72
Total hours Required for Certificate		342

Certificate and Degree Programs

Liberal Arts with an Area of Emphasis -AA Degree (Modified, Page 166)

A.A. Degree:	18 Units minimum in General Education requirements with a "C" grade or better and a minimum of 18 units with a "C" grade or better from one of the areas of emphasis.
Certificate:	Not available.

LIBERAL ARTS ASSOCIATE OF ARTS DEGREE WITH AREAS OF EMPHASIS

The Liberal Arts Associate of Arts Degree with Areas of Emphasis provides an opportunity for students not intending to transfer to a 4-year university to earn an Associate of Arts Degree in a broad area of study. This degree is designed to prepare students for life in the global community by developing a core of knowledge, skills, and attitudes essential for personal and professional success.

DEGREE REQUIREMENTS:

- GENERAL EDUCATION:** Complete Associate Degree General Education, subject, and competency graduation requirements (minimum 18 units).
- AREA OF EMPHASIS:** Complete a minimum of 18 units with a "C" grade or better from one Area of Emphasis. Courses used to fulfill the general education requirements listed above may be counted as part of the 18 units necessary for an Area of Emphasis.

A. ARTS & HUMANITIES:

These courses emphasize the study of cultural activities and artistic expressions of human beings. Students will develop an awareness of the ways in which people throughout the ages and in different cultures have responded to themselves and the world around them in artistic and cultural creation. Students will also develop aesthetic understanding and an ability to make value judgments.

Students should complete a minimum of 18 units from the following Arts and Humanities courses:

ANTH #4, #5; ART 1, 2, 3, #4, #5, #6, #7, 8, 9, 10AD, 11AD, 12AD, 13AD, 15, 16AC, 17AD, 18AD, 23AD, 25AD, 32AD, 101AD, 105AC, 11AD, 119AD, #121AC, 124AD, 126AD, 127, 128AD, 129AD, 130AC; CFS #6, #7; CINA 31, 32; DRAM 1, 2, 3, 4, 5, 6, 8, 9, 11AD, 12AB, 13AB, 14AB, 15AB, 16AB, 17AB, 18AB, 19AD, 20AD, 21AD, 22AD, 30AB, 40AB, 101AD, 102AB, 120AD, DRAM 180AD; MUS 1, 4, 5, 6, 7, 10, 11, 13, 20AD, 21AD, 22AD, 23AD, 30AD, 31AD, 32AD, 34AD, 35AD, 36AD, 40AD, 41AD, 50AD, 53AD, 54AD, 55AB, 56AB, 57AD, 60AD, 61AD, 62AD, 65AD, 66AD, 72AD, 73AD, 74AD, 75AD, 76AD, 90AD, 91AD, 93AD, 93AD, 94AD, 95AD, 97AD, 111AB, 114, 115, 124AD, 125AD, 126AD, 127, 133AD, 147AD, 174AD, 180, 181, 182, 183AD; OH 11; WELD #105AC

ASL 1,2,3,4, 110AD; AJ 123; ARCH 10, 20, 21, 70, 71, 120, 121AC, BUS #185; ENGL 4, 10, 14AB, 15, 16, 17, 18, 19, 25, 30, 31, 44, 45, 46; ETHN 1, 2, 3, 4; FREN 1, 2, 3, 4, ITEC #185; INTD 121, 124; LING 10, 111; PHIL 1, 5, 12, 13, 14, 17, 20, 25, 106, 115; PORT 1, 2; SPAN 1, 2, 3, 4, 12, 22, 23, 24, 180

ANTH 4 & 5 same as ART 4 & 5; CFS 6 & 7 same as ART 6 & 7; BUS 185 same as ITEC 185;
ART 105AC same as WELD 105AC

Certificate and Degree Programs

Liberal Arts with an Area of Emphasis -AA Degree (Modified, Page 166)

B. COMMUNICATION STUDIES:

These courses emphasize the principles and applications of language toward logical thought, clear and precise expression and critical evaluation of communication in whatever symbol system used.

Students should complete a minimum of 18 units from the following Communication Studies courses:

AJ #25; AG 201; AGMT 102; BUS 20, #25, #112, 119, 184, 295; COMM 1, 4, 5, 7, 8, #112; COMP 5, 6, 7; ENGL 1, 2, 251; GOVT #7, #25; ITEC 201; JOUR #7; MATH 10, 11, 21, 45, 70, 75, 76, 77, 80, 81, 154, 200, 205, 230, 235; PHIL 20, 25, 28;

AJ 25 same as BUS 25 & GOVT 25; BUS 112 same as COMM 112; GOVT 7 same as JOUR 7

C. HEALTH AND PHYSICAL EDUCATION:

The health and nutrition courses emphasize practical and theoretical knowledge necessary for maintenance of physical and mental health. The physical education and intercollegiate athletics courses provide students the opportunity to develop active and healthy life styles.

Students should complete a minimum of 18 units as follows:

1. A minimum of 9 units from the following health and wellness courses:
HW 1, 3, 7, #60, 104, 119; NUTR 18, 119; SMED 40, #60
2. A minimum of 9 units from the following physical education courses:
PE 1AD, 2AD, 3AD, 4AD, 5AB, 6AD, 9AD, 10AD, 11AD, 12AD, 14AD, 15AD, 16AD, 17, 18AB, 19AB, 21AD, 22AD, 23AD, 24AD, 25AD, 26AD, 27, 28, 29AD, 30AB, 31AB, 32AB, 33AD, 34AB, 35AB, 36, 37, 52AD, 55AD, 57AD, 63AD, 64AD, 66AD, 67AD, 68AD, 70AD, 71AD, 72AD, 73AD, 74AD, 75AD, 76AD, 80AD, 81AD, 83AD, 89AD, 93AD, 119, 142AD, 178AD, 179AD, 180AD, 183AD, 188, 243AD; IA 1AD, 2AD, 3AD, 6AD, 7AD, 8AD, 10AD, 11AD, 12AD, 15AD, 16AD, 23AD, 24AD, 29AD, 30AD, 31AD

HW 60 same as SMED 60

D. NATURAL SCIENCE:

These courses emphasize experimental methodology, testing hypotheses, and the power of systematic questioning. Students will develop a comprehension of the basic concepts of physical and biological sciences, and a sophisticated understanding of science as a human endeavor, including the limitations as well as the power of scientific inquiry.

Students should complete a minimum of 18 units from the following Natural Science courses:

AG 4; ANTH 11; ASTR 10; BIOL 1, 2, 20, 21, 22, 25, 30, 31, 40, 60; CHEM 1, 2, 20, 21, 30; GEOG 1, 1L; GEOL 1, 4, 12; MET 1; NSCI 131, 132; NUTR 18; OH 101; PHYS 5, 6, 7, 20, 21; PLSI 1; PSCI 20

E. SOCIAL AND BEHAVIORAL SCIENCES:

Certificate and Degree Programs

Liberal Arts with an Area of Emphasis -AA Degree
(Modified, Page 166)

These courses allow students to gain a basic knowledge of the cultural and social organizations in which they exist as well as the behavior and social organizations of other human societies. Students will develop an understanding of the perspectives and methods of the social and behavioral sciences.

Students should complete a minimum of 18 units from the following Social and Behavioral courses:

AGMT 1; AJ 11, #25, 114; ANTH 10, 12; BUS #25, 188; CFS 80, #26; CHLD #39, 42, 158, 160; COMM 9; CFS #136; ETHN 1, 2, 3, 4, 5; ECON 40, 50; FASH 179; GEOG 2, 3; GOVT 5, #7, #25; HIST 4, 5, 17, 18, 23, 24, 25; JOUR #7, 20; NUTR 20; PSYCH 1, 5, 10, 34, #39; SOC 1, 2, 23, 43, #26; SSCI 10, #136, 276

AJ 25 same as BUS 25 & GOVT 25; CFS 26 same as SOC 26; CHLD 39 same as PSY 39;
GOVT 7 same as JOUR 7; CFS 136 same as SSCI 136

3. **ELECTIVE UNITS:** Complete the balance of 60 degree applicable elective units with courses numbered 1-299.

Certificate and Degree Programs

Library Technician (Deleted, Page 167)

Degree: Degree not available.

Certificate: 17 units in courses listed below with a minimum of a "C" grade in all courses.

SKILL CERTIFICATE

Today, more than ever, libraries provide a variety of resources to help people of all ages read, learn and connect with resources that are needed for school, work or personal fulfillment. Libraries have become the navigator for exploration in the world of information. Electronic catalogs, on-line databases, and networks provide almost unlimited access to this world.

The COS Library Technician Certificate leads to employment in school, college or public libraries as library technicians, library media clerks, or library media specialists.

NOTE: Required and support courses may be substituted with the approval of the Division Chair.

<u>Course Numbers</u>	<u>Support Courses</u>	<u>Units</u>
<u>First Semester</u>		
LIBR 201	Introduction to Library Services -----	2
LIBR 203	Library Technical Services -----	3
<u>Second Semester</u>		
LIBR 202	Library Collection Development -----	2
LIBR 204	School / Children's Services -----	3
<u>Third Semester</u>		
LIBR 205	Library Media Services -----	2
LIBR 206	Public Service / Reference -----	3
Minimum Core Course Units: -----		15

<u>Course Numbers</u>	<u>Support Courses</u>	<u>Units</u>
Select a minimum of 2 units from the following courses.		
LIBR 101	Library Research Strategies -----	1
LIBR 102	Internet Information Resources -----	1
LIBR 103	Evaluating Information Sources -----	1
WEXP 193 R – 195 R	Library Work Experience (first, second, and third semesters) --	1-3
Minimum Support Course Units -----		2
Total Minimum Units Required: -----		17

Transfer Studies with an Area of Emphasis -AA Degree (Modified, Page 200)

A.A. Degree: See below.
Certificate: Not available.

The Transfer Studies Associate of Arts Degree with Areas of Emphasis is designed for students planning to transfer to a university. With proper planning students may complete necessary transfer preparation courses and simultaneously complete the Transfer Studies Associate of Arts Degree with Areas of Emphasis. This degree includes seven Areas of Emphasis to provide flexibility in program planning.

The Transfer Studies Associate of Arts Degree with Areas of Emphasis is especially designed for students who want to participate in the Central Valley Higher Education Consortium (CVHEC) Guaranteed Transfer Program. Participating universities include: UC Merced, University of the Pacific, Fresno Pacific, CSU Bakersfield, CSU Fresno, and CSU Stanislaus (see counselor or visit www.CollegeNext.org for details). This degree is also appropriate for students planning to transfer to other California State University campuses, other University of California campuses, and many independent universities.

Successful transfer and completion of a baccalaureate degree without taking unnecessary courses requires proper planning and students are encouraged to develop a transfer plan in consultation with a counselor and to refer to www.ASSIST.org for current articulation of courses required for their baccalaureate degree.

DEGREE REQUIREMENTS:

1. **GENERAL EDUCATION:** Complete one of the following General Education Patterns with a "C" grade or better in each course.
 - A. California State University General Education Certification (CSU GE) for transfer to CSU (minimum 39 units)*
 - B. Intersegmental General Education Transfer Curriculum Certification (IGETC) for transfer to CSU or UC (minimum 34 units)*
 - C. COS Associate Degree General Education including, subject and competency graduation requirements (minimum 18 units). **

*Completion of either CSU GE or IGETC Certification fulfills Associate Degree General Education, subject, and competency graduation requirements. These two options are appropriate for students who want to participate in the Central Valley Higher Education Consortium (CVHEC) Guaranteed Transfer Program.

** This option is appropriate for Bachelor's Degree majors that require extensive lower-division major preparation and completion of the CSU GE or IGETC is not recommended. This option is, however, not appropriate for students who want to participate in the Central Valley Higher Education Consortium (CVHEC) Guaranteed Transfer Program as it does not meet the program requirements.

2. **AREA OF EMPHASIS:** Complete a minimum of 18 units with a "C" grade or better from one Area of Emphasis. Choose an Area of Emphasis that is appropriate for your baccalaureate major (i.e., lower division major preparation and transfer general education courses should be used to meet this 18 unit requirement). Courses used to fulfill the general education requirements listed above may be counted as part of the 18 units necessary for an Area of Emphasis. Courses numbered 1-99 transfer to UC and courses numbered 1-199 transfer to CSU.

Certificate and Degree Programs

Transfer Studies with an Area of Emphasis -AA Degree (Modified, Page 200)

A. AGRICULTURE AND ENVIRONMENTAL SCIENCE:

These courses provide students the opportunity to gain practical and theoretical knowledge in specific disciplines within the field of agriculture. With proper course selection, students will acquire the discipline specific lower division skills and knowledge necessary for success in their chosen baccalaureate major.

This Area of Emphasis prepares students for baccalaureate majors including, but not limited to: Agricultural Business; Agricultural Education; Agricultural Science; Animal Science; Crop Science; Dairy Science; Environmental Horticulture Science; Forestry and Natural Resources; Fruit Sciences; Plant Science; and Viticulture.

Students should complete a minimum of 18 units from the following Agriculture and Environmental Science courses:

ACCT 1, 2, 101; AG 4, 105; AGMT 1, 102, 103, 104, 108AB; AGTC 103AC, 108, 106AB; ASCI 1, 2AB, 22, 103, 104, 107, 108AB, 110, 11, 112; BIOL 21, 22; BUS 20; CHEM 20, 21; DSCI 101, 102, 104, 105AD, 106AB, 108; MATH 21, 70, 75, 154; OH 2, 3, 101, 108, 109; PLSI 12, 103, 104, 113

B. ARTS AND HUMANITIES:

These courses encourage students to analyze and appreciate the works of philosophical, historical, literary, aesthetic and cultural importance. Students will develop intellect, imagination, sensibility and sensitivity, and be motivated to refine their affective as well as cognitive and physical faculties.

This Area of Emphasis prepares students for baccalaureate majors including, but not limited to: Art; English; Interior Design; Foreign Language; History; Linguistics; Music; Philosophy, and Theatre Arts.

Students should complete a minimum of 18 units from the following Arts and Humanities courses:

ANTH #4, #5; ART 1, 2, 3, #4, #5, #6, #7, 8; CFS #6, #7; CINA 31, 32; MUS 1, 4, 5, 6, 7, 10, 11, 13; DRAM 1, 2, 3, 6, 8, 9 ASL 1, 2, 3, 4; AJ 123; BUS 185; ENGL 4, 10, 15, 16, 17, 18, 19, 25, 30, 31, 44, 45, 46; ETHN 1, 2, 3, 4; FREN 1, 2, 3, 4, HIST 4, 5, 17, 18, 23, 25, LING 111; PHIL 1, 5, 12, 13, 14, 17; PORT 2; SPAN 1, 2, 3, 4, 12, 22, 23, 24

ANTH 4 & 5 same as ART 4 & 5; CFS 6 & 7 same as ART 6 & 7

C. BUSINESS:

These courses provide students the opportunity to gain practical and theoretical knowledge in specific disciplines within the various fields of business. With proper course selection, students will acquire the discipline specific lower division skills and knowledge necessary for success in their chosen baccalaureate major.

This Area of Emphasis prepares students for baccalaureate majors including, but not limited to: Business Administration; Community and Regional Development; Construction Management; Agricultural Business; Public Administration; and Health Administration.

Transfer Studies with an Area of Emphasis -AA Degree (Modified, Page 200)

Students should complete a minimum of 18 units as follows:

1. A minimum of 12 units from the following business courses:
ACCT 1, 2, 101; BUS 18, 25, 82, 112, 185; COMP 5, 130, 140;
CSCI 1, 2; ECON 40, 50; AGMT 1, 104, 108AB
2. A minimum of 3 units from the following mathematics courses:
BUS 20, 119, MATH 21, 154, 70, 75, 76

D. COMMUNICATION STUDIES:

These courses emphasize the content as well as the form of communication and provide an understanding of the psychological basis and social significance of communication. Students will learn to read, listen, speak, and write effectively. Students will also acquire the ability to distinguish fact from judgment, and belief from knowledge, to use inductive and deductive processes, and to recognize common logical errors or fallacies of language and thought.

This Area of Emphasis prepares students for baccalaureate majors including, but not limited to: Speech and Communication.

Students should complete a minimum of 18 units from the following Communication Studies Preparation courses:

AJ #25; BUS #25, #112; ENGL 1, 2; GOVT #25; PHIL 20, 25, 28; COMM 1, 4, 5, 7, 8, #112

AJ 25 same as BUS 25 & GOVT 25; BUS 112 same as COMM 112

E. ELEMENTARY TEACHING PREPARATION:

This area of emphasis is intended for students who plan to complete a baccalaureate degree and a California Multiple Subject Teaching Credential. Most students pursue this credential with the goal of becoming an elementary school or special education teacher.

This degree is designed to accommodate the differing requirements of the California State University and University of California campuses that offer the following [baccalaureate](#) majors: Liberal Studies, Interdisciplinary Studies, and Teacher Preparation (refer to www.ASSIST.org for current articulation for specific universities).

Students should complete a minimum of 18 units from the following Elementary Teaching Preparation courses:

AJ #25; ANTH 10; ART 1, 2, 3, 6, 7, 8, 11AD, 13AD, 15, 17AD, 23AD; BIOL 20, 22; BUS #25, #112; CFS 80; CHEM 20; CHLD #39; COMM 1, 4, 5, 7, 8, #112; COMP 5, 130; DRAM 1, 2; EDUC 50; ENGL 1, 2, 4, 10, 15, 16, 17, 18, 25, 14AB, 30, 31, 44, 45; ESCI 1; ETHN 1, 23, 4; GEOG 1, 1L, 2, 3; GEOL 1; GOVT 5, #25; HIST 17, 18, 23, 25; HW 1; LING 10, 111; MATH 10, 11, 21, 45, 70; MUS 1, 10, 13; NSCI 131; PHIL 1, 5, 12, 17, 20, 25; PHOT 1; PSCI 20; PSY #39; SOC 1; SSCI 10

AJ 25 same as BUS 25 & GOVT 25; BUS 112 same as COMM 112; CHLD 39 same as PSY 39

Certificate and Degree Programs

Transfer Studies with an Area of Emphasis -AA Degree (Modified, Page 200)

F. MATH AND SCIENCE:

The mathematics courses encourage the understanding of basic mathematical concepts, quantitative reasoning and their applications. The natural science courses emphasize experimental methodology, testing hypotheses, and the power of systematic questioning. Students will develop a comprehension of the basic concepts of physical and biological sciences, and a sophisticated understanding of science as a human endeavor, including the limitations as well as the power of scientific inquiry.

This Area of Emphasis Prepares students for baccalaureate majors including, but not limited to: Atmospheric Science; Biotechnology; Computer Science; Engineering; Enology; Food and Nutritional Sciences; Genetics; Health Science; Hydrology; Kinesiology; Natural Sciences; Pre-Nursing (B.S.N.); Physics; and all pre-professional majors: Pre-Med; Pre-Dental; Pre-Pharmacy; Pre-Physical Therapy; Pre-Optometry; Pre-Veterinary Med; and Pre-Chiropractic.

Students should complete a minimum of 18 units, including at least one mathematics course and at least one science course, from the following:

1. Mathematics: MATH 10, 11, 21, 45, 70, 75, 76, 77, 80, 81, 154; BUS 20, 119
2. Science: AG 4; ANTH 11; ASTR 10; BIOL 1, 2, 20, 21, 22, 25, 30, 31, 40, 60; CHEM 1, 2, 20, 21, 30; GEOG 1, 1L; GEOL 1, 4, 12; MET 1; PHYS 5, 6, 7, 20, 21; PLSI 1; PSCI 20

G. SOCIAL AND BEHAVIORAL SCIENCES:

These courses allow students to gain a basic knowledge of the cultural and social organizations in which they exist as well as the behavior and social organizations of other human societies. Students will develop an understanding of the perspectives and methods of the social and behavioral sciences.

This Area of Emphasis Prepares students for baccalaureate majors including, but not limited to: African American Studies; Anthropology; Chicano Studies; Child Development; Communicative Disorders; Criminology; Economics; Geography; History; Mass Communication and Journalism; Political Science; Psychology; Social Work; Sociology; Women's Studies.

Students should complete a minimum of 18 units from the following Social and Behavioral Science courses:

AGMT 1; AJ 11, #25, 114; ANTH 10, 12; BUS #25; CFS 80, #26; CHLD #39, 42; COMM 9; ETHN 1, 2, 3, 4, 5; ECON 40, 50; GEOG 2, 3; GOVT 5, #7, #25; HIST 4, 5, 17, 18, 23, 24, 25; JOUR #7; NUTR 20; PSYCH 1, 5, 10, 34, #39; SOC 1, 2, 23, 43, #26; SSCI 10

AJ 25 same as BUS 25 & GOVT 25; CFS 26 same as SOC 26; CHLD 39 same as PSY 39;
GOVT 7 same as JOUR 7

3. **ELECTIVE UNITS:** Complete the balance of 60 transferable elective units with courses numbered 1-199. Courses numbered 1-99 transfer to UC (see UC unit limitations in the Graduation and Transfer section of this catalog) and courses numbered 1-199 transfer to CSU.

Deleted Courses

Deleted Courses

DRAMA**DRAM 018AB****Advanced Theatre Crafts (page 247)****Justification:**

Course is no longer offered.

DRAM 202AD**Acting for the Camera (page 248)****Justification:**

Course is no longer offered.

ENGLISH**ENGL 205****Workplace Literacy (page 253)****Justification:**

Course is no longer offered.

LINGUISTICS**LING 010****Introduction to Language (page 275)****Justification:**

Course is no longer offered.

MATHEMATICS**MATH 390AD****Math 360 Support Course (page 277)****Justification:**

Course is no longer offered.

MATH 391AD**Math 200 Support Course (page 277)****Justification:**

Course is no longer offered.

MATH 392AD**Math 230 Support Course (page 277)****Justification:**

Course is no longer offered.

MATH 393AD**Math Support Course (page 277)****Justification:**

Course is no longer offered.

MUSIC**MUS 057AD****Advanced Classical Guitar (page 280)****Justification:**

Course is no longer offered.

MUS 065AD**Guitar Ensemble (page 280)****Justification:**

Course is no longer offered.

MUS 076AD**Pep Band (page 281)****Justification:**

Course is no longer offered.

MUS 090AD**College Community Chorus (page 281)****Justification:**

Course is no longer offered.

MUS 270AD**Dixieland Band (page 283)****Justification:**

Course is no longer offered.

MUS 277AD**Marching Band Outreach (page 283)****Justification:**

Course is no longer offered.

MUS 301**Introduction to Music (page 283)****Justification:**

Course is no longer offered.

NATURAL SCIENCE**NSCI 132****Biology/Earth Science (page 283)****Justification:**

Course is no longer offered.

NURSING**NURS 160****Transition Course****(not listed in 2007-2009 catalog)****Justification:**

Course is no longer offered.

NURS 125**Critical Care Nursing (page 284)****Justification:**

Course is no longer offered.

Reinstated/Omission Error
Courses

Reinstated Courses

Omission Errors

NUTRITION/FOODS

NUTR 106

Professional Cooking 2

*2 Lecture/Discussion hours per week and
3 Lab hours per week-3 units*

Course Description:

This class is designed so that performance standards meet employer expectations and enhance students' job market value. Students will demonstrate proficiency in food service skills, i.e., food presentation, sauces, meat cookery, baking and specialty cuisine.

Omission Errors

WORK EXPERIENCE

WEXP 193

Work Experience - 1st Semester

5 TO 20 Lab hours per week-1 to 4 units

This course is conducted to give the student occupational learning opportunities and career awareness. This is accomplished through employment (paid or volunteer) providing learning related to the student's educational or occupational goal. Limitation on Enrollment: Students must receive permission from the Coordinator of Cooperative Education or his/her designee to register.

New Courses

New Courses

AGRICULTURE**AG 102****Environmental Conservation***3 Lecture/Discussion hours per week-3 units***Course Description:**

A study of the world's environment to sustain the highest quality of life. Includes the study of food and fiber systems, ecology, populations, environmental pollution, bioterrorism, and conservation of natural resources including energy, water, soils, forest, rangelands, and wildlife.

AG 220**Alternative Energy Resources***1 Lecture/Discussion hours per week -1 unit***Equivalent Course: AUTO 220****Course Description:**

Students will explore alternatives to gasoline and diesel for fuels, as well as becoming familiar with other forms of Bio-energy.

AGRICULTURE TECHNOLOGY**AGTC 211****Agriculture Transportation***14 Lecture/Discussion hours per week and**6 Lab hours per week-16 units***Course Description:**

This course is designed to assist students in preparation for taking their DMV Commercial Driving test for a Class A License. The focus is on high demand jobs in agriculture commodity.

AUTO**AUTO 220****Alternative Energy Resources***1 Lecture/Discussion hours per week -1 unit***Equivalent Course: AG 220****Course Description:**

Students will explore alternatives to gasoline and diesel for fuels, as well as becoming familiar with other forms of Bio-energy.

AUTO**AUTO 255****Automotive Service Systems***36 Lecture/Discussion hours total and**18 Lab hours total-2 units*

Prerequisite: AUTO 130 or equivalent college course with a grade of "C" or better.

Course Description:

Students in this course will learn and apply the basic principles and applications required to perform the duties of a Service Consultant at an automotive facility. Customer relations will be the foremost topic of all work developed by the student. The course is also a preparation for the ASE C1 test.

CHEMISTRY**CHEM 025****Environmental Chemistry***3 Lecture/Discussion hours per week-3 units***Course Description:**

Fundamental principles of chemistry applied to current environmental issues. Principles include atomic and molecular structure, chemical calculations, gases and liquids, acids and bases, nuclear chemistry, polymers. Issues include air and water pollution, ozone depletion, global warming, energy waste disposal, nutrition. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with a grade of "C" or better or eligibility for ENGL 1 as determined by COS placement procedures.

CHLD 261**Play, Space and Guidance***3 Lecture/Discussion hours per week-3 units***Course Description:**

This course will focus on the importance of play for young children and how the learning environment, along with the age appropriate materials, promotes children's development. The class will explore how the environment affects behavior and students will learn strategies for guiding children's behavior.

New Courses

CHILD DEVELOPMENT**CHLD 310****Parenting for Education Success***.50 Lecture/Discussion hours per week-.5 units***Course Description:**

A course for parents to learn to take an active role in their child's education. Parents will learn how to navigate the school system for their child's success and understand the importance of their role in strengthening the partnership between home and school. Course repeatability is for school age levels: grade school, junior high and senior high. This class may be repeated two times.

CHLD 410**Parents for Student Success***Noncredit***Course Description:**

This is a non-credit course for parents to learn how to take an active role in their child's education. Parents will learn how to navigate the school system for their child's success and understand the importance of their role in strengthening the partnership between home and school.

COUNSELING**COUN 110****First Year Experience Seminar***3 Lecture/Discussion hours per week-3 units***Course Description:**

This course will provide students an opportunity to learn and adopt techniques, tools and methods that will enhance success in college, including goal-setting strategies; gain information about campus resources, regulations and graduation/transfer requirements; and use electronic databases, print resources and the Web for research purposes.

COUN 122AD**Peer Counseling***2 Lecture/Discussion hours per week-2 units***Course Description:**

This course focuses on utilizing and providing information from the COS catalog, the class schedule, student services, and community resources. Topics include academic policies, interpersonal communication skills, and peer counseling techniques. This course is required for participation in the college's Student Ambassador Program.

CULINARY**CULN 230AD****The Italian Table***.5 Lecture/Discussion hours per week and 1.5 Lab hours per week-1 unit***Course Description:**

Through lectures, demonstrations, and food preparation students will gain first-hand knowledge of a variety of culinary skills that will allow them to prepare Italian dishes. The course is repeatable four times to introduce students to the various regional foods and cooking techniques of Italy.

EDUCATION**EDUC 120****Technology Skills for Educators***3 Lecture/Discussion hours per week-3 units***Course Description:**

Information and hands-on explorations allow students to develop basic skills for using computer technology for productivity and instruction in educational settings. Major topics include basic computer terminology and functions, common computer applications (word processing, databases, spreadsheets, and presentation software), educational technology trends, and issues relating to the uses of computers in educational settings. Approved for distance education format. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better, or eligibility for ENGL 001 as determined by COS Placement procedures.

EDUC 310AD**Teacher Aide Test Preparation***1 Lecture/Discussion hours per week-1 unit***Course Description:**

Students review basic reading, writing, and math skills, understand test-taking strategies, acquire knowledge of techniques used to support instruction in reading, writing, and mathematics in schools. Provides preparatory class for instructional aide test to meet No Child Left Behind Act of 2001 requirements. This course emphasizes reading comprehension, English grammar and syntax, mathematics, basic writing skills, and other skills and dispositions necessary for supporting classroom instruction. Approved for distance education format. This course may be repeated three times.

New Courses

ENVIRONMENTAL TECHNOLOGY**ECT 266AD****Advanced Control Systems**

1.5 Lecture/Discussion hours per week and

1.5 Lab per week-2 units

Course Description:

ECT 266AD is an advanced controls course designed to introduce system setup, programming and application engineering of building automation control systems algorithms. To include temperature controls, lighting controls, access controls and CCTV. This course can be repeated three times.

Advisory on Recommended Preparation: ECT 265 or equivalent college course with "C" or better.

ENGLISH AS A SECOND LANGUAGE**ESL 402****Beginning Writing and Grammar 1**

Noncredit

Course Description:

This basic introduction course in English is designed for the true beginner with little or no knowledge of writing and grammar skills.

ESL 403**Beginning Reading/Vocabulary 1**

Noncredit

Course Description:

This is a beginning course in English reading and vocabulary and is designed for students to develop basic reading techniques, vocabulary and study skills.

ESL 410**Beginning Writing and Grammar 2**

Noncredit

Course Description:

This is a beginning course in English writing and grammar skills and is designed to expand basic writing and grammar skills for beginning level students.

ESL 411**Beginning Reading and Vocabulary 2**

Noncredit

Course Description:

This is a beginning course in English reading and vocabulary and is designed for students to develop and expand basic reading techniques, vocabulary and study skills.

ENGLISH AS A SECOND LANGUAGE**ESL 412AB****Beginning Pronunciation/Speaking**

Noncredit

Course Description:

A beginning course in English pronunciation and speaking skills. The course is designed for students to develop basic speaking skills and to comprehend and respond to basic spoken English.

ESL 420**Intermediate Writing/Grammar 3**

Noncredit

Course Description:

This is a low intermediate level course for students who have a basic foundation in English writing and grammar. The course focuses on grammar and paragraph writing.

ESL 421**Intermediate Reading/Vocabulary 3**

Noncredit

Course Description:

This is a low intermediate course in English reading and vocabulary and is designed to help students comprehend and respond to basic academic and vocational situations.

ESL 430**Intermediate Writing/Grammar 4**

Noncredit

Course Description:

This is a high intermediate level course for students who have a good foundation in English writing and grammar. This course focuses on grammar, paragraphs and narratives.

ESL 431**Intermediate Reading/Vocabulary 4**

Noncredit

Course Description:

This is a high intermediate course in English reading and vocabulary and is designed to expand reading techniques vocabulary and study skills so that students can comprehend and respond to intermediate-level academic and vocational situations.

New Courses

ENGLISH AS A SECOND LANGUAGE**ESL 432AB****Intermediate Pronunciation/Speaking***Noncredit***Course Description:**

This is an intermediate level course in English pronunciation and speaking skills, designed for students to improve speaking skills so that students can comprehend and respond to spoken English in academic and vocational settings. This course can be repeated one time.

ESL 440**Advanced Writing/Grammar 5***Noncredit***Course Description:**

This course is designed for intermediate advanced students with a working foundation in grammar and writing. This course is designed to review and build upon grammar and writing skills enabling the student to function in advanced academic and vocational writing environments.

ESL 441**Advanced Reading/Vocabulary 5***Noncredit***Course Description:**

This course is designed for intermediate advanced students with a working foundation in reading and vocabulary skills. The course expands reading techniques, vocabulary, and study skills so that the student can effectively respond to written and spoken English in Advanced academic and vocational environments.

ESL 450**Advanced Writing/Grammar 6***Noncredit***Course Description:**

This course is designed for high advanced students with a strong working foundation in grammar and writing. This course is designed to further review and refine grammar and writing skills enabling the student to successfully transition into more challenging college courses.

ENGLISH AS A SECOND LANGUAGE**ESL 451****Advanced Reading/Vocabulary 6***Noncredit***Course Description:**

This course is designed for high advanced students with a strong working foundation in reading and vocabulary skills. The course expands reading techniques, vocabulary, and study skills so that the student can effectively respond to written and spoken English in advanced academic and vocational environments.

ESL 452AB**Advanced Pronunciation/Speaking***Noncredit***Course Description:**

This is a high advanced level course in English pronunciation and speaking skills, designed to further develop functional spoken English for academic and vocational settings.

FIRE TECHNOLOGY**FIRE 249**

*36 total Lecture hours and
4 total Lab hours -2 units*

Course Description:

This is the first of a two part course which teaches the operation and maintenance of fire apparatus. It includes; driver responsibilities, inspections of operating systems, driving in adverse conditions, off road, and emergency responses.

Advisory on Recommended Preparation: Students are recommended to be currently employed as a full-time volunteer or seasonal fire fighter and possess a California Class "B" or California "Fire Fighter Restricted" drivers' license.

New Courses

FIRE TECHNOLOGY

FIRE 250

Driver Operator 1B

36 total Lecture hours and

4 total Lab hours -2 units

Course Description:

This is the second of a two part course, which teaches the operation and maintenance of fire apparatus. It is required by many fire departments prior to personnel being allowed to promote to Driver/Operator.

Advisory on Recommended Preparation: Students are recommended to be currently employed as a full-time volunteer or seasonal fire fighter and possess a California Class "B" or California "Fire Fighter Restricted" drivers' license.

HEALTH

HLTH 280

Interpreting in Health Care 1

2 Lecture hours per week-2 units

Course Description:

Provides a theoretical foundation for bilingual individuals to develop the awareness and knowledge necessary for effective language interpretation in health care settings. Emphasis on the roles and responsibilities of a health care interpreter and insight in language and cultural nuances for specific communities necessary in the art of interpretation.

INDUSTRY AND TECHNOLOGY

ITEC 280

Career Technical Education Academy

1 Lecture hour per week and

3 Lab hours per week-2 units

Course Description:

The CTE Summer Academy is a survey course for students to learn about educational and career opportunities in manufacturing and related industrial technology fields.

INDUSTRY AND TECHNOLOGY

ITEC 281

Introduction to Robotics

1 Lecture hour per week and

3 Lab hours per week-2 units

Course Description:

This course is built around the fundamental understanding of the systems that make up robots and the development of workplace competencies. The cornerstone of the class involves solving engineering design problems.

ITEC 300

Applied Measurement for the Workplace

1-4 Lecture hours per week-1-4 units

Course Description:

An easy-to-use, computerized, open-entry/open-exit applied mathematics course. This course teaches methods to solve one-step mathematical operations and to use these skills with work-related problems. Examples and situations focus on applying problem-solving skills in real-world situations. A variety of interactive exercises helps students practice each concept. A calculator function and formula sheet are available to the learner with a simple mouse-click. Detailed solutions to the problems are explained, allowing students to analyze their mistakes. A full human-voice sound track and immediate feedback aid learning.

ITEC 302

Reading for Information

1-4 Lecture hour per week -1-4 units

Course Description:

An easy-to-use, computerized, open-entry/open exit course designed to improve the student's comprehension of workplace communications such as memos, policies, procedures, legal constraints, safety guidelines, and other technically dense documents. Examples and situations focus on applying problem-solving skills in real-world situations. Uses a variety of interactive exercises so the learner can practice each concept. The course includes a full human-voice sound track and immediate feedback to aid learning.

New Courses

INDUSTRY AND TECHNOLOGY**ITEC 304****Locating Information***1-4 Lecture hour per week -1-4 units***Course Description:**

An easy-to-use, computerized, open-entry/open-exit course to develop skills in using information presented in workplace graphics such as memos, tables, charts, and graphs. Examples and situations focus on applying this ability in real-world situations. Uses a variety of interactive exercises so that the learner can practice each concept. A full human-voice sound track and immediate feedback aid learning. Non-graded. Approved only for on-line distribution.

MATHEMATICS**MATH 401****Preparation for Quantitative Qualifying Exams***Noncredit***Course Description:**

A survey of the strategies and skills needed to prepare for exams that require familiarity with 7-11th grade math standards. Test preparation strategies and study methods will assist students in performing better on college placement exams.

MUSIC**MUS 454****Symphony Orchestra for Seniors***Noncredit***Course Description:**

A course designed to offer opportunities for adults to participate in ensemble music with the Symphony Orchestra. Note: Field trips and outside of class performances maybe required.

MUS 466**Symphony Band for Seniors***Noncredit***Course Description:**

A course designed to offer opportunities for adults to participate in ensemble music with the Symphonic Band. Note: Field trips and outside of class performances may be required.

MUSIC**MUS 472****Jazz Ensemble for Seniors***Noncredit***Course Description:**

A course designed to offer opportunities for adults to participate in jazz ensemble music. Note: Field trips and outside of class performances may be required.

MUS 495**Community Chorus for Seniors***Noncredit***Course Description:**

A course designed to offer opportunities for adults to participate in ensemble music with the Community chorus. Note: Outside of class performances required.

PHYSICAL EDUCATION**PE 107AD****Pilates Mat Class***.5 Lecture/Discussion per week and**1.5 Activity hours per week-1 unit***Course Description:**

Pilates is a workout to condition and strengthen the muscles that support the spine. This Pilates Mat class is designed for all students and will develop flexibility, coordination, and balance through a safe progression of challenging and functional exercises. This course may be repeated three times.

PE 108AD**Yoga***.5 Lecture/Discussion per week and**1.5 Activity hours per week-1 unit***Course Description:**

Introduction to basic yoga poses with emphasis on forma and body alignment. Strength, flexibility, and balance emphasized in poses. Relaxation and breathing techniques also introduced. This class may be repeated three times.

PE 139AD**Team Sports***.50 Lecture/Discussion hours per week**1.5 Activity hours per week - 1 unit***Course Description:**

Team sports are a skills and fitness class in which students will learn and participate in multiple disciplines of Team Sports. Team Sports offered include Volleyball, Badminton, Floor Hockey, Basketball, Dodge ball, Frisbee, Golf, etc. See class schedule for particular sport(s) offered each semester.

PHYSICAL EDUCATION

PE 143AD

Inner Tube Water Polo

.50 Lecture/Discussion hours per week

1.5 Activity hours per week - 1 unit

Course Description:

This course provides students with an opportunity to develop fundamental skills of the sport of inner tube water polo, as well as an understanding of the team strategies and individual skills that are necessary to be successful in the class. This course may be repeated three times.

PE 310

Beginning Weight Training

1.5 Activity hours per week - .5 unit

Course Description:

This course is designed as a general introduction to weight training. Students will learn the proper lifting techniques and safety rules of free weights and weight machines.

Modified Courses

Modified Courses

ACCOUNTING

ACCT 001

Financial Accounting (page 207)

4 Lecture/Discussion hours per week-4 units

Modifications:

Addition of Distance Education Addendum for on-line instruction.

Change in Lecture/Discussion hours from 5 hours per week.

Revised Course Description: This course introduces students to fundamental business organization, recording of business financial activities, accounting statements preparation, interrelationships, and the analysis of financial activities for business entities with an emphasis on accounting for corporations. This course is approved for distance education format.
CAN BUS 2

ACCT 002

Managerial Accounting (page 207)

4 Lecture/Discussion hours per week-4 units

Modifications:

Addition of Distance Education Addendum for on-line instruction.

Change in Lecture/Discussion hours from 5 hours per week.

Revised Course Description: This is a second semester transfer-level course, which studies managerial control, job and process costing, activity based costing, standard costs, planning cost accumulation and capital budgeting and planning techniques; and other measuring and reporting methods. This course is approved for distance education format.

ADMINISTRATION OF JUSTICE

AJ 011

Introduction to Criminal Justice (page 207)

3 Lecture/discussion hours per week-3 units

Modifications: Addition of Distance Education Addendum for online, interactive TV, and correspondence instruction.

AJ 014

Criminal Law 1 (page 207)

3 Lecture/discussion hours per week-3 units

Modification: Five year review.

AJ 045

Terrorism and Freedom (page 209)

3 Lecture/discussion hours per week-3 units

Modification: Course number changed from AJ 145 to AJ 045 to comply with COS course number system indicating UC transfer.

ADMINISTRATION OF JUSTICE

AJ 112

Legal Aspects of Evidence (page 208)

3 Lecture/discussion hours per week-3 units

Modification:

Revised Course Description: The origin, development, philosophy, constitutional and procedural basis of evidence; judicial decisions and statutory rules of evidence governing the admissibility of testimony, writings and material objects.

CAN AJ 6

AJ 114

Juvenile Delinquency (page 208)

3 Lecture/discussion hours per week-3 units

Modifications:

Addition of Distance Education Addendum for online instruction.

Course outline updated.

Revised Course Description: This is an introductory course designed to explore the concept of juvenile delinquency. Emphasis is on defining delinquency, identifying delinquents, examining theories of causation, identifying institutions for delinquents and identifying community-based programs designated to prevent delinquency. This course is approved for distance education format. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 determined by COS Placement Procedures.

AJ 118

Criminal Investigation (page 208)

3 Lecture/discussion hours per week-3 units

Modification:

Course outline update.

AJ 123

Criminal Justice Ethics (page 208)

3 Lecture/discussion hours per week-3 units

Modifications: Addition of Distance Education Addendum for online instruction.

Revised Course Description: This course allows students the opportunity to explore ethical issues in the field of criminal justice through analysis and critical thinking and apply these concepts to both their professional and personal lives. This course is approved for distance education format.

Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better.

Modified Courses

AGRICULTURE

AG 001

Ag, Society & the Environment (page 208)

3 Lecture/discussion hours per week-3 units

Modifications:

Addition of Distance Education Addendum for online instruction.

Deletion of Advisory on Recommended Preparation.

Revised Course Description: The sociology of agriculture (Ag) is presented through examination of relationships between societies and their environments, economics and Ag. Emphasis is on analysis of agriculture's use of technology and the corresponding impact on the environment, economy, and society. Approved for Distance Education format.

AGRICULTURE MANAGEMENT

AGMT 001

Agriculture Economics (page 211)

3 Lecture/discussion hours per week -3 units

Modifications:

Change in Lecture and Lab hours from 3 Lecture/Discussion and 1 lab hour per week.

AGRICULTURE TECHNOLOGY

AGTC 214

Outdoor Power Equipment (page 212)

3Lecture/Discussion hours per week -3units

Modification:

5-year review-no changes specified

AMERICAN SIGN LANGUAGE

ASL 001

Beginning American Sign

Language 1 (page 214)

4 Lecture/discussion hours per week-4 units

Modification: Five year review.

ASL 002

Beginning American Sign

Language 2 (page 215)

3 Lecture/discussion hours per week-3 units

Modification: Five year review.

Change in TOP code to 085000 from Other education 089900.

AMERICAN SIGN LANGUAGE

ASL 003

Intermediate American Sign

Language (page 215)

3 Lecture/discussion hours per week-3 units

Modification: Five year review.

ASL 004

Advanced American Sign

Language (page 215)

3 Lecture/discussion hours per week-3units

Modification: Five year review.

Change in TOP code.

ASL 110AD

Sign Language Interpreting (page 215)

4 Lecture/discussion hours per week-4 units

Modification: Five year review.

ANIMAL SCIENCE

ASCI 001

Introduction to Animal Science (page 215)

2Lecture/discussion hours per week and

3 Lab hours per week-3 units

Modifications:

Change in Lecture hours from 3 Lecture hours per week and 1 Lab hour per week.

Revised Course Description: The course surveys the livestock industry, supply of animal products and their uses and analyzes economic trends and career opportunities in animal agriculture. Special emphasis is on the origin, characteristics, adaptation and contributions of farm animals to the Ag industry.

ASCI 103

Animal Nutrition (page 215)

3Lecture/discussion hours per week and

1 Lab hours per week-3 units

Modifications:

Five year update.

Advisory on Recommended Preparation deleted.

Revised Course Description:

In this course, the fundamentals of digestion and absorption in both ruminants and non-ruminants are discussed. The nutritive value of feeds as they relate to formulation of livestock rations are emphasized.

Modified Courses

ARCHITECTURE**ARCH 120****Freehand Drawing (page 218)***2 Lecture/Discussion hours per week**3 Lab hours per week-3 units***Modifications:****Change in Lecture/Discussion hours from 2 Lecture/Discussion hours and 2 Lab hours per week.****Revised Course Description:** An introductory course of freehand drawing techniques applicable to the design and construction of the built environment. Freehand drawing is an integral part of the architect's design process. It is instrumental in concept development, creative problem solving, documenting and perceiving space, visualization, and observation skills. Techniques include shading, shape definition, form definition, human scale, and entourage utilizing pencil, ink, color media, and combination media. Advisory added: Advisory on Recommended Preparation: ARCH 020 or equivalent college course with "C" or better.AUTOMOTIVE TECHNOLOGY**AUTO 254****Automotive Information Systems (page 224)***1 Lecture/discussion hours per week and**3 Lab hours per week-2 units***Modifications: Lecture and Lab hours changed from 2 Lecture hours per week and 1 lab hour per week.****AUTO 267****Automotive Brake and Suspension Service (page 225)***27 total Lecture/Discussion hours and**27 total Lab hours -2 units***Modifications:****Change in title from Auto Wheel Alignment/Service Added Prerequisite: AUTO 134 and AUTO 135 or equivalent college course with "C" or better.****Revised Course Description:** This course includes instruction and laboratory tasks to allow students to become proficient in automotive brake and suspension system service. It is also preparation for the ASE under-car specialist certification test (X1). Prerequisite may be waived with equivalent skills and knowledge as determined by departmental assessment.AUTOMOTIVE TECHNOLOGY**AUTO 269****Brake/Headlamp Certification Preparation (page 225)***1 Lecture/discussion hours per week and**3 Lab hours per week-2 units***Modifications: Lecture and Lab hours changed from 2 Lecture hours per week and 1 lab hour per week (9 week course: 36 Lecture/Discussion per week and 18 Lab hours per week).**BIOLOGY**BIOL 031****Human Physiology (page 226)***3 Lecture/Discussion hours per week and**3 Lab hours per week-4 units***Modifications:****Addition of Distance Education Addendum for online and interactive TV (simulcast) instruction. Advisory on Recommended Preparation changed. Revised Course Description:** Students will study the function of the major organ systems of the human body. Emphasis is on maintenance of homeostasis, regulatory mechanisms, cellular function and integration among systems. Laboratory experiments and exercises are designed to reinforce theories and processes described in lecture and to introduce students to basic physiological scientific investigation. Advisory on Recommended Preparation: BIOL 030 and CHEM 020 or CHEM 030 or equivalent college course with a grade of "C" or better .**BIOL 180****Lab Techniques & Practices (page 226)***1 Lecture/Discussion hours per week and**3 Lab hours per week-4 units***Equivalent Course: CHEM 180****Modifications:****Advisory on Recommended Preparation changed. Revised Course Description:** This course introduces students to the techniques and practices used in laboratory settings. Topics will include lab safety, separation techniques, and measurements using a variety of instruments. Care and maintenance of instruments are also covered in the course. Advisory on Recommended Preparation: Completion of or co-enrollment in a transfer level chemistry course or equivalent college course with a grade of "C" or better.

Modified Courses

BUSINESS**BUS 082****Introduction to Business (page 227)***3 Lecture/Discussion hours per week-3 units***Modification: Addition of Distance Education Addendum for online instruction.****BUS 185****Ethics in Business and Industry (page 228)***3 Lecture/Discussion hours per week-3 units***Modifications:****Addition of Distance Education Addendum for online and correspondence instruction.****BUS 256****Medical Terminology (page 228)***3 Lecture/Discussion hours per week-3 units***Modifications:****Addition of Distance Education Addendum for online.****BUS 360AC****Elementary Keyboarding (page 229)***1 Lecture/discussion hours per week and 2 Lab per week for 9 weeks- 1 unit***Modification: Addition of Distance Education Addendum for online instruction.****Material Fee changed from \$10 to \$20.****Revised Course Description:** This course introduces students to the computer keyboard. Students will use the touch method to key letters, numbers, symbols, and the numeric keypad. This course may be repeated twice.**BUS 361AC****Elementary Keyboarding for ESL (page 229)***1 Lecture/discussion hours per week and 2 Lab per week for 9 weeks- 1 unit***Modification: Addition of Distance Education Addendum for online instruction.****Material Fee changed from \$10 to \$20.****Revised Course Description:** This course introduces the ESL student to the computer keyboard. Students will use the touch method to key letters, numbers, symbols, and the numeric keypad. This course may be repeated twice. Limitation on Enrollment: Limited to students enrolled in the ESL Program.CHEMISTRY**CHEM 180****Lab Techniques & Practices (page 230)***1 Lecture/Discussion hours per week and**3 Lab hours per week-4 units***Equivalent Course: CHEM 180****Modifications:****Advisory on Recommended Preparation changed.****Revised Course Description:** This course introduces students to the techniques and practices used in laboratory settings. Topics will include lab safety, separation techniques, and measurements using a variety of instruments. Care and maintenance of instruments are also covered in the course. Advisory on Recommended Preparation: Completion of or co-enrollment in a transfer level chemistry course or equivalent college course with a grade of "C" or better.CHILD DEVELOPMENT**CHLD 042****Child, Family and Society (page 231)***3 Lecture/discussion hours per week -3 units***Modification: Addition of Distance Education Addendum for online instruction.****Revised Course Description:** The study of the social development of young children with emphasis on the interactions among and between children, families, and community systems. This course is required for the Child Development Permit and core curriculum for employment in child care centers.

Modified Courses

CHILD DEVELOPMENT

CHLD 149

Creative Curriculum for Young Children DS3 (page 232)

2 Lecture/Discussion hours per week

3 Lab hours per week-3 units

Modifications:

Change in Lecture/Discussion hours from 2 Lecture/Discussion hours and 1 Lab hours per week. Units changed from 2 units.

Title changed from: Creative Activity for Children DS3

Repeatability removed.

Revised Course Description: This course presents an overview of knowledge and skills related to providing age-appropriate curriculum and environments for young children. It is designed to prepare child development students in the planning, development and implementation of a wide variety of preschool curriculum. Emphasis is on age and developmentally appropriate practices, theory and curriculum topics. Students will integrate cognitive theory into practicum in the areas of language and literacy, social/emotional learning, sensory learning, creative art, math and science.

CHLD 163AD

After School Programs (page 233)

4 Lecture/Discussion hours per week-4 units

Modifications:

Change in Lecture/Discussion hours from 3 Lecture/Discussion hours and 3 Lab hours per week.

Revised Course Description: The course is a study of literacy/numeracy curriculum in after-school enrichment programs, such as, the HEART program. It is designed to cover social, cognitive, and physical development of school-age children, curriculum development, enrichment activities and classroom management. This course is designed to be taught and offered only during the summer term. This course may be repeated three times.

COMMUNICATIONS

COMM 005

Argumentation and Debate (pages 234)

3 Lecture/Discussion hours per week-3 units

Modification: Addition of Distance Education addendum for online instruction.

COUNSELING

COUN 100

Equivalent Course: HDEV 100

Career Planning (pages 242)

3 Lecture/Discussion hours per week-3 units

Modification: Addition of Distance Education addendum for online instruction.

COUN 120AB

Student Success (pages 242)

2 Lecture/Discussion hours per week-2 units

Modification: Addition of Distance Education addendum for online instruction.

DAIRY SCIENCE

DSCI 101

Introduction to Dairy Science (pages 243)

3 Lecture/Discussion hours per week and

1 Lab hour per week-3 units

Modifications:

Title change from: Elements of Dairying

Revised Course Description:

This course will include a survey of the dairy industry and supply and use of milk. I will cover general information on the economics of dairying; trends, dairy animal selection, culling, fitting, showing, and judging; pedigree evaluation; basic dairy feeds; fundamentals of bovine reproduction; basic dairy management skills; and opportunities in the dairy industry.

DSCI 200

Applied Dairy Mechanics (pages 244)

2 Lecture/Discussion hours per week and

2 Lab hour per week-2 units

Modifications:

Title change from: Applied Mechanics in Dairy Science

Revised Course Description:

This course focuses on construction, repair and maintenance of dairy equipment and facilities. Content includes basic welding and repair of commonly found equipment and fences on dairies, and maintenance and service of equipment such as feed wagons, skip loaders, tractors and trailers.

Modified Courses

DRAMA

DRAM 040AD

Musical Theatre (page 247)

3 Lecture/Discussion hours per week and 1 Lab per week-3 units

Modifications:

Repeatability change to "AD" from "AB."

Five year update.

EDUCATION

EDUC 050

Introduction to Teaching (page 249)

2 Lecture/Discussion hours per week and 3 Lab hours per week-3 units

Modifications:

Course number changed from EDUC 150 to EDUC 050 to comply with COS Course Numbering System indicating UC transfer.

Revised Course Description: Exploration of teaching as a career. Students are introduced to the teaching profession in American schools. A minimum of forty-five hours of on-site school visitation required. Approved for distance education format. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with a "C" or better, or eligibility for ENGL 001 determined by COS placement procedures.

ENGLISH

ENGL 018

African American Literature (page 252)

3 Lecture/Discussion hours per week-3 units

Modifications:

Title changed from Black American Literature
Added distance education addendum for online instruction.

Revised Course Description: ENGL 018 is a study of African American literature including novels, short stories, poetry and plays, from the Colonial period to the present. This course is approved for distance education format. Prerequisite: ENGL 001 or equivalent college course with "C" or better.

ENGLISH

ENGL 251

Introduction to Academic Reading & Writing

(page 253)

4 Lecture/Discussion hours per week-4 units

Modifications:

Title changed from Introduction to Academic Writing.

Change in Lecture/Discussion hours from 3 Lecture/Discussion hours per week.

Change in units from 3.

Revised Course Description: This course emphasizes analytical reading and writing as processes that result in compositions appropriate for entry into transfer level academic study. Advisory on Recommended Preparation: ENGL 360 or equivalent college course with a grade of "C" or better or eligibility for ENGL 251 as determined by COS placement procedures.

ENVIRONMENTAL CONTROL TECHNOLOGY

ECT 260

Basic Refrigeration (page 257)

1.5 Lecture/Discussion hours per week and 1.5 Lab per week-2 units

Modification: Changed hours per week from:
2 Lecture/Discussion per week

1 Lab per week

ECT 262

Heating Systems & Controls (page 257)

1.5 Lecture/Discussion hours per week and 1.5 Lab per week-2 units

Modifications:

Changed hours per week from:
2 Lecture/Discussion per week

1 Lab per week

Revised Course description:

ECT 262 is an advanced course offered in residential and light-commercial heating that covers theory, design, controls, and operation of modern day space heating systems. The students will study the practical wiring of circuits, and the diagnosing of problems found in both residential and light-commercial applications. This course provides essential knowledge for a student seeking further advancement in their career.

Modified Courses

FIRE TECHNOLOGY

FIRE 275**Fire Command 1C (page 262)***36 total Lecture hours and**4 total Lab hours-2 units***Modifications:****Changed hours per week from:****30 total Lecture/Discussion hours and****10 total Lab hours.**

GEOGRAPHY

GEOG 001**Physical Geography (page 263)***3 Lecture/Discussion hours per week-3 units***Modifications:****Added distance education addendum for online instruction.****Change in Advisory on Recommended Preparation.**

Revised Course Description: An investigation of weather, climate, landforms, and maps. An emphasis is placed on using the methodologies of scientific inquiry to explain the distribution of physical phenomena on the surface of the earth and on examining the relationship between man and the natural environment. This course is approved for distance education format. Advisory on Recommended Preparation: MATH 200, MATH 205 or equivalent college course with "C" or better, or eligibility for MATH 230 determined by COS Placement Procedures; and ENGL 251 or equivalent college course with a "C" or better, or eligibility for ENGL 001 determined by COS Placement Procedures. CAN GEOG 2.

GEOLOGY

GEOG 251**Geology of the Mojave Desert (page 264)***SHORT TERM CLASS**.8 Lecture/Discussion hours per week**.55 Lab hours per week**.05 Activity hours per week - 1 unit***Modifications:****Changed hours per week from:****6 Lecture/Discussion (total)****18 Lab (total)****6 Activity (total)****Dropped Prerequisite and added Advisory on Recommended Preparation.****Revised Course description:**

This field trip course introduces the geology of the Mojave Desert. Major themes include tectonics and structure, mineral resources and mining, and energy resources. Some geologic features will be discussed en route, while extended stops, that include some hiking, allow closer examination of phenomena such as faults, volcanoes, mines, and solar power plants. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better or eligibility for ENGL 1 as determined by COS Placement Procedures.

HEALTH AND WELLNESS

HW 001**Personal & Community Health (page 265)***3 Lecture/Discussion hours per week-3 units***Modification: Distance Education Addendum added-online.**

HISTORY

HIST 017**People of the US to 1865 (page 266)***3 Lecture/Discussion hours per week-3 units***Modification: Distance Education Addendum added for online and interactive TV instruction.**

Modified Courses

HISTORY

HIST 018
People of the US after 1865 (page 266)
3 Lecture/Discussion hours per week-3 units
Modification: Distance Education Addendum added for online and interactive TV instruction.

HDEV 100
Career Planning (page 267)
3 Lecture/Discussion hours per week-3 units
Equivalent Course: COUN100
Modification: Addition of Distance Education addendum for online instruction.

HUMAN DEVELOPMENT

HDEV 120AB
Equivalent Course: COUN 120AB
Student Success (pages 267)
2 Lecture/Discussion hours per week-2 units
Modification: Addition of Distance Education Addendum for online instruction.

HUMAN SERVICES

HSRV 120
Introduction to Social Welfare (page 267)
3 Lecture/Discussion hours per week-3 units
Modification: Addition of Distance Education addendum for online instruction.

HSRV 122
Introduction to Human Services (pages 268)
3 Lecture/Discussion hours per week-3 units
Modification: Addition of Distance Education Addendum for online instruction.

INDUSTRY AND TECHNOLOGY

ITEC 100
Industrial Maintenance, Option A (page 268)
10 Lecture/Discussion hours per week and 15 Lab hours per week-15 units
Modification:
Five year review.
Title changed from: Industrial Maintenance Technician, Option A
Units changed from 13.
Hours changed from 8 hours of Lecture per week and 17 lab hours per week.

INDUSTRY AND TECHNOLOGY

ITEC 101
Industrial Maintenance, Option A (page 268)
10 Lecture/Discussion hours per week and 15 Lab hours per week-15 units
Modifications:
Five year review.
Title changed from: Industrial Maintenance Technician, Option A
Units changed from 13.
Hours changed from 8 hours of Lecture per week and 17 lab hours per week.
TOP Code changed from 934.20

ITEC 105AD
Industrial Maintenance (page 268)
3 Lecture/Discussion hours per week and 3 Lab hours per week-4 units
Modifications:
Five year review.
Title changed from: Industrial Maintenance Technician, Option B
Revised Course Description:
 This employment-oriented class will provide the students with knowledge and skills in the areas of basic electricity, industrial electrical controls, programmable logic controllers, instrumentation, pneumatics and hydraulics, machine tool operation, refrigeration principles, and welding practices. ITEC 105AD requires four semesters of course work and work experience to complete the certification requirement.

Modified Courses

MATHEMATICS**MATH 010****Structures and Concepts 1 (page 275)***4 Lecture/Discussion hours per week-4 units***Modifications:****Five year review.****Prerequisite changed to: MATH 230 or equivalent college course with "C" or better.****Revised Course Description:**

This is a four-unit course covering critical thinking, sets and functions, numeration and computation, number theory, rational numbers, and real numbers. The emphasis of this course is in mathematical foundations of arithmetic relevant to future elementary school teachers. This course is intended for liberal studies students, though it can be used to meet general education requirements. Supplemental learning assistance is available for students to strengthen skills and to reinforce student mastery of concepts. Students enrolled in MATH 010 may access the supplemental learning assistance by enrolling in MATH 400, an open entry/open exit non-credit course. CAN MATH 4

MATH 011**Structures and Concepts 2 (page 275)***4 Lecture/Discussion hours per week-4 units***Modifications:****Five year review.****Revised Course Description:**

This course continues topics from MATH 10 and includes statistics, probability, geometry, measurement, transformations, congruence, and coordinate geometry. The emphasis of this course is in mathematical topics relevant to future elementary school teachers. This course is intended for liberal studies students, though it can be used to meet general education requirements. Supplemental learning assistance is available for students to strengthen skills and to reinforce student mastery of concepts. Students enrolled in MATH 011 may access the supplemental learning assistance by enrolling in MATH 400, an open entry/open exit non-credit course.

MATHEMATICS**MATH 070****Pre-Calculus (page 275)***5 Lecture/Discussion hours per week-5 units***Modifications:****Five year review.****Revised Course Description:**

This course proceeds at an intense pace. Topics include: functions and graphs, applications of functions, exponential and logarithmic functions, trigonometric functions and analytic trigonometry, right triangle trigonometry, analytic geometry, and roots of polynomial equations. This course is intended for students planning to take calculus. Supplemental learning assistance is available for students to strengthen skills and to reinforce student mastery of concepts. Students enrolled in MATH 070 may access the supplemental learning assistance

MATH 077**Calculus 3 (page 276)***3 Lecture/Discussion hours per week-3 units***Modification:****Five year review.****MATH 081****Differential Equations (page 276)***5 Lecture/Discussion hours per week-5 units***Modifications:****Five year review.****Advisory on Recommended Preparation added.****Revised Course Description:**

An introduction of solving ordinary and partial differential equations including matrix solutions of linear systems, Laplace transforms, series solutions, separation of variables in partial differential equations, boundary value problems, and Fourier series. Supplemental learning assistance is available for students to strengthen skills and to reinforce student mastery of concepts. Students enrolled in MATH 081 may access the supplemental learning assistance by enrolling in MATH 400, an open entry/open exit non-credit course.

Advisory on Recommended Preparation: MATH 080 or equivalent college course with "C" or better.

Modified Courses

MATHEMATICS**MATH 154****Trigonometry (page 276)**

4 Lecture/Discussion hours per week-4 units

Modifications:

Units changed from 5.

Lecture hours per week changed from 5 lecture hours per week.

Added Distance Education Addendum for online and correspondence instruction.

Revised Course Description:

An intensive one-semester course in the elements of trigonometry including: trigonometric functions, solving triangles for unknown parts, proving and applying identities, graphing, solving trigonometric equations, expressing and using complex numbers in trigonometric form. Students enrolled in MATH 154 may access the supplemental learning assistance by enrolling in MATH 400, an open entry/open exit non-credit course. Supplemental learning assistance is available for students to strengthen skills and to reinforce student mastery of concepts. Students enrolled in MATH 081 may access the supplemental learning assistance by enrolling in MATH 400, an open entry/open exit non-credit course.

MATH 200**Elementary Algebra (page 276)**

4 Lecture/Discussion hours per week-4 units

Modifications:

Added Distance Education Addendum for online and correspondence instruction.

Revised Course Description:

This is a four-hour-a-week intensive one-semester course in elementary algebra covering: operations with real numbers, linear equations and inequalities, graphing, systems of equations, word problems, exponents, factoring, and rational expressions. Supplemental learning assistance is available for students to strengthen skills and to reinforce student mastery of concepts. Students enrolled in MATH 200 may access the supplemental learning assistance by enrolling in MATH 400, an open entry/open exit non-credit course. Approved for Distance Learning format.

Advisory on Recommended Preparation: MATH 360 or MATH 365 or equivalent college course with "C" or better; or eligibility for MATH 200 or 205 as determined by COS placement procedures. credit course. Approved for Distance Learning

MATHEMATICS**MATH 205****Beginning Algebra (page 277)**

3.5 Lecture/Discussion hours per week and 1.5 Activity per week-4 units

Modifications:

Hours per week changed from 5 Lecture/Discussion hours per week.

Advisory on Recommended Preparation changed.

Revised Course Description:

This is a five-hour-a-week, one-semester course in beginning algebra covering: operations with real numbers, linear equations and inequalities, word problems, factoring, rational expressions, graphing and exponents. This course will benefit students who need more time on task and a slower paced environment. Supplemental learning assistance is available for students to strengthen skills and to reinforce student mastery of concepts. Students enrolled in MATH 205 may access the supplemental learning assistance by enrolling in MATH 400, an open entry/open exit non-credit course.

Advisory on Recommended Preparation: MATH 360 or 365 or equivalent college course with a grade of "C" or better or eligibility for MATH 200 or 205 as determined by COS Placement Procedures.

MATH 360**Pre-Algebra (page 277)**

4 Lecture/Discussion hours per week -4 units

Modifications:

Added Distance Education Addendum for correspondence and online/hybrid instruction.

Revised Course Description:

This four-hour-a-week course focuses on the fundamental operations of whole and signed numbers, fractions, mixed numbers, decimals, and their use in applied problems. Other topics include factors and multiples, ratios, proportions, introductory algebra, percents, unit conversions, and geometric measurements. All topics are taught with a pre-algebra perspective. Supplemental learning assistance is available for students to strengthen skills and to reinforce student mastery of concepts. Students enrolled in MATH 360 may access the supplemental learning assistance by enrolling in MATH 400, an open entry/open exit non-credit course.

Modified Courses

MATHEMATICS**MATH 365****Arithmetic & Pre-Algebra (page 277)**

3.5 Lecture/Discussion hours per week and 1.5 Activity per week-4 units

Modifications:

Hours per week changed from 5 Lecture/Discussion hours per week.

Revised Course Description:

This course focuses on the fundamental operations of whole and signed numbers, fractions, mixed numbers, decimals, and their use in applied problems. Other topics include factors and multiples, ratios, proportions, introductory algebra, percents, unit conversions, and geometric measurements. This course will benefit students who need more time on task and a slower paced environment. Supplemental learning assistance is available for students to strengthen skills and to reinforce student mastery of concepts. Students enrolled in MATH 365 may access the supplemental learning assistance by enrolling in MATH 400, an open entry/open exit non-credit course.

METEOROLOGY**MET 001 365****Elementary Meteorology (page 278)**

3 Lecture/Discussion hours per week -3 units

Modification: Five year review.

MUSIC**MUS 014****History of Rock and Roll (page 281)**

3 Lecture/discussion hours per week-3 units

Modification: Course number changed from MUS 114 to MUS 014 to comply with the COS Numbering System indicating UC transfer.

MUS 015**History of American Folk Music (page 282)**

3 Lecture/discussion hours per week-3 units

Modification: Course number changed from MUS 115 to MUS 015 to comply with the COS Numbering System indicating UC transfer.

MUS 024AD**Keyboard Accompaniment (page 282)**

2 Lecture/discussion hours and

1 Lab hour per week-2units

Modification: Course number changed from MUS 124AD to MUS 024AD to comply with the COS Numbering System indicating UC transfer.

MUSIC**MUS 033AD****Men's Chorus (page 282)**

3 Lab hours per week-1 unit

Modification: Course update.

Course number changed from MUS 133AD to MUS 033AD to comply with the COS Numbering System indicating UC transfer.

MUS 034AD**Concert Choir (page 279)**

6 Lab hours per week-2 units

Modifications: Changed hours per week from:

2 Lecture/Discussion per week

3 Lab per week

Revised Course Description:

MUS 034AD offers a study and the performance of choral literature from the Renaissance to Contemporary with emphasis on vocal production and tone quality, balance and blend, and musical precision and accuracy. Participation in public performance is required. This course can be repeated three times.

MUS 035AD**Concert Choir 2 (page 279)**

6 Lab hours per week-2 units

Modifications: Changed hours per week from:

2 Lecture/Discussion per week

3 Lab per week

Revised Course Description:

Study and performance of advanced choral literature from the Renaissance to Contemporary with emphasis on proper performance practices, musical precision and accuracy. Participation in public performance is required. This course is designed to give the advanced choral musician a working relationship with the musical demands of performing symphonic and advanced a Capella choral works. This class may be repeated three times. Advisory on Recommended Preparation: MUS 34AD or equivalent college course with a "C" or better. Limitation on Enrollment: Audition by department.

Modified Courses

MUSIC

MUS 036AD

Chamber Singers (page 279)

6 Lab hours per week-2 units

Modifications: Changed hours per week from:

2 Lecture/Discussion per week

3 Lab per week

Revised Course Description:

MUS 036AD is designed to provide an environment for study of choral literature, techniques and performance with experienced vocal students. This course focuses on works written for Chamber ensembles. This course can be repeated three times. Limitation on Enrollment: Audition by Department.

MUS 047AD

H.S. Honor Choir Workshop (page 282)

1.5 Lab hours per week- .5 unit

Modifications:

Change in units from 1 unit.

Change in total class hours from 8 Lecture/Discussion and 19 Lab hours.

Course number changed from MUS 147AD to MUS 047AD to comply with the COS Numbering System indicating UC transfer.

Revised Course Description:

A study and performance of standard a cappella choir repertory targeted toward high school students interested in improving their musicianship. One outside or public performance is required. This course may be repeated three times. Limitation on Enrollment: Audition by Department.

NURSING

NURS 106

Cultural Diversity in Healthcare (page 284)

3 Lecture/Discussion hours per week-3 units

Modification: Five year update.

NURS 152

Promoting Perinatal Wellness (page 284)

2 Lecture/Discussion hours per week and

6 Lab hours per week-4 units

Modifications: Lab hours changed from 12 Lab hours per week.

Prerequisite changed to: NURS 161 or equivalent college course with a grade of "C" or better from NURS 150 or NURS 161 or equivalent course with "C" or better.

NURSING

NURS 153

Promoting Pediatric Wellness (page 284)

2 Lecture/Discussion hours per week and

6 Lab hours per week-4 units

Modifications:

Lab hours changed from 12 Lab hours per week.

Prerequisite changed to: NURS 161 or equivalent college course with a grade of "C" or better from NURS 150 or NURS 161 or equivalent course with "C" or better.

NURS 154

Promoting Mental Wellness (page 284)

2 Lecture/Discussion hours per week and

6 Lab hours per week-4 units

Modification:

Lab hours changed from 12 Lab hours per week.

NUTRITION

NUTR 114

Cooking for a Healthy Life (page 287)

2 Lecture/Discussion hours per week and

3 Lab hours per week-4 units

Modifications: Lab hours changed from 2 Lecture/Discussion hours per week and 2 Lab hours per week.

PHILOSOPHY

PHIL 001

Introductory Philosophy (page 292)

3 Lecture/Discussion hours per week-3 units

Modifications:

Added Distance Education Addendum for online instruction.

Five year update.

Change in TOP code to 1509.00

PHIL 006

Introductory Philosophy (page 292)

3 Lecture/Discussion hours per week-3 units

Modifications:

Course number changed from PHIL 106 to PHIL 006 to comply with the COS Numbering System indicating UC transfer.

Modified Courses

PHILOSOPHY**PHIL 013****Introduction to the Old****Testament (page 292)***3 Lecture/Discussion hours per week-3 units***Modifications:****Added Distance Education Addendum for online instruction.****Revised Course Description:**

A survey of the religion of the Hebrews with particular emphasis on the thought, theology and writings of the Old Testament. Myth, themes and language of religion will be examined according to the historical time period. Approved for distance education format. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better, or eligibility for ENGL 1 determined by COS Placement Procedures.

PHIL 014**Introduction to the Old****Testament (page 292)***3 Lecture/Discussion hours per week-3 units***Modifications:****Added Distance Education Addendum for online instruction.****Revised Course Description:**

An introduction to the early Christian community in the period following the death of Christ. New Testament writing is traced through the thought and theology of the historical time period. Advisory on Recommended Preparation: ENGL 251 or equivalent college course with "C" or better, or eligibility for ENGL 1 determined by COS Placement Procedures.

PHILOSOPHY**PHIL 020****Introductory Logic (page 292)***3 Lecture/Discussion hours per week-3 units***Modifications:****Added Distance Education Addendum for online instruction.****Five year update.****Advisory on Recommendation changed.****Revised Course Description:**

Student will determine the truth of arguments based on logical structure. For ease of proof, ordinary language will be translated into symbols. This course has philosophical implications for areas of study such as mathematics, computer sciences, law, philosophy and electronics. This course is approved for distance education format. Advisory on Recommended Preparation: ENGL 001 or equivalent college course with "C" or better or MATH 230 or equivalent college course with "C" or better.

Change in TOP code to 1509.00**PHIL 025****Critical Thinking (page 292)***3 Lecture/Discussion hours per week-3 units***Modifications:****Added Distance Education Addendum for online instruction.****Revised Course Description:**

Principles and methods of reasoning including identification of arguments, use of language, common errors, and development of strong deductive and inductive arguments. Students are required to write 6,000 to 8,000 words in several essays to demonstrate critical thinking.

PHYSICAL EDUCATION**PE 001AD****Aerobic Conditioning (page 293)***.5 Lecture/Discussion per week and**1.5 Activity hours per week-1 unit***Modifications:****Course update and new course outline format.**

PHYSICAL EDUCATION**PE 002AD****Non-Impact Aerobics (page 293)**

*.5 Lecture/Discussion per week and
1.5 Activity hours per week-1 unit*

Modifications:

Course update and new course outline format.

PE 003AD**Walking/Jogging for Aerobic
Fitness (page 293)**

*.5 Lecture/Discussion per week and
1.5 Activity hours per week-1 unit*

Modifications:

Course update and new course outline format.

PE 004AD**Weight Training (page 293)**

*.5 Lecture/Discussion per week and
1.5 Activity hours per week-1 unit*

Modifications:

Course update and new course outline format.

PE 015AD**Fundamentals of Football (page 294)**

*.5 Lecture/Discussion per week and
1.5 Activity hours per week-1 unit*

Modifications:

Course update and new course outline format.

PLANT SCIENCE**PLSI 113****Grape and Vine Production (page 299)**

*3Lecture/Discussion per week and
1 Lab hour per week-3units*

Modifications:

Advisory on Recommended Preparation deleted.

Revised Course Description:

Course provides students with a basic understanding of grape and vine production in the San Joaquin Valley. Content will include cultural practices in wine, table and raisin production pruning and trellising, disease and pest control, and marketing strategies.

SOCIAL SCIENCE**SOCS 036****Introduction to Aging (page 300)**

3 Lecture/discussion hours per week-3 units

Modification: Course number changed from SOCS 136 to SOC 036 to comply with the COS Numbering System indicating UC transfer.