

# Fresno City College

## 2008-2010

# Catalog Addendum

## July 2009

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# CALENDAR

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*Change to Pages 10-11*

**Correction:**

**Fall Semester 2009**

September 7.....Labor Day Holiday

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# GRADUATION REQUIREMENTS

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*Changes to Pages 33-37*

## Associate in Arts Degree

**Change:** *revise*

6, Speech 1, 2, 4, 8, 12, 25 to Communication 1, 2, 4, 8, 12, 25

*effective Fall 2010*

**C, Humanities**

Photography 10 to Photography 17

Photography 20 to Photography 18

Speech 12 to Communication 12

*effective Fall 2010*

*effective Fall 2010*

*effective Fall 2010*

**D, Language and Rationality**

Speech 25 to Communication 25

*effective Fall 2010*

**Change:** *new*

**A, Natural Sciences**

Biology 11A, 11AH, 11B

*effective Fall 2010*

**B, Social and Behavioral Sciences**

Sociology 1AH

*effective Fall 2009*

**C, Humanities**

Latin American Studies 10

Photography 6, 7

Portuguese 1, 2, 3, 4

*effective Fall 2009*

*effective Fall 2010*

*effective Fall 2009*

**Change:** *delete*

**A, Natural Sciences**

Biology 9

*effective Spring 2010*

**C, Humanities**

Dance 23

*effective Spring 2009*

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# TRANSFER REQUIREMENTS

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## Changes to Pages 38-53

### Fresno City College CSU General Education – Breadth

**Change: revise**

**Area A1, Oral Communication**

Speech 1, 2, 4, 8 to Communication 1, 2, 4, 8

**effective Fall 2010**

**Area A3, Critical Thinking**

Speech 25 to Communication 25

**effective Fall 2010**

**Area C1, Arts**

Photography 10 to 12

**effective Fall 2010**

Photography 20 to 18

**effective Fall 2010**

Speech 12 to Communication 12

**effective Fall 2010**

**Change: new**

**Area B1, Physical Science**

Physical Science 7

**effective Spring 2009**

**Area C1, Arts**

Music 17

**effective Fall 2008**

**Area C2, Humanities**

Latin American Studies 10

**effective Fall 2009**

Portuguese 1, 2, 3, 4

**effective Fall 2009**

**Area D2, Economics**

Economics 25

**effective Fall 2008**

**Area D3, Ethnic Studies**

Journalism 16

**effective Fall 2008**

**Area D4, Gender Studies**

Journalism 16

**effective Fall 2008**

### California State University Transfer Course List (CSU)

**Change: revised**

Anthropology 7 to Interdisciplinary Studies 1

**effective Fall 2009**

Photography 10 to 17

**effective Fall 2010**

Photography 20 to 18

**effective Fall 2010**

Photography 25 to 32

**effective Fall 2010**

Photography 33 to 27

**effective Fall 2010**

Photography 35 to 26

**effective Fall 2010**

Speech 1, 2, 4, 8, 12, 20, 25, 26 to Communication 1, 2, 4, 8, 20, 25, 26

**effective Fall 2010**

**Change: new**

American Sign Language 20, 21, 22

**effective Fall 2009**

Biology 11A, 11AH, 11B

**effective Fall 2010**

Computer Aided Drafting and Design 28, 36A

**effective Fall 2009**

Computer Aided Manufacturing 1A, 1B

**effective Fall 2009**

Computer Information Technology 28, 46, 48, 49, 57, 58A, 58B, 58C, 58D, 58E, 58F, 82, 94

**effective Fall 2009**

Dance 28

**effective Spring 2009**

Electrical Systems Technology 80	<i>effective Spring 2010</i>
Geology 3	<i>effective Fall 2009</i>
Graphic Communications 28, 31, 32, 33, 34	<i>effective Spring 2009</i>
Journalism 19	<i>effective Spring 2010</i>
Latin American Studies 10	<i>effective Fall 2009</i>
Nursing 31, 32, 32A, 33	<i>effective Spring 2009</i>
Nursing 35B, 41, 42, 42A, 45, 46	<i>effective Fall 2009</i>
Nursing 51, 52, 52A, 53, 55, 56	<i>effective Spring 2010</i>
Paralegal 18, 19, 20	<i>effective Spring 2009</i>
Photography 6, 7, 37, 47	<i>effective Fall 2010</i>
Portuguese 1, 2, 3, 4	<i>effective Fall 2009</i>
Spanish 13	<i>effective Summer 2009</i>
Theatre Arts 48	<i>effective Spring 2009</i>
Wind Turbine Technology 1, 2, 3	<i>effective Spring 2010</i>

**Change: remove**

Counseling 41, 47A, 47B, 49 renumber to 141, 147A, 147B, 149	<i>effective Spring 2010</i>
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**Change: delete**

Biology 8A, 8B, 8C, 9	<i>effective Spring 2010</i>
Computer Aided Manufacturing 30, 40, 50	<i>effective Fall 2009</i>
Computer Information Technology 86, 87	<i>effective Fall 2009</i>
Counseling 11, 38	<i>effective Spring 2010</i>
Dance 23, 24	<i>effective Spring 2009</i>
Health Information Technology 19	<i>effective Fall 2009</i>
Library Skills 19	<i>effective Fall 2009</i>
Library Technology 19, 60	<i>effective Fall 2009</i>
Nursing 1, 2, 21, 50	<i>effective Spring 2009</i>
Nursing 5, 6	<i>effective Fall 2009</i>
Nursing 3, 4, 13, 14	<i>effective Spring 2010</i>

**University of California Transfer Course List (UC)****Change: revised**

Photography 10 to 17	<i>effective Fall 2010</i>
Speech 1, 4, 8, 12, 25 to Communication 1, 4, 8, 12, 25	<i>effective Fall 2010</i>

**Change: new**

Accounting 4AH, 4BH	<i>effective Fall 2008</i>
Chinese 3, 4, 5	<i>effective Fall 2008</i>
Dance 28	<i>effective Fall 2008</i>
Journalism 16	<i>effective Fall 2008</i>
Latin American Studies #11	<i>effective Fall 2008</i>
Music 17, 53, 90, 91, 92	<i>effective Fall 2008</i>
Physical Science 7	<i>effective Fall 2008</i>
Theatre Arts 27A, 27B, 46	<i>effective Fall 2008</i>

# Approved as variable topics; evaluation completed by individual campuses upon admission.

**Change: delete**

Biology 9	<i>effective Spring 2010</i>
Dance 23, 24	<i>effective Spring 2009</i>

**Intersegmental General Education Transfer Curriculum (IGETC) to CSU and UC****Change: revised****Area 1C, Oral Communication***effective Fall 2010*

Speech 1, 4, 8, 25 to Communication 1, 4, 8, 25

**Change:** *new*

<b>Area 3A, Arts</b>	<i>effective Fall 2008</i>
History 17, History of Rock .....	3
<b>Area 3B, Humanities</b>	<i>effective Fall 2008</i>
Chinese 3, 4, Intermediate Chinese.....	3
Chinese 5, Chinese Short Stories & Culture.....	3
<b>Area 4C, Ethnic Studies</b>	<i>effective Fall 2008</i>
Journalism 16, Race, Gender and the Media .....	3
<b>Area 4D, Gender Studies</b>	<i>effective Fall 2008</i>
Journalism 16, Race, Gender and the Media .....	3
<b>Area 5A, Physical Sciences</b>	<i>effective Spring 2009</i>
Physical Science 7, Environmental Science.....	3

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## FRESNO CITY COLLEGE MAJORS AND TRANSFER MAJORS WITH CODES

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*Changes to Page 87-88*

**Corrected Programs**

**AIR CONDITIONING**

8231 Industrial Refrigeration – CARO/EPA Section 608 Certification

**BUILDING SAFETY CODE AND ADMINISTRATION**

8220 Building Safety Code and Administration

**New programs/Options**

**COMPUTER INFORMATION TECHNOLOGY**

Information Security I (C)

Information Security II (C)

*effective Fall 2009*

*effective Fall 2009*

**ELECTRICAL SYSTEMS TECHNOLOGY**

+ Electrical/Utility Worker Option (CA)

*effective Spring 2009*

**FOREIGN LANGUAGES**

+ Sign Language Interpreting Preparation (CA)

*effective Fall 2009*

+ *Pending State Chancellor’s Office approval.*

**GRAPHIC COMMUNICATIONS**

Multimedia Option (C)

Film/Video Option (C)

*effective Spring 2009*

*effective Spring 2009*

+ **JOURNALISM (AA)**

*effective Fall 2009*

+ **PSYCHOLOGY (AS)**

*effective Fall 2009*

+ **WIND TURBINE TECHNOLOGY (CA)**

*effective Spring 2010*

+ *Pending State Chancellor’s Office approval.*

**Revised programs**

**1060 ADAPTED ORNAMENTAL HORTICULTURE (C)** *effective Fall 2009*

**ADMINISTRATION OF JUSTICE**

8920 Basic Police Academy *effective Spring 2010*

**BUSINESS & TECHNOLOGY**

2201 Business Office Assistant (CA) *effective Fall 2009*

2202 Computer Applications Software (C) *effective Fall 2009*

2102 Legal Office Professional (AS/CA/C) *effective Fall 2009*

2242 Medical Billing Assistant (CA) *effective Fall 2009*

2381 Medical Office Professional (AS/CA/C) *effective Fall 2009*

2061 Office Professional I (AS/CA/C) *effective Fall 2009*

2212 Office Professional II (AS/CA/C) *effective Fall 2009*

**CAREER & TECHNOLOGY CENTER**

807V Automotive Collision Repair (CC) *effective Fall 2009*

852V Industrial Training *effective Fall 2009*

**5430 COMMUNICATION** (*formerly Speech Communication*) *effective Fall 2010*

**3051 COMPUTER AIDED DRAFTING AND DESIGN (AS/CA)** *effective Fall 2009*

**8271 COMPUTER AIDED MANUFACTURING (AS/CA)** *effective Fall 2009*

**COMPUTER INFORMATION TECHNOLOGY**

2713 Data Entry Technician (CA) *effective Fall 2009*

2705 Microcomputer Software Specialist (AS/CA) *effective Fall 2009*

2720 Networking/Computer Technician (AS/CA) *effective Fall 2009*

2710 Preparation in Microsoft Office (C) *effective Fall 2009*

2723 System Support Specialist (C) *effective Fall 2009*

2740 Web Developer (AS/CA) *effective Fall 2009*

2741 Web Page Development (C) *effective Fall 2009*

**5390 DANCE (AA)** *effective Spring 2009*

**GRAPHIC COMMUNICATIONS**

8332 Graphic Communications (AS/CA) *effective Spring 2009*

8501 Graphic Design Option (AA/CA) *effective Spring 2009*

8502 Web Design Option (CA) *effective Spring 2009*

**4621 HEALTH INFORMATION TECHNOLOGY (AS)** *effective Fall 2009*

**HONORS (C)** *effective Fall 2009*

**LIBERAL ARTS, INTERDISCIPLINARY SCIENCE EMPHASIS** *effective Fall 2010*

**LIBERAL STUDIES (AA)** *effective Fall 2009*

**5171 LIBRARY TECHNOLOGY (AS/CA)** *effective Fall 2009*

**6080 LIFE SCIENCE** *effective Fall 2010*

**NURSING**

## 4520 Nursing/Registered (RN) (AS) *effective Spring 2009*

## *Pending Board of Registered Nursing approval.*

**2550 PARALEGAL (AS/CA)** *effective Spring 2009*

**PHOTOGRAPHY**

5222 Commercial Photography (CA) *effective Fall 2010*

5223 Digital Photography (CA)	<i>effective Fall 2010</i>
5224 Fine Art Photograph (CA)	<i>effective Fall 2010</i>
5225 Photojournalism (CA)	<i>effective Fall 2010</i>
5221 Professional (CA)	<i>effective Fall 2010</i>

**THEATRE ARTS**

5540 Theatre Arts	<i>effective Fall 2009</i>
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*Deleted programs*

**BUSINESS & TECHNOLOGY**

2421 Medical Billing Clerk Emphasis (AS/CA/C)	<i>effective Fall 2009</i>
2241 Medical Receptionist Emphasis (AS/CA/C)	<i>effective Fall 2009</i>
2371 Medical Transcription Emphasis (AS/CA/C)	<i>effective Fall 2009</i>
2213 Office Professional Emphasis (AS/CA/C)	<i>effective Fall 2009</i>
2322 Word Processor Emphasis (AS/CA/C)	<i>effective Fall 2009</i>

**CAREER & TECHNOLOGY CENTER**

804V Auto Mechanic, Engine Performance (CC)	<i>effective Fall 2009</i>
808V Auto Mechanic, Engine Repair (CC)	<i>effective Fall 2009</i>

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## DIVISIONS

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*Changes to Page 89-101*

### APPLIED TECHNOLOGY DIVISION

**CAREER & TECHNOLOGY CENTER**

*Certificates of Completion*

1. Automotive Collision Repair (Major #807V)	<i>program revised, Fall 2009</i>
	Hours
Auto Collision Repair 371, Fund of Welding Tech & Working Sheet Metal	300
Auto Collision Repair 372, Body Work Technology	300
Auto Collision Repair 373, Automotive Refinishing Technology	300
	Program Total 900
2. Industrial Training	<i>program revised, Fall 2009</i>
	Hours
Industrial Training 371, Warehouse and Distribution Careers	108
Industrial Training 372, Warehouse and Distribution Careers	108
	Program Total 216



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# ASSOCIATE DEGREE AND CERTIFICATE PROGRAMS

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*Changes to Pages 104-169*

## ADAPTIVE ORNAMENTAL HORTICULTURE SKILLS

### ADAPTIVE ORNAMENTAL HORTICULTURE SKILLS – Major #1060

*revised program, Fall 2009*

The adaptive ornamental horticulture skills program is designed to provide students with disabilities both educational and vocational opportunities. A certificate will not only validate participation in the program, but it will also enhance the opportunities to secure gainful employment.

#### CERTIFICATE

##### *First Year*

First Semester	Units
DEVSER 262 Group Interaction for Students with Disabilities .....	2
DEVSER 275 Horticulture Skills I.....	2
	Total 4

Second Semester	Units
DEVSER 262 Group Interaction for Students with Disabilities .....	2
DEVSER 276 Horticulture Skills II.....	2
	Total 4

##### *Second Year*

First Semester	Units
DEVSER 282 Greenhouse Workforce Prep .....	3
	Total 3

Second Semester	Units
DEVSER 282 Greenhouse Workforce Prep .....	3
	Total 3

## ADMINISTRATION OF JUSTICE

### +BASIC POLICE ACADEMY – Major #

*revised program, Spring 2010*

The Basic Police Academy Certificate of Achievement program offers curriculum to prepare students with the knowledge and skills necessary to complete a law enforcement field training program certified by the California Commission on Peace Officer Standards and Training (POST). Employment opportunities are found in both government and private enterprise where law enforcement principles are applied.

The basic academy is offered in three different formats; the intensive 40 hour per week format, the 24 hour per week night academy extended format, and the basic reserve officer modular format. Hours per week may vary slightly according to schedule.

#### **Program Requirements**

To qualify for the program, applicants must:

1. Be 18 years of age and have a high school diploma or G.E.D.
2. Complete and submit the Fresno City College and Police Academy applications.
3. Pass the POST written examination and physical agility test.

Applicants must attend an interview and orientation, and will be notified regarding their acceptance.

Accepted applicants must:

1. Possess a valid California Drivers License and provide a DMV printout of their driving record.
2. Provide a Department of Justice clearance for firearms possession.
3. Provide proof of a physical examination including an Electrocardiogram with a physician's approval for applicant to participate in all aspects of academy training.

**CERTIFICATE OF ACHIEVEMENT**

Required Courses

<b>Course</b>	<b>Units</b>
AJ 270A      Basic Police Academy Part 1 .....	10
AJ 270B      Basic Police Academy – Part 2 .....	13
	Total 23

**+BASIC RESERVE ACADEMY – Major #**

*revised program, Fall 2009*

It should be noted that although the Reserve Model 3, 2 and 1 courses are standardized curricula established by POST that different community colleges may ascribe differing units to the courses. For instance, Merced College and West Hills College present the Reserve Module 3 and 2 courses but are not certified by POST to present the Reserve Module 1 course. Graduates from those colleges often attend the Reserve Module 1 course at FCC because they meet the prerequisites and their total units for the three Reserve levels may not equal 20.5 units, however successful completion of the Basic Reserve Academy Module 1 at FCC will satisfy the requirements to receive a Certificate of Achievement.

**CERTIFICATE OF ACHIEVEMENT**

Required Courses

<b>Course</b>	<b>Units</b>
AJ 272      Regular Basic Course – Mod Format – Module III .....	4
AJ 273      Regular Basic Course – Mod Format – Module II .....	5.5
AJ 274      Regular Basic Course – Mod Format – Module I .....	11
	Total 20.5

+Pending State Chancellor's Office approval.

**AIR CONDITIONING**

**INDUSTRIAL REFRIGERATION – CARO/EPA-SECTION 608 CERTIFICATION – MAJOR #8231**

*correct program*

This program is intended for the entry-level operator with little or no experience in industrial refrigeration. The curriculum provides instruction in the principles of mechanical refrigeration in an industrial setting and related safety issues. The coursework is intended to help the student prepare for the Refrigerating Engineers & Technicians Association's (RETA) Certified Assistant Refrigeration Operators (CARO) examination. Students will also receive instruction to prepare them for the EPA-section 608 certification exam.

**CERTIFICATE**

	Units
AC 55      Technician Testing and Certification .....	1
AC 353      Principles of Industrial Refrigeration .....	0
	Total 1

**BUILDING SAFETY AND CODE ADMINISTRATION**

**BUILDING SAFETY AND CODE ADMINISTRATION – Major #8220**

*correct program*

This curriculum is designed to prepare students for employment with building departments, other governmental agencies, and private inspection companies.

**ASSOCIATE IN SCIENCE DEGREE  
AND CERTIFICATE**

*First Year*

First Semester Units

+BSCA 10      Building Codes .....	3
+BSCA 12      Plans Examining .....	3
+BSCA 14      Building Inspection .....	3

ARCH 12	Arch Practice .....	3
DRAFT 160	Math of Drafting.....	3
	Total	15

Second Semester Units

+BSCA 20	Advanced Building Codes .....	3
ARCH 21	Materials of Construction .....	3
+#Electives	(Certificate of Achievement only) .....	6
	Total	12

Second Year

First Semester Units

ARCH 32	Strength of Materials .....	3
AT 10	Technical Computer Applications.....	2
AT 40	Preparing for Employment Opportunities.....	3
	Total	8

+ Required courses for certificate

# Electives for certificate may be selected from the following:

Units

BSCA 15	Plumbing Code & Inspection.....	3
BSCA 16	Mechanical Code & Inspection.....	3
BSCA 17	National Electrical Code Part I .....	3
BSCA 18	California Disabled Access Regulations .....	3
BSCA 22	Advanced Plans Examining .....	3
BSCA 24	Advanced Building Inspection .....	3

Note: Students qualify for the certificate of achievement upon completion of the major requirements listed above. In addition, those completing the associate degree requirements on page 35 of the catalog, upon application, will be awarded the associate in science degree.

**BUSINESS & TECHNOLOGY**

**BUSINESS OFFICE ASSISTANT – #2201**

*revised program, Fall 2009*

CERTIFICATE OF ACHIEVEMENT

Course		Units
BT 1	Typing/Document Processing I .....	4
BT 2	Typing/Document Processing II .....	4
BT 9	Computer Applications I .....	4
BT 19	Work Experience (Coop), Occup .....	3
BT 23	Job Search and Workplace Skills.....	3
BT 29	Microsoft Word II .....	2
BT 116	Spelling & Vocabulary Building .....	2
*BT 250	Office Skills Lab.....	2
BT 270	Business Math & 10 Key .....	2
BT 271	Business Grammar Fundamentals.....	2
BT 280	Basic Office Procedures.....	2
	Total	30

\*Course is taken twice; each course section is one unit.

Note: Students must demonstrate the ability to type 40 words per minute with 97% accuracy on three 5-minute timed writings and key 110 correct strokes per minute on the ten-key calculator.

**COMPUTER APPLICATIONS SOFTWARE – Major #2202**

*revised program, Fall 2009*

CERTIFICATE

<b>Course</b>	<b>Units</b>
BT 9 Computer Applications I .....	4
BT 10 Computer Applications II .....	4
BT 14 Windows .....	2
BT 106 Computer Keyboarding .....	1.5
	Total 11.5

**LEGAL OFFICE PROFESSIONAL – Major #2102**

*revised program, Spring 2009*

*Formerly Legal Administrative Assistant Emphasis*

ASSOCIATE IN SCIENCE AND  
CERTIFICATE OF ACHIEVEMENT

A student may earn four certificates of achievements in the Business & Technology program. It is required that a student earn a grade of C or better in the Office Professional I courses.

<b>Course</b>	<b>Units</b>
Required Core Courses (see Office Professional I) .....	28
BT 19 Work Experience (Coop), Occup .....	2
BT 28 Microsoft Word I .....	2
BT 29 Microsoft Word II .....	2
BT 140/PLEGAL 156 Legal Office Administration .....	2
PLEGAL 7 Law Offices Practices .....	3
PLEGAL 14 Law Office Computing .....	3
	Total 42

**MEDICAL BILLING ASSISTANT – Major #2242**

*revised program, Fall 2009*

CERTIFICATE OF ACHIEVEMENT

<b>Course</b>	<b>Units</b>
BT 1 Typing/Document Processing I .....	4
BT 19 Work Experience (Coop), Occup .....	3
BT 23 Job Search and Workplace Skills .....	3
BT 27 Microsoft Outlook .....	1
BT 43 Medical Office Vocabulary .....	1
BT 116 Spelling and Vocabulary Building .....	2
BT 147 Medical Management Software .....	2
BT 148 Medical Insurance Forms .....	3
BT 240 Legal Issues in Medical Billing .....	1
*BT 250 Office Skills Lab .....	1
BT 270 Business Math & 10 Key .....	2
BT 271 Business Grammar Fundamentals .....	2
BT 280 Basic Office Procedures .....	2
	Total 28

*\*BT 250 Course is taken twice.*

*Note: Students must earn a C grade or better in all classes; demonstrate the ability to type 30 words per minute with 97% accuracy; and key 110 correct strokes per minute on the ten-key calculator.*

**MEDICAL OFFICE PROFESSIONAL – Major #2381***revised program, Spring 2009**Formerly Medical Administrative Assistant Emphasis*ASSOCIATE IN SCIENCE AND  
CERTIFICATE OF ACHIEVEMENT

A student may earn four certificates of achievements in the Business & Technology program. It is required that a student earn a grade of C or better in the Office Professional I courses.

<b>Course</b>	<b>Units</b>
Required Core Courses (see Office Professional I) .....	28
BT 10 Computer Applications II .....	4
BT 19 Work Experience (Coop), Occup .....	2
BT 43 Medical Office Vocabulary .....	1
BT 144 Medical Administrative Assistant.....	3
BT 148 Medical Insurance Forms.....	3
	Total 41

**OFFICE PROFESSIONAL I – Major #2061***revised program, Spring 2009**Formerly Clerical Emphasis*ASSOCIATE IN SCIENCE AND  
CERTIFICATE OF ACHIEVEMENT

A student may earn four certificates of achievements in the Business & Technology program. It is required that a student earn a grade of C or better in the Office Professional I courses.

<b>Course</b>	<b>Units</b>
BT 1 Typing/Document Processing I .....	4
BT 2 Typing/Document Processing II .....	4
BT 4 Ten-Key Calculation .....	2
BT 6 Records Management.....	3
BT 9 Computer Applications I .....	4
BT 11 Today's Office .....	2
BT 23 Job Search and Workplace Skills.....	3
BT 112 Business English .....	2
BT 116 Spelling and Vocabulary Building.....	2
BT 122 Typing Skillbuilding.....	1
BT 123 Ten-Key Skillbuilding.....	1
	Total 28

**OFFICE PROFESSIONAL II – Major #2212***revised program, Spring 2009**Formerly Administrative Assistant Emphasis*ASSOCIATE IN SCIENCE AND  
CERTIFICATE OF ACHIEVEMENT

A student may earn four certificates of achievements in the Business & Technology program. It is required that a student earn a grade of C or better in the Office Professional II courses.

<b>Course</b>	<b>Units</b>
Required Core Courses (see Office Professional I) .....	28
BT 10 Computer Applications II .....	4
BT 13 Applied Business Correspondence .....	2
BT 14 Windows .....	2
BT 19 Work Experience (Coop), Occup .....	2
BT 131 Applied Accounting.....	4
	Total 42

## COMMUNICATION

**COMMUNICATION – Major #5430**

*effective Fall 2010*

*Formerly Speech*

The Communication degree program is intended to prepare students for entry into a variety of career options requiring the effective and ethical practice of human communication. Communication courses focus on how people use messages to generate meanings within and across various contexts, cultures, channels and media.

ASSOCIATE IN ARTS DEGREE

**Total Units Required.....18**

<b>Required Core Courses</b>		<b>Units</b>
COMM 1	Intro to Public Speaking .....	3
COMM 2	Interpersonal Communication .....	3
COMM 4	Persuasion .....	3
COMM 8	Group Communication .....	3
COMM 25	Argumentation .....	3
Total 15		

<b>Course options: Select 3 Units</b>		<b>Units</b>
COMM 20	Community Involvement.....	3
COMM 26	Forensics.....	3

*Notes: 1. An associate in arts degree in Communication will be awarded to any candidate who successfully completes a total of 60 units which include associate degree requirements and a minimum of 18 units of course work as listed above. Associate degree requirements are listed on page 35. General Education requirements for transfer certification are listed on page.*

## COMPUTER AIDED DRAFTING AND DESIGN

**COMPUTER AIDED DRAFTING AND DESIGN – Major #3051**

*revised program, Fall 2009*

The field of drafting is one, which serves a wide and varied number of vocations, professions, and industries. The Computer Aided Drafting and Design program directs its courses and training along practical lines as demanded by industry so that students, upon completion of their training, are better qualified to obtain employment in CADD or related occupations.

ASSOCIATE OF SCIENCE DEGREE AND  
CERTIFICATE OF ACHIEVEMENT

FIRST YEAR  
First Semester

		<b>Units</b>
CADD 14	2D CAD I .....	3
CADD 16	3D Solid Modeling I .....	3
DRAFT 12	Drafting Practices .....	3
DRAFT 160	Mathematics of Drafting .....	3
Total 12		

Second Semester

		<b>Units</b>
AT 10	Technical Computer Applications.....	2
CADD 22	Mechanical Drawing I.....	3
CADD 24	2D CAD II .....	3
CADD 26A	3D Solid Modeling II .....	3
CADD 28	Rapid Prototyping I.....	3
Total 14		

SECOND YEAR

First Semester

		Units
AT 31	Technical Reports	3
AT 120	Industrial Science	3
CADD 32	Mechanical Drawing II	3
CADD 36A	3D Solid Modeling III	3
		Total 12

Second Semester

		Units
AT 40	Preparing for Employment Opportunities .....	3
CADD 40	Civil Drafting Applications .....	3
CADD 42	Mechanical Drawing III .....	3
CAM 10	CNC Mill Programming & Operation .....	7
		Total 16

**Recommended Elective:** Drafting 19.

**NOTE:** Students planning to receive the AS degree must meet the Associate of Science degree requirements on page @.

**COMPUTER AIDED MANUFACTURING**

**COMPUTER AIDED MANUFACTURING – Major #8271**

*revised program, Fall 2009*

The CAM Program is designed for students who have a strong interest in hands-on experience both in the classroom as well as in the industry. Core courses ensure students with a knowledgeable foundation using Fresno City College CAM laboratory with forty-six seats of MasterCAM software and 14 Computer Numerical Control Machines. The CAM program teaches students a vast array of CNC Vertical Milling Centers, CNC Lathes and CNC's with fourth and five axes. These software and machines give students the most experiences possible, and help develop skills for our local manufacturing workforce.

ASSOCIATE IN SCIENCE DEGREE AND  
CERTIFICATE OF ACHIEVEMENT

FIRST YEAR

First Semester

		Units
AT 10	Technical Computer Applications.....	2
CAM 10	CNC Mill Programming & Operation I <i>or</i> .....	7
CAM 1A	CAM and Cabinetry Operation I (Day Program) .....	13
		Total 9 or 15

Second Semester

		Units
CAM 20	CNC Mill/Lathe Programming & Operation II <i>or</i> .....	7
CAM 1B	Mill and Lathe Operation II (Day Program) .....	13
DRAFT 12	Drafting Practices .....	3
		Total 10 or 16

SECOND YEAR

First Semester

		Units
AT 40	Preparing for Employment Opportunities .....	3
AT 130	Industrial Mathematics <i>or</i>	
MATH 101	Elementary Algebra (or higher level).....	3-5
		Total 6-8

Second Semester

		Units
AT 21	Occupational Safety .....	2
CADD 16	3D Solid Modeling .....	3
		Total 5

Associate degree requirements are listed on page XX.

**COMPUTER INFORMATION TECHNOLOGY**

**DATA ENTRY TECHNICIAN – Major #2713**

*revised program, Fall 2009*

This program is designed to prepare student for entry level employment as a data entry operator.

CERTIFICATE OF ACHIEVEMENT

<i>First Semester</i>		Units
BT 1	Beginning Typing.....	4
BT 4	Ten-Key Calculations .....	2
CIT 12	Computer Literacy .....	3
DS 117	Business Math.....	3
		Total 12

<i>Second Semester</i>		Units
BA 10	Intro to Business.....	3
CIT 17	Windows Vista Basics .....	2
CIT 80	Internet Basics.....	2
CIT 81	Research on the Web.....	2
		Total 9

**INFORMATION SECURITY I – Major #2714**

*new program, Fall 2009*

Designed to meet the training needs for qualified entry-level computer network security professionals. It is also designed to help prepare students for industry standard security certifications like CompTIA Security+, Security Certified Professional (SCP) and others.

CERTIFICATE

		Units
CIT 57	Wireless Networking.....	3
CIT 58A	Principals of Information Security.....	3
CIT 58B	Operating System Security .....	3
CIT 58C	Network Security Fundamentals .....	3
		Total 12

**INFORMATION SECURITY II – Major #2715**

*new program, Fall 2009*

Designed to meet the training needs for qualified entry-level computer network security professionals. It is also designed to help prepare students for industry standard security certifications like CompTIA Security+, Security Certified Professional (SCP), and others.

CERTIFICATE

		Units
CIT 58D	Network Defense and Countermeasures.....	3
CIT 58E	Firewalls and Network Security.....	3
CIT 58F	Ethical Hacking.....	3
		Total 9

**MICROCOMPUTER SOFTWARE SPECIALIST – Major #2705**

*revised program, Fall 2009*

Designed for the nontransfer student leading to employment as a microcomputer software specialist or similar computer specialist. Completing the program with the college graduation requirements leads to an AS degree; with the graduation requirements, student is eligible for a certificate of achievement.

ASSOCIATE OF SCIENCE DEGREE AND  
CERTIFICATE OF ACHIEVEMENT

*First Year*

<i>First Semester</i>		Units
ACCTG 4A	Financial Accounting .....	4
BA 28	E-Law and Ethics .....	3
BT 106	Computer Keyboarding .....	1.5
CIT 15	Computer Concepts .....	3



MATH 101	Elementary Algebra (if needed) .....	5
	Total	11.5 or 14.5

Second Semester		Units
CIT 17	Windows Vista Basics .....	2
CIT 20	Microsoft Office .....	3
CIT 80	Internet Basics.....	2
CIT 81	Research on the World Wide Web.....	2
	Total	9

*Second Year*

First Semester		Units
CIT 29	PowerPoint .....	1.5
CIT 45	Data Communications.....	3
CIT 60	Beginning Visual Basic.....	3
	Total	7.5

Second Semester		Units
CIT19	Work Experience (Coop), Occup .....	2
CIT 21	Advanced Microsoft Office .....	3
	Total	5

Recommended electives: CIT 68, CIT 260  
 Note: Requires additional general education units for AS degree.

**NETWORKING/COMPUTER TECHNICIAN – Major #2720** *revised program, Fall 2009*

This option is designed to meet the training needs for qualified entry-level microcomputer and networking technicians.

ASSOCIATE IN SCIENCE DEGREE AND  
 CERTIFICATE OF ACHIEVEMENT

<i>First Semester</i>		Units
CIT 15	Computer Concepts .....	3
EST 55A	Digital Concepts .....	3
EST 60	A+ PC Maintenance .....	3
	Total	9

<i>Second Semester</i>		Units
CIT 40	Computer Operating Systems.....	4
*CIT 45	Data Communications.....	3
CIT 50	Fundamentals of Networking .....	4
EST 61	Networking Essentials.....	3
	Total	14

Recommended Courses: BT 23 and CIT 19  
 \*EST 57A and EST 57B may be substituted for CIT 45.  
 Note: Requires additional general education units for AS degree.

**PREPARATION IN MICROSOFT OFFICE – Major #2710** *revised program, Fall 2009*

This certificate option is designed to assist students pursuing MOS certification.

CERTIFICATE

First Semester		Units
BT 27	Microsoft Outlook.....	1
BT 28	Microsoft Word I.....	2
BT 29	Microsoft Word II.....	2
CIT 20	Microsoft Office.....	3

CIT 29	PowerPoint.....	1
	Total	9

Second Semester

		Units
CIT 23	Spreadsheet Fundamentals.....	2
CIT 24	Advanced Spreadsheets.....	2
CIT 26	Database Fundamentals.....	2
CIT 27	Advanced Database.....	2
	Total	8

Note: Courses in the program have CIT 12 or CIT 15 as prerequisites.

**SYSTEM SUPPORT SPECIALIST – Major #2723**

*revised program, Fall 2009*

This option is designed to meet the training needs for qualified entry-level systems support personnel.

CERTIFICATE

<i>Fall Semester</i>		Units
CIT 40	Computer Operating Systems.....	4
CIT 45	Data Communication.....	3
	Total	7

<i>Spring Semester</i>		Units
CIT 48	A+ and Server+ Systems Fundamentals .....	3
EST 60	A+ PC Maintenance .....	3
	Total	6

**WEB DEVELOPER – Major #2470**

*revised program, Fall 2009*

Formerly WEBMASTER

This option is designed to prepare students for work in the computer industry as Web Developers. Completing the program with the college graduation requirements leads to an AS degree; without the graduation requirements, student is eligible for a certificate of achievement.

ASSOCIATE IN SCIENCE DEGREE AND CERTIFICATE OF ACHIEVEMENT

SUGGESTED SEQUENCE OF COURSES:

Advisory: Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Math 101 recommended.

*FIRST YEAR*

First Semester		Units
BA 28	E-Law and Ethics <i>or</i>	
BA 48	E-Business .....	3
CIT 15	Computer Concepts .....	3
CIT 82	Web Technologies.....	3
	Total	9

Second Semester		Units
CIT 28	Client/Server Databases .....	3
CIT 85	Creating Websites .....	3
CIT 93	Client Side Scripting .....	3
	Total	9

*SECOND YEAR*

First Semester		Units
CIT 63	Beginning Java Programming .....	4
CIT 94	Server Side Scripting.....	3
Electives	See list below .....	3-4

Total 10-11

Second Semester		Units
CIT 64	Advanced Java Programming or	
CIT 68	Advanced Programming Applications .....	3-4
CIT 90	Data Driven Websites.....	3
Electives	See list below .....	3-4
Total		9-11

Total Units 37 to 40

Recommended Electives (6 to 9 Units)

CIT40	Computer Operating Systems.....	4
CIT 45	Data Communications.....	3
CIT 50	Fundamentals of Networking .....	4
CIT 60	Beginning Visual Basic.....	3
CIT 66	Beginning C++ Programming.....	4
CIT 80	Internet Basics.....	2
CIT 81	World Wide Web Research.....	2
CIT 260	Computer Skills Lab .....	1

**WEB PAGE DEVELOPMENT – Major #2741**

*revised program, Fall 2009*

This certificate option is designed to assist students who would like to develop web pages.

CERTIFICATE

		Units
CIT 82	Web Technologies.....	3
CIT 85	Creating Websites .....	3
CIT 93	Client Side Scripting .....	3
Total		9

**DANCE**

**DANCE – Major #5390**

*revised program, Spring 2009*

The associate degree in dance provides a base of training in dance technique and practical experience in concert performance and production work as well as theoretical background in dance composition. Possible careers include choreographer\*, dance director, dance historian\*, dancer, dance teacher\*, dance therapist\*, fitness/aerobic instructor, movement notator, performer, reconstructor, and recreation leader.

*\*Bachelor degree or higher required.*

ASSOCIATE IN ARTS DEGREE

**TOTAL UNITS REQUIRED** 33-37

Required Core Courses		Units
DANCE 10	Beginning Modern Dance.....	1
DANCE 12 or		
DANCE 13*	Ballet/Intermediate Ballet .....	2 total
DANCE 14 or		
DANCE 15*	Beg/Int Jazz Dance Technique .....	1
DANCE 20A	Modern Dance Composition.....	3
DANCE 20B	Intermediate Modern Dance Composition .....	3
DANCE 21	Dance Workshop.....	2-4
DANCE 22	Dance Theatre.....	2-4
DANCE 28	Intermediate Modern Dance.....	1
DANCE 30	Dance Appreciation .....	3
MUS 3	Music Fundamentals .....	3
PE 17	Hatha Yoga or	
DANCE 9	Dance Conditioning .....	1
Total		22-26

**\* Class level dependent on entry-level experience**

**NONTRANSFER (PROFESSIONAL) PROGRAM**

Students planning a career in dance upon leaving Fresno City College are urged to complete additional courses in physical education, music and theatre arts.

Required Courses		Units
MUS 12	Music Appreciation	3
PE 20	Athletic Training	3

At least one of the following courses:

TA 12	Fundamentals of Interpretation	3
TA 41	Beginning Acting	3

At least four units from:

TA 26	Theatre Crafts 2	4-6
TA 27B	Introduction to Lighting Design	3
TA 28	Introduction to Stage Makeup	2
TA 35	Costume Crafts	4-6

*Note: The associate degree additionally requires the completing of the requirements listed on page 28 with a 2.0 or better GPA.*

**TRANSFER PROGRAM**

Most four-year colleges and universities will require a dance audition to determine level of placement upon transfer. An effective program of study can best be obtained by consulting directly with the department of the target institution as early as possible.

Course Options: Select 13 units

ART 2	Art Appreciation
ART 3	Two-Dimensional Design
ART 4	Three-Dimensional Design
BIOL 20	Human Anatomy
DANCE 9	Dance Conditioning
DANCE 10	Beginning Modern Dance
DANCE 11	Introduction to Social Dance
DANCE 12	Beginning Ballet
DANCE 13	Intermediate Ballet
DANCE 14	Beginning Jazz Dance Technique
DANCE 15	Intermediate Jazz Dance
DANCE 16	Beginning Tap Dance
DANCE 17	Beginning Mexican Folklorico Dance
DANCE 18	Intermediate Tap Dance
DANCE 21	Dance Workshop
DANCE 22	Dance Theatre
DANCE 27	Advanced Mexican Folklorico Dance
MUS 12	Music Appreciation
PE 17	Hatha Yoga
PE 20	Athletic Training

**ELECTRICAL SYSTEMS TECHNOLOGY**

**+ ELECTRICAL LINE/UTILITY WORKER Major #**

*new program, Spring 2009*

This option is to prepare students for entry level employment as an electrical lineman or utility worker. By completing this option students will also be better prepared for the pre-employment testing process used by utility companies.

**CERTIFICATE OF ACHIEVEMENT**

	Units
AT 40	Employment Preparing for Employment Opportunities.....3
EST 271	Electrical Line/Utility Worker .....12
	<b>Total 15</b>

+ Pending State Chancellor's Office approval.

**GRAPHIC COMMUNICATIONS****GRAPHIC COMMUNICATIONS – Major #8332***revised program, Spring 2009*

This curriculum is for the student considering employment in graphic communications production. Completion of the program will provide entry level skills and a general understanding of production techniques ranging from computerized layout through output in print media, world wide web, interactive multimedia products, and repurposing work for distribution.

**ASSOCIATE IN SCIENCE DEGREE AND  
CERTIFICATE OF ACHIEVEMENT**
**First Year****First Semester**

		<b>Units</b>
GRC 5	Introduction to Macintosh Computer Use.....	1
GRC 10	Introduction to Graphic Communications.....	2
GRC 20	Graphic Communications.....	3
GRC 41	Visual Communications.....	3
	Total	9

**Second Semester**

		<b>Units</b>
GRC 15	Web Page Construction 1 .....	4
GRC 17	Adobe Illustrator .....	3
GRC 18	Production Methods .....	3
GRC 31	Photoshop for Graphics .....	3
	Total	13

**Second Year****First Semester**

		<b>Units</b>
AT 40	Preparing for Employment Opportunities.....	3
GRC 14	Adobe Acrobat Professional.....	3
GRC 27	Digital Video Production.....	4
GRC 30	Quark Xpress/Professional Publishing.....	3
	Total	13

**Second Semester**

		<b>Units</b>
GRC 22	Multimedia 1 .....	4
GRC Elective	.....	3
GRC Elective	.....	3
	Total	10

Recommended electives: BT 6; GRC 13, 16, 23, 24, 32, 33, 34, 39A, 40A; MKTG 11; PHOTO 12

**FILM/VIDEO OPTION – Major #***new program, Spring 2009*

This certificate of achievement is evidence of knowledge and in the rationale and production of digital video media.

**CERTIFICATE**

<b>Course</b>		<b>Units</b>
Film 1	Introduction to Film.....	3
Film 2A	History of Film to 1965 or	
Film 2B	History of Film from 1965 or	
Film 3	Film and Culture or	
Film 5	Digital Filmmaking or	
Film 6	Film Genres.....	3
GRC 27	Digital Video Production.....	4
GRC 32	Video Techniques.....	4
GRC 41	Visual Communications.....	3
	Total	17

**GRAPHIC DESIGN OPTION – Major #8501**

*revised program, Spring 2009*

The Graphic Design Option combines aspects of the graphic communication, fine art, and business curricula to provide a foundation in graphic design. The student interested in pre-press operations will receive a background in art and computer graphics with an understanding of the requirements and limitations of production printing.

ASSOCIATE IN ARTS DEGREE AND  
CERTIFICATE OF ACHIEVEMENT

**First Year**

<b>First Semester</b>		<b>Units</b>
ART 7	Beginning Drawing .....	3
GRC 5	Introduction to Macintosh Computer Use.....	1
GRC 10	Introduction to Graphic Communications .....	2
GRC 17	Adobe Illustrator .....	3
GRC 20	Graphic Communications.....	3
Total		12

<b>Second Semester</b>		<b>Units</b>
GRC 30	Adobe InDesign/Professional Publishing .....	3
GRC 31	Photoshop for Graphics .....	3
GRC 39A	Graphic Design I.....	3
GRC Elective	.....	3
Total		12

**Second Year**

<b>First Semester</b>		<b>Units</b>
AT 40	Preparing for Employment Opportunities.....	3
GRC 14	Adobe Acrobat Professional.....	3
GRC 18	Production Methods .....	3
GRC 40A	Graphic Design II.....	3
Total		12

<b>Second Semester</b>		<b>Units</b>
BA 38	Operation of the Small Business <i>or</i>	
BA 51	Survey of Entrepreneurship <i>or</i>	
MKTG 11	Salesmanship .....	3
GRC Elective	.....	3
GRC Elective	.....	3
Total		9

Recommended electives: GRC 13, 15, 41, 24, 22; PHOTO 12

**MULTIMEDIA OPTION – Major #**

*new program, Spring 2009*

This certificate of achievement is evidence of knowledge of the preparation of images and audio for multimedia output.

CERTIFICATE

<b>Course</b>		<b>Units</b>
GRC 14	Adobe Acrobat Professional.....	3
GRC 22	Multimedia 1 .....	4
GRC 24	Flash Animation <i>or</i>	
GRC 33	Flash for the Web .....	3
GRC 27	Digital Video Production .....	4
GRC 34	Introduction to 3-D Animation.....	3
GRC 41	Visual Communications.....	3
Total		20

**WEB DESIGN OPTION Major #8502**

*revised program, Spring 2009*

This certificate of achievement is evidence of knowledge of the preparation of graphics and web sites for the Internet. Through the creation and capture of images, creation of animation, and layout/design of pages, the student gains insight into graphic industry standards.

CERTIFICATE OF ACHIEVEMENT

<b>Course</b>	<b>Units</b>
GRC 15 Web Page Construction .....	4
GRC 16 Web Design.....	4
GRC 24 Flash Animation or	
GRC 33 Flash for the Web .....	3
GRC 25 Specialized Web Techniques.....	3
GRC 41 Visual Communications.....	3
	Total 17

**HEALTH INFORMATION TECHNOLOGY**

**HEALTH INFORMATION TECHNOLOGY PROGRAM – Major #4621**

*revised program, Fall 2009*

This curriculum has been established to prepare students for a challenging career in health information technology. In the health information technology program, students study the principles and practices of acquiring, analyzing, and protecting digital and traditional medical information vital to providing quality patient care.

There are many and varied employment opportunities for health information professionals in settings such as acute care hospitals, ambulatory care centers, long term care facilities, insurance companies, and state and federal health agencies.

The Health Information Technology Program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM) in cooperation with the American Health Information Management Association (AHIMA). Successful completion of the Health Information Technology Program qualifies the graduate for an Associate in Science degree and eligibility to take the Registered Health Information Technician (RHIT) exam administered by AHIMA.

ASSOCIATE OF SCIENCE DEGREE

Recommended Sequence of Courses

<b>First Semester – Fall</b>		<b>Units</b>
BIOL 5 Human Biology/Anatomy and Physiology .....		4
CIT 15 Computer Concepts .....		3
HIT 1 Introduction to Health Information Management.....		3
HIT 10 Medical Terminology .....		3
		Total 13

**Second Semester - Spring**

HIT 2 Legal Aspects of Health Information	2
HIT 4 Disease Process .....	3
HIT 5 Introduction to Coding .....	3
HIT 12 Health Information in Alternative Settings.....	2
MA 2 Pharmacology .....	3
	Total 13

**Third Semester - Fall**

CIT 20 Microsoft Office .....	3
HIT 3 Quality Improvement	2
HIT 6 Coding and Reimbursement .....	3
HIT 9 Hospital and Health Statistics .....	2
HIT 14 HIM Technology and Systems .....	3
	Total 13

**Fourth Semester - Spring**

HIT 7 Directed Practice .....	5
HIT 8 Management and Supervision .....	3

HIT 11	CPT Coding.....	3
		Total 11

Notes:

1. The associate degree requires the completion of the program and degree requirements with a 2.0 or higher GPA.
2. Biology 20 and 22, or 24 may be substituted for Biology 5.
3. In addition to the courses listed above, all requirements for the Associate Degree in Science must be met. Refer to the Fresno City College Catalog section on certificate and degree and meet with a counselor for advisement.
4. Academic credit earned in accredited institutions of higher education or AHIMA approved schools of Health Information Technology for comparable courses will be accepted for transfer. Equivalency will be determined on the basis of catalogue description, course outline, content comparison, and hour distribution. Credit by examination, when acceptable, may be required when equivalency cannot be determined.

## HONORS

### LEON S. PETERS HONORS PROGRAM – Major #

*revised program, Fall 2009*

#### CERTIFICATE

A Leon S. Peter Certificate in Honors will be awarded to Honors students who successfully complete a minimum of 17 credits of Honors courses including 2 colloquium units with an overall GPA of 3.2 or better.

#### REQUIRED COURSE

Course	Units
*ENGL 1AH Honors Reading and Composition .....	4

\* An exception can be made if student has successfully completed ENGL 1A prior to entering the Honors program.

#### ELECTIVE COURSES – Select a minimum of 11 units

Course	Units
ACCTG 4AH Honors Financial Accounting or	
ACCTG 4BH Honors Managerial Accounting .....	4
ANTHRO 2H Honors Cultural Anthropology .....	3
ART 5H Honors Art History 1 or	
ART 6H Honors Art History 2 .....	3
BA 10H Honors Introduction to Business .....	3
BIOL 1H Honors Principles of Biology .....	4
ECON 1AH Honors Macroeconomics .....	3
ENGL 1BH Honors Introduction to Literature.....	3
ENGL 3H Honors Critical Reading & Writing.....	3
HIST 1H Honors Western Civilization to 1648 or	
HIST 2H Honors Western Civilization Since 1648 .....	3
HUM 10H Honors Classical Humanities or	
HUM 11H Honors Modern Humanities .....	3
PHIL 1AH Honors Theories of Knowledge and Reality .....	3
POLSCI 2H Honors American Government.....	3
PSY 2H Honors General Psychology .....	3

#### COLLOQUIA – Select a minimum of 2 units

HONORS 1A Honors Science Colloquium .....	1
HONORS 1B Honors Humanities Colloquium.....	1
HONORS 1C Honors Humanities Colloquium.....	1
HONORS 1D Honors Business & Economics Colloquium .....	1
HONORS 1E Honors Social Science Colloquium .....	1
HONORS 1F Honors Phi Theta Kappa Colloquium.....	1

## JOURNALISM



**+JOURNALISM – Major #**

*new program, Fall 2009*

The Journalism Major introduces students to the mass media as consumers and as potential practitioners. The program focuses on the theory and practice of gathering, processing, and delivering news. It prepares individuals to be professional print journalists, news editors, and news managers. It includes instruction in news writing and editing; reporting; photojournalism; layout and graphic design; journalism law and policy; professional standards and ethics; research methods; and journalism history and criticism. Journalism majors will have the opportunity to fulfill lower division major requirements for preparation of transfer to a four-year university or to join the workforce.

ASSOCIATE IN ARTS DEGREE

Required Core Courses

Course		Units
JOURN 1	Introduction to Mass Communication.....	3
JOURN 3	Newswriting.....	3
JOURN 16	Race, Gender, and the Media.....	3
	Total	9

**Department Publication Requirement**

JOURN 4	Writing for the College Newspaper <i>OR</i>	
JOURN 5	Newspaper Production.....	3
JOURN 6	Magazine Production.....	3
	Total	6

*(These classes are repeatable, and each may be applied twice.)*

Additional Courses

Students must choose a minimum of 5 units from the following courses

ART 5	Art History 1.....	3
ECON 1A	Introduction to Macroeconomics.....	3
GRC 10	Introduction to Graphic Communications.....	2
GRC 41	Visual Communications.....	3
JOURN 2	Interpreting Current Events.....	3
JOURN 9	Feature Writing.....	3
JOURN 15	Basic Editing for Journalists.....	2
JOURN 19	Work Experience.....	1-8
PHOTO 30	Photojournalism and Visual Communication.....	3
PHIL 1C	Ethics.....	3

*Note:* An Associate in Arts Degree in Journalism will be awarded to students who successfully complete a total of 60 units, which include the Associate Degree requirements and a minimum of 27 units of major coursework listed above. Students seeking an associate degree may apply for an evaluation after they have completed 30-40 units and are within one year of graduation.

*Courses used for the Journalism major can also be used to fulfill requirements for graduation or transfer.*

**LIBERAL ARTS INTERDISCIPLINARY SCIENCE EMPHASIS**

**INTERDISCIPLINARY SCIENCE EMPHASIS – Major #5147/5147T (transfer) *revised program, Fall 2010***

The degree program is meant for students who need a broad knowledge of science, math and engineering in the context of a degree that will assist them to function as good citizens. It will be specifically useful to persons who are planning to take up jobs in the following sectors: public policy, media & journalism.

*Choose classes worth 20 units from the following, with no more than 2 classes from any subject area:*

Course		Units
BIOL 1/1H	Principles of Biology.....	4
BIOL 3	Introduction to Life Science.....	4
BIOL 4	Principles of Zoology.....	5
BIOL 5	Human Biology.....	4
BIOL 6	Principles of Botany.....	5

BIOL 7	Field Biology.....	4
BIOL 11A/11AH	Biology for Science Majors I.....	5
BIOL 11B	Biology for Science Majors II.....	5
BIOL 20	Human Anatomy.....	4
BIOL 22	Human Physiology .....	5
BIOL 24	Human Anatomy and Physiology.....	5
BIOL 31	Microbiology .....	5
BIOL 46	Elementary Horticulture.....	4
CHEM 1A	General Chemistry .....	5
CHEM 1B	General Chemistry & Qualitative Analysis .....	5
CHEM 3A	Introductory General Chemistry .....	4
CHEM 3B	Introductory Organic & Biological Chemistry .....	3
CHEM 8A	Elementary Organic Chemistry .....	3
CHEM 28A	Organic Chemistry.....	3
GEOL 1	Physical Geology.....	4
GEOL 2	Historical Geology .....	3
GEOL 9	Introduction to Earth Science.....	3
ENGR 1A	Elementary Plane Surveying 1.....	4
ENGR 1B	Elementary Plane Surveying 2.....	4
ENGR 2	Engineering Graphics.....	4
ENGR 4	Engineering Materials .....	3
ENGR 6	Circuits with Laboratory.....	4
ENGR 8	Statics.....	3
ENGR 10	Introduction to Engineering .....	2
ENGR 11	Manufacturing Processes.....	3
MATH 4A	Trigonometry .....	4
MATH 4B	Pre-Calculus.....	4
MATH 5A	Mathematical Analysis I .....	5
MATH 5B	Mathematical Analysis II .....	4
MATH 6	Mathematical Analysis III .....	4
MATH 7	Introduction to Differential Equations .....	4
MATH 10A	Structure & Concepts in Mathematics I.....	3
MATH 10B	Structure & Concepts in Mathematics II.....	3
MATH 11	Elementary Statistics.....	4
MATH 21	Finite Math.....	3
MATH 26	Elementary Linear Algebra.....	3
MATH 42	Statistics for the Behavioral Sciences .....	4
MATH 45	Contemporary Math .....	3
MATH 48A	Pre-Calculus Workshop .....	1
MATH 48B	Calculus Workshop I .....	1
MATH 48C	Calculus Workshop II .....	1

## LIBERAL STUDIES

### **LIBERAL STUDIES – Major #5147/5147T (transfer)**

*revised program, Fall 2009*

The Liberal Studies major is designed to prepare students to transfer to a CSU ready to continue for a multi-subject teaching credential. This major for elementary teaching blends three elements – the General Education Program, the courses required in the Liberal Studies major, and the courses required for teacher preparation – which can result in a B.A. in Liberal Studies and a preliminary Multiple Subject Teaching Credential or Educational Specialist Credential.

***Since credential requirements change continually, students must see a counselor each semester for current information.***

### REQUIREMENTS:

Course		Units
ART 2	Art Appreciation or	
ART 5/5H	Art History 1 or	
ART 6/6H	Art History 2 or	
MUS 3	Music Fundamentals or	
MUS 12	Music Appreciation or	
MUS 13	History of Music or	

TA 30	Theatre Appreciation.....	3
BIOL 3	Introduction to Life Science.....	4
CHDEV/PSY 39	Child Development.....	3
CIT 12	Computer Literacy <i>or</i>	
CIT 15	Computer Concepts .....	3
CRIM 13	The Constitution and Your Individual Rights <i>or</i>	
ENGL 3/3H	Critical Reading and Writing <i>or</i>	
PHIL 4	Critical Reasoning <i>or</i>	
PHIL 6	Introduction to Logic <i>or</i>	
POLSCI 13	Legal and Judicial Reasoning <i>or</i>	
SPEECH 25	Argumentation.....	3
EDA 19	Work Experience (Cooperative), Occupational.....	1-8
EDUC 30	Survey of Education .....	3
ENGL 1A	Reading and Composition <i>or</i>	
ENGL 1AH	Honors Reading and Composition .....	4
ENGL 1B/1BH	Introduction to the Study of Literature <i>or</i>	
ENGL 1B/1BH	Honors Introduction to the Study of Literature <i>or</i>	
HUMAN 10/10H	Classical Humanities <i>or</i>	
HUMAN 11/11H	Modern Humanities .....	3
GEOG 4A	World Geography <i>or</i>	
GEOG 4B	World Geography .....	3
GEOL 9	Introduction to Earth Science .....	3
HIST 11	History of the United States to 1877 .....	3
HIST 20	Comparative World Civilizations to 1600 .....	3
LING 11	Introduction to Language for Educators.....	3
MATH 10A	Structure and Concepts in Mathematics I .....	3
MATH 10B	Structure and Concepts in Mathematics II .....	3
NATSCI 1A	Integrated Science: Physics and Chemistry .....	4
POLSCI 2/2H	American Government .....	3
SPEECH 1	Introduction to Public Speaking <i>or</i>	
SPEECH 2	Interpersonal Communication <i>or</i>	
SPEECH 4	Persuasion .....	3
	Total 58-65	

**NOTES:**

1. #Admission to the CSU requires “C” grades in CSU GE Area A and B.4, and in six (6) additional A-E courses. A minimum **2.67 GPA** is required to enter all credential programs at CSUF.
2. The CLAD is now the “English Learner Authorization,” and is all upper division. The program does not require foreign language; however, the BCLAD program is still active.
3. It is recommended that students take and pass the CBEST Exam as soon as they have completed ENGL 1A and MATH 10A.

**ASSOCIATE DEGREE REQUIREMENTS**

Students who meet CSU transfer admission and the Liberal Studies Blended major requirements will generally meet FCC requirements for the Associate in Arts Degree, Liberal Arts Major, if they also complete:

1. Two PE courses (see catalog for exclusions)
2. Sixty (60) total units (minimum)

**MAJOR CONCENTRATIONS**

In addition to the requirements of the Liberal Studies Blended Major listed above, students are required to **select one of the** Major Concentrations, and take nine-twelve units in that concentration. Below are the eight concentrations which have lower division courses. Depending on the concentration students can take one or two courses (three to six units) at the community college from one of the eight concentrations available at Fresno City College and eight other community colleges in Central California.

**CONCENTRATION OPTIONS:**

1. Art (May take up to 6 units)  
ART 7; ART 8; ART 9; ART 11; ART 10; ART5 or 5H; ART 6 or 6H
2. English – Creative Writing Option (May take up to 4 units)  
ENGL 15A; ENGL 15B
3. English – Literature Option (May take up to 4 units)  
ENGL 1B or 1BH

4. Children and the Arts (May take up to 3 units)  
 Art 2; Art 5 or 5H; Art 6 or 6H; Art 7; Art 9; Art 11; Art 10  
 ART 12A or 12B; MUS 3; MUS 12 or 13; TA 12; TA 41
5. World History and American Studies (May take up to 6 units)  
 HIST 1 or 1H; HIST 2 or 2H; HIST 12
6. Social Institutions & Processes (May take up to 6 units)  
 HS 2 or SOC 2; ANTHRO 2 or 2H; CLS 14 or SOC 14; ECON 1B or ECON 1BH  
 ECON 1A or ECON 1AH; GEOG 2; SOC 1A; WSTS 10
7. Child & Family Sciences (May take up to 3 units)  
 CHDEV 38 or PSY 38; CHDEV 37A
8. Math (May take up to 3 units)  
 MATH 5A

**Program Outcomes:**

1. The proposed sequence of courses will begin to prepare the student for the CBEST and CSET tests.
2. The proposed sequence of courses will begin to develop skills to teach the arts, language, literature, history, social studies, and mathematics effectively at the elementary level.
3. The proposed sequence of courses will provide the coursework needed for FCC students to transfer to CSUF as rising juniors in the multi-subject teaching credential program.

**LIBRARY TECHNOLOGY**

**LIBRARY TECHNOLOGY – Major #5171**

*revised program, Fall 2009*

**ASSOCIATE IN SCIENCE DEGREE**

Requires completion of the minimum (22 units) with a 2.0 or better in all required course work. Additionally requires completion of the associate degree requirements found in the Fresno City College 2008-2010 Catalog. Students seeking an associate degree may apply for an evaluation at Admissions and Records after they have completed 30-40 units and are within a year of graduation.

**CERTIFICATE OF ACHIEVEMENT**

Requires completion of the minimum (22 units). All required courses must be completed with a grade of “C” or better.

Students interested in a Certificate of Achievement are urged to consult a counselor or faculty advisor regarding this program.

**Required Course Work (major – 22 units)**

	Units
LIBSKL 2 Information and Computer Literacy .....	3
LITEC 51 Introduction to Library Services.....	3
LITEC 52 Library Technical Services .....	3
LITEC 54 Literature and Services for Youth.....	3
LITEC 55 Library Public Service.....	3
LITEC 56 Information Technology.....	3
LITEC 57 Reference: Print and Online Sources.....	3
	Total 21

**One course from the list below**

BT 20 Resume/Interview.....	1.5
BT 21 Working Relationships.....	1.5
WKEXP 19 General Work Experience .....	1-8
	Total 1-8

## LIFE SCIENCE

### LIFE SCIENCE – Major #6080

revised program, Fall 2010

This program is designed to provide students with foundational knowledge in biological principles and concepts. This two year associate degree program is intended for transfer students majoring in the biological sciences.

The Biological and Life Sciences Program at Fresno City College provides entry level instruction in the following: fulfillment of prerequisites for entry into allied health fields, fulfillment of prerequisites for students transferring into biological sciences and fulfillment of general education requirements for transfer to four-year institutions.

Specific biology courses to meet degree requirements (14 units total): Recommended sequence is Biology 1, 4, 6.

### ASSOCIATE IN SCIENCE DEGREE

*Specific Biology courses to meet degree requirements: (14 units total)*

	<b>Units</b>
BIOL 1/1H Principles of Biology .....	4
BIOL 3 Introduction to Life Science .....	4
BIOL 4 Principles of Zoology .....	5
BIOL 5 Human Biology .....	4
BIOL 6 Principles of Botany.....	5
BIOL 7 Field Biology .....	4
BIOL 11A/11AH Biology for Science Majors I.....	5
BIOL 11B Biology for Science Majors II.....	5
BIOL 20 Human Anatomy.....	4
BIOL 22 Human Physiology .....	5
BIOL 24 Human Anatomy and Physiology .....	5
BIOL 31 Microbiology .....	5
BIOL 46 Elementary Horticulture.....	4

*Specific Physical Science courses to meet degree requirements: (6 units total)*

	<b>Units</b>
<b>ASTRONOMY</b>	
ASTRO 10 Basic Astronomy .....	3
<b>CHEMISTRY</b>	
CHEM 1A General Chemistry .....	5
CHEM 1B General Chemistry and Qualitative Analysis.....	5
CHEM 3A Introductory General Chemistry .....	4
CHEM 3B Introductory Organic & Biological Chemistry .....	3
CHEM 8A Elementary Organic Chemistry .....	3
<b>GEOLOGY</b>	
GEOL 1 Physical Geology.....	4
GEOL 2 Historical Geology .....	3
GEOL 4 Geology of California.....	3
GEOL 5 Introduction to Oceanography.....	3
<b>GEOGRAPHY</b>	
GEOG 1 Physical Geography .....	3
GEOG 7 Physical Geography: Earth's Surface .....	4
GEOG 8 Physical Geography: Weather and Climate .....	4
<b>PHYSICAL SCIENCE</b>	
PHYSC 7 Environmental Science .....	3
<b>PHYSICS</b>	
PHYS 2A General Physics 1 .....	4
PHYS 2B General Physics 2 .....	4
PHYS 4A Physics for Scientists and Engineers.....	4
PHYS 4B Physics for Scientists and Engineers.....	4

## NURSING

### **NURSING, REGISTERED – Major #4520\*\***

*revised program, Spring 2009*

The profession of registered nursing involves the provision of health care services, both direct and indirect, that focus on the maintenance, promotion and restoration of health. This includes basic health care to help people cope with difficulties in daily living that are associated with actual or potential problems of health, illness or the treatment thereof. Nursing is a dynamic problem-solving profession that focuses on the response of the individual to health problems. The practice of registered nursing requires a substantial amount of scientific knowledge and technical skills as well as leadership and managerial abilities. Students attend classes on the Fresno City College campus. Nursing experience is provided in selected local hospitals and health agencies.

### **Nursing, Registered**

#### **Application Requirements**

Enrollment in the Registered Nursing Program is limited. Minimum qualifications for selection must be met. There are no restrictions as to age, race, sex or marital status. Prior to the final date for filing an application to the program, the applicant must have:

1. Graduated from high school with a minimum grade point average of "C+" (2.5) or better in high school work or completed the General Educational Development (GED) test with an average standard score of 45.
2. Completed Chemistry 3A or equivalent with a grade of "C" or better.
3. Completed Biology 20, Human Anatomy, and Biology 22, Human Physiology, (or equivalents) with a grade of "C" or better in each course.
4. Completed Biology 31, Microbiology, with a grade of "C" or better.
5. Completed Sociology 1A, Introduction to Sociology or *Anthropology 2, Cultural Anthropology*; and Psychology 2, General Psychology; with grades of "C" or better in each course.
6. Completed English 1A, Reading and Composition, with a grade of "C" or better.
7. Completed Mathematics 103, Intermediate Algebra, or a more advanced math course with a grade of "C" or better.
8. Attained a cumulative grade point average (GPA) of "C+" (2.5) or better in completed college work.
9. Completed an Academic Summary Form for the Registered Nursing Program and be prepared to furnish transcripts when requested to do so.
10. Have no physical impairment that would preclude the performance of all registered nurse duties.
11. Be in good physical and mental health.

*Notes: 1. The college GPA and college courses of an applicant will have precedence over an applicant's high school GPA and courses.*

*2. Prior to registration for the semester in which the applicant is scheduled to take courses in the Registered Nursing Program, the student must submit evidence of physical examination, current immunizations, and freedom of TB by a licensed physician. The student is also required to attend a mandatory orientation meeting before the start of the semester.*

*3. Students may be required to complete a background check.*

Change of Name, Address, and/or Telephone Number

Applicants and nursing students must keep the Nursing Education Office informed of any change in name, address, and/or telephone number. Failure of applicants to inform the Nursing Education Office of changes may result in loss of entry into the program.

Vocational Nursing Articulation

Procedures and application requirements specific to vocational nurse articulation into the Registered Nursing Program are available upon request.

#### **Previous Education in Nursing**

Any person desiring to enter the Fresno City College Registered Nursing Program by transfer or challenge will be evaluated on an individual basis after all college general requirements for transfer or challenge have been met. The college has written policies and procedures for academic training in registered nursing programs. Individuals who have completed vocational nursing programs and persons having other education in the field of nursing should contact the Director of Nursing for specific information.

#### **Prenursing Preparation**

Prenursing students planning to transfer to four-year programs in other schools should consult the catalog of the transfer school.

**Academic Requirements**

All program entry requirement courses listed above must be completed with a grade of “C” or better. In order to be eligible to apply for licensure as a Registered Nurse and to take the National Council Licensure Examination–RN, all other courses leading to the associate degree must also be completed with a grade of “C” or better. Students in the nursing program must earn a “C” grade or better (or a “Credit” grade when applicable) in all nursing courses. Less than a “C” or a “Credit” grade in any nursing course requires that the course be repeated before continuing with the major. Registered Nursing courses must be repeated in their entirety. Courses may be repeated once only. Safe nursing practice is necessary for retention of students in the program.

If, based on the professional judgment of the faculty, a student demonstrates that he/she is unsuited to nursing, is not progressing satisfactorily or is engaged in unethical, unprofessional, or illegal practices, he/she may be asked to withdraw from the program.

**State License**

The successful completion of the prescribed registered nursing course sequence in addition to the other licensure and/or degree requirements qualifies the graduate for an associate in science degree and eligibility to apply for licensure as a Registered Nurse.

The successful completion of the prescribed registered nursing course sequence in addition to the other licensure and/or degree requirements qualifies the graduate for an associate in science degree and eligibility to apply for licensure as a Registered Nurse.

**ASSOCIATE IN SCIENCE DEGREE**

Registered Nursing Course Sequence (All courses must be completed with a grade of “C” or better.)

**FIRST YEAR**

<b>First Semester</b>		<b>Units</b>
RN 31	Foundations and Introduction to Medical-Surgical Nursing .....	4
RN 32	Foundations and Introduction to Medical-Surgical Nursing Clinical .....	2
RN 32A	Foundations and Introduction to Medical-Surgical Nursing Skills .....	2
RN 33	Transcultural Health Care.....	1
RN 35A	Pharmacology A: Introduction to Pharmacology .....	1
		Total 10

<b>Second Semester</b>		<b>Units</b>
RN 35B	Pharmacology B: Nursing Pharmacological Applications.....	2
RN 41	Nursing Care of the Adult with Common Health Problems .....	2.5
RN 42	Nursing Care of the Adult with Common Health Problems Clinical.....	2
RN 42A	Nursing Care of the Adult with Common Health Problems Skills .....	1
RN 45	Nursing Care of the Childbearing Family.....	2
RN 46	Nursing Care of the Childbearing Family Clinical .....	2
		Total 11.5

**SECOND YEAR**

<b>Third Semester</b>		<b>Units</b>
RN 51	Nursing Care of the Adult with Complex Health Problems.....	2.5
RN 52	Nursing Care of the Adult and Older Adult with Complex Health Problems Clinical ....	2
RN 52A	Nursing Care of the Adult and Older Adult with Complex Health Problems Skills ....	0.5
RN 53	Nursing Care of the Older Adult.....	1.5
RN 55	Nursing Care of Infants & Children .....	2
RN 56	Nursing Care of Infants & Children Clinical .....	2
		Total 10.5

<b>Fourth Semester</b>		<b>Units</b>
RN 61	Nursing Care of the Critically Ill Adult and Coordinator of Care .....	2.5
RN 62	Nursing Care of the Critically Ill Adult and Coordinator of Care Clinical.....	4
RN 62A	Nursing Care of the Critically Ill Adult Skills.....	0.5
RN 65	Nursing Care of the Client with Behavioral and Emotional Disorders .....	2
RN 66	Nursing Care of the Client with Behavioral and Emotional Disorders Clinical .....	1.5
		Total 10.5

**LVN to RN Upgrade**

<b>Prior to Entering Third Semester Fresno City College Nursing Curriculum</b>		<b>Units</b>
RN 101	Transition to Fresno City College Registered Nursing Program .....	1
RN 102	Transition to Fresno City College Registered Nursing Program Skills .....	1-2
		Total 2-3

<b>Third Semester</b>		<b>Units</b>
RN 51	Nursing Care of the Adult with Complex Health Problems .....	2.5
RN 52	Nursing Care of the Adult and Older Adult with Complex Health Problems Clinical ....	2
RN 52A	Nursing Care of the Adult and Older Adult with Complex Health Problems Skills ....	0.5
RN 53	Nursing Care of the Older Adult.....	1.5
		Total 6.5

<b>Fourth Semester</b>		<b>Units</b>
RN 61	Nursing Care of the Critically Ill Adult and Coordinator of Care .....	2.5
RN 62	Nursing Care of the Critically Ill Adult and Coordinator of Care Clinical.....	4
RN 62A	Nursing Care of the Critically Ill Adult Skills.....	0.5
RN 65	Nursing Care of the Client with Behavioral and Emotional Disorders .....	2
RN 66	Nursing Care of the Client with Behavioral and Emotional Disorders Clinical .....	1.5
		Total 10.5

**Required Courses on Entry for Transfer Students from other Accredited Nursing Programs:Units**

RN 101	Transition to Fresno City College Registered Nursing Program .....	1.5
RN 102	Transition to Fresno City College Registered Nursing Program Skills .....	1-2

**Elective Courses:**

- RN 19 Work Experience (Cooperative), Occupational
- RN 105 Medication Math
- RN 107 Introduction to Nursing Process
- RN 201 NCLEX-RN Review (not part of the program)

**Degree/Licensure Requirements**

In addition to the program application requirements and the program course requirements, the following courses are required to apply for licensure.

Speech 1 or 2. All course work must be completed with a “C” or better.

Electives to complete the AS degree requirements. All course work must be completed with a “C” or better.

*Note: All application requirements, program requirements, and selection criteria are subject to change. Students will enter the selection pool based on the current catalog or catalog supplement. Contact a Fresno City College Health Career Counselor every semester for current information.*

*\*\* Pending Board of Registered Nursing approval.*

**PARALEGAL**

**PARALEGAL – Major #2550**

*revised program, Spring 2009*

This curriculum is designed for the student who desires employment and advancement in the field of paralegal work.

**ASSOCIATE IN SCIENCE DEGREE AND CERTIFICATE OF ACHIEVEMENT**

Completion of 31 units of common-core courses.

**REQUIRED CORE COURSES**

**Units**

BA 20	Law and the Legal System.....	3
BT 28	Word I.....	2
BT 29	Word II.....	2
PLEGAL 1	Introduction to Paralegalism.....	3
PLEGAL 2A	Legal Research & Writing I .....	3
PLEGAL 2B	Legal Research & Writing II .....	3



PLEGAL 6A	Litigation I .....	3
PLEGAL 6B	Litigation II .....	3
PLEGAL 7	Law Office Practices.....	3
PLEGAL 14	Law Office Computing .....	3
PLEGAL 19	Work Experience (300 hours) .....	4

Total Core Curriculum 32

**ELECTIVES**

**Units**

Choose any 2 of the following courses for a total of 6 units:

PLEGAL 3	Family Law .....	3
PLEGAL 4	Probate.....	3
PLEGAL 5	Business Organizations .....	3
PLEGAL 8	Torts/Contracts.....	3
PLEGAL 9	Real Property .....	3
PLEGAL 10	Criminal Law & Procedure .....	3
PLEGAL 11	Evidence.....	3
PLEGAL 12	Bankruptcy .....	3
PLEGAL 13	Discovery/Trial Preparation.....	3
PLEGAL 15	Debt Collection & Enforcement of Judgments ...	3
PLEGAL 16	Environmental Law.....	3
PLEGAL 17	Administrative Law/Workers' Compensation.....	3
PLEGAL 18	Employment Law.....	3
PLEGAL 20	Civil Rights and Liberties.....	3
PLEGAL 156/BT 140	Legal Office Administration .....	3

Total 38

**PHOTOGRAPHY**

**PROFESSIONAL PHOTOGRAPHY – Major #5221**

*revised program, Fall 2010*

*Formerly Photography*

Students in this curriculum are trained in the major areas of professional photography. Positions for which graduates may qualify, depending upon their interest, abilities, and achievement, include those in the portrait, commercial, editorial, digital, laboratory, and retail fields. Some equipment and supplies provided.

ASSOCIATE IN SCIENCE DEGREE AND  
CERTIFICATE OF ACHIEVEMENT

**First Year**

First semester

<b>Course</b>		<b>Units</b>
PHOTO 6	Digital Camera Fundamentals.....	1.5
PHOTO 7	Applied Camera Fundamentals.....	1.5
PHOTO 12	Photoshop 1: Photoshop for Photographers.....	3
PHOTO 15	Photography and Visual Literacy .....	3
		Total 9

Second Semester

<b>Course</b>		<b>Units</b>
PHOTO 18	Digital Black and White Photography.....	3
PHOTO 23	Photoshop 2: Digital Darkroom .....	3
PHOTO 26	Lighting Principles .....	3
		Total 9

**Second Year**

First Semester

<b>Course</b>		<b>Units</b>
PHOTO 30	Editorial Photography.....	3

PHOTO 32	Commercial Portraiture .....	3
Elective	.....	3
		Total 9

Second Semester

Course		Units
PHOTO 40	Professional Photographic Practices .....	3
PHOTO 45	Advanced Projects .....	3
Elective	.....	3
		Total 9

Recommended Electives: Photography 27, Photography 37, Photography 47  
 Note: Associated degree requirements are listed on page .

**COMMERCIAL PHOTOGRAPHY – Major #5222**  
 CERTIFICATE OF ACHIEVEMENT

*revised program, Fall 2010*

		Units
PHOTO 23	Photoshop 2: Digital Darkroom .....	3
PHOTO 26	Lighting Principles .....	3
PHOTO 32	Commercial Portraiture .....	3
PHOTO 40	Professional Photography Practices .....	3
		Total 12

**DIGITAL PHOTOGRAPHY – Major #5223**  
 CERTIFICATE OF ACHIEVEMENT

*revised program, Fall 2010*

		Units
PHOTO 18	Digital Black and White Photography .....	3
PHOTO 23	Photoshop 2: Digital Darkroom .....	3
PHOTO 40	Professional Photography Practices .....	3
PHOTO 47	Book/Video Publishing .....	3
		Total 12

**FINE ART PHOTOGRAPHY – Major #5224**  
 CERTIFICATE OF ACHIEVEMENT

*revised program, Fall 2010*

		Units
PHOTO 15	Photography and Visual Literacy .....	3
PHOTO 17	Classic Black and White Photography .....	3
PHOTO 23	Photoshop 2: Digital Darkroom .....	3
PHOTO 27	Alternative Photographic Processes .....	3
		Total 12

**PHOTOJOURNALISM – Major #5225**  
 CERTIFICATE OF ACHIEVEMENT

*revised program, Fall 2010*

		Units
PHOTO 30	Editorial Photography .....	3
PHOTO 37	Editorial Portraiture.....	3
PHOTO 40	Professional Photography Practices .....	3
PHOTO 47	Book/Video Publishing .....	3
		Total 12

## PSYCHOLOGY

### + PSYCHOLOGY Major #

*new program, Fall 2009*

The Psychology AA Program is designed to provide a strong academic foundation for students planning to major in Psychology at a four-year institution. However, the program's coursework offers significant benefits for students interested in a wide variety of other professional or paraprofessional careers. Psychology is the scientific study of human behavior and mental processes. Two of the field's key features reflect the highly valuable approach psychology takes to gain knowledge about human behavior. First, psychology emphasizes the use of critical thinking and the scientific method to ask questions, acquire and evaluate information, and solve problems. Second, the field recognizes the complexity of human behavior, and is guided by the idea that a complete understanding of human behaviors, emotions, and thoughts must include an analysis of factors as diverse as biological, interpersonal, and sociocultural influences. Thus, psychology represents a method of inquiry that can be a useful tool for students with a variety of interests and career goals.

### ASSOCIATE IN ARTS DEGREE

#### REQUIRED CORE COURSES

Course	Units
PSY 2      General Psychology .....	3
PSY 36     Biological Psychology.....	3
PSY 42     Statistics for the Behavior Sciences.....	4
	Total      10

#### ELECTIVES

	Units
Depth: Choose two of the following:	
PSY 5      Social Psychology .....	3
PSY 12     Child Abuse .....	3
PSY 15     Psychology of Religion.....	3
PSY 16     Abnormal Psychology.....	3
	Total      6

#### Lifespan: Choose one of the following:

PSY 25     Human Sexuality .....	3
PSY 33     Personal & Social Adjustment.....	3
PSY 38     Lifespan Development .....	3
PSY 39     Child Development .....	3
	Total      3

#### Diversity: Choose one of the following:

AFRAM 1    African-American Culture .....	3
AMIND 31   American Indian Culture.....	3
AMST 10    American Pluralism .....	3
ANTHRO 2   Cultural Anthropology.....	3
ASAMER 15 Introduction to Asian-Americans .....	3
CLS 11     Chicano-Latino Studies .....	3
SOC 2      American Minority Groups.....	3
WSTS 10    Roles of Women.....	3
	Total      3

Note: An Associate in Arts Degree in Psychology will be awarded to students who successfully complete a total of 60 units, which include the Associate Degree requirements and a minimum of 22 units of major coursework listed above. Students seeking an associate degree may apply for an evaluation after they have completed 30-40 units and are within one year of graduation.

## SIGN LANGUAGE INTERPRETING

### +SIGN LANGUAGE INTERPRETING PREPARATION – Major #

*new program, Fall 2009*

To prepare students for entry-level interpreting positions in a variety of settings such as schools, social service agencies and limited medical situations.

#### CERTIFICATE OF ACHIEVEMENT

		Units
ASL 4	High-Intermediate American Sign Language .....	4
ASL 5	Deaf Culture .....	3
ASL 6	Structure of American Sign Language.....	3
ASL 7	Deaf History.....	3
ASL 8	American Sign Language Literature .....	3
ASL 20	Introduction to Interpreting.....	3
ASL 21	American Sign Language to English Translation .....	3
ASL 22	English to American Sign Language Translation .....	3
	Total	25

+ Pending State Chancellor's Office approval.

## THEATRE ARTS

### THEATRE ARTS – Major #5440

*revised program, Spring 2009*

The Theatre Arts major is more Performance oriented than the Design/Technical Theatre Studies major. Both major options emphasize a “hands on” approach and places special focus on the “well rounded” theatre artist. Students who complete the program can successfully transfer to a competitive four-year university or conservatory.

#### ASSOCIATE IN ARTS DEGREE

##### Required Courses

		Units
TA 24	Theatre Crafts Practicum .....	3
TA 25	Theatre Crafts I <i>or</i>	
TA 26	Theatre Crafts II .....	3
TA 30	Theatre Appreciation, <i>or</i>	
TA 15C	Playwriting .....	3
TA 31	Theatre History and Literature I .....	3
TA 32	Theatre History and Literature II .....	3
TA 34	Costume Practicum .....	3
TA 35	Costume Crafts .....	3
TA 40	Performance Practicum <i>or</i>	
**TA 24	Theatre Crafts Practicum <i>or</i>	
**TA 34	Costume Crafts Practicum .....	3
TA 41	Beginning Acting, <i>or</i>	
TA 42	Beginning Acting for Theatre Majors.....	3
TA 43	Intermediate Acting .....	3
TA 44	Actors Workshop .....	3
TA 46	Voice for the Actor.....	3
	Total	36

\*\* In addition to completing 3 units of Theatre Crafts Practicum and 3 units of Costume Crafts Practicum.

Recommended elective: DANCE 9, 10, 11, 12, 14, 16; TA 28, 48

## WIND TURBINE TECHNOLOGY

### +WIND TURBINE TECHNOLOGY – Major #

This curriculum is designed to prepare the student for entry into the field of utility scale Wind Power Generation.

#### CERTIFICATE OF ACHIEVEMENT

#### FIRST YEAR

<b>First Semester</b>		<b>Units</b>
EST 51	DC electronics .....	3
EST 80	Intro to Energy Sys Past, Present & Future .....	2
HLTH 2	First Aid and Safety .....	2
		Total 7

<b>Second Semester</b>		<b>Units</b>
EST 52A	AC Electronics.....	3
EST 96A	National Electric Code – Elect Safety .....	3
WTT 1	Intro and Safety in Utility Wind Turbine Gen.....	2.5
		Total 8.5

#### SECOND YEAR

<b>First Semester</b>		<b>Units</b>
EST 58	Programmable Logic Controllers.....	3
WTT 2	Wind Generation and Electrical Circuits.....	2.5
		Total 5.5

<b>Second Semester</b>		<b>Units</b>
EST 55C	SCADA Systems .....	2
WTT 3	Wind Turbine Systems .....	2.5
		Total 4.5

Certificate Total 25.5

+ Pending State Chancellor’s Office approval.

# COURSE DESCRIPTIONS

*Changes to Pages 170-303*

## Course Classification System

### ***New courses***

Auto Collision Repair CTC 371	Fund of Weld Tech & Working Sheet Metal	<i>effective Fall 2009</i>
Auto Collision Repair CTC 372	Body Work Technology	<i>effective Fall 2009</i>
Auto Collision Repair CTC 373	Automotive Refinishing Technology	<i>effective Fall 2009</i>
Automotive Technology 287	Street Rod Technology	<i>effective Spring 2009</i>
Business & Technology 280	Basic Office Procedures	<i>effective Spring 2009</i>
Development Services 377	Transition to Independent Living and Education	<i>effective Fall 2009</i>
Electrical Sys Technology 271	Electrical Line/Utility Worker	<i>effective Spring 2009</i>
Industrial Training CTC 372	Warehouse and Distribution Careers	<i>effective Fall 2009</i>
Registered Nursing 202	Success Strategies for RN Students	<i>effective Spring 2009</i>

### ***Revised courses***

Automotive Technology 261A to 161A		<i>effective Fall 2009</i>
Automotive Technology 261B to 161B		<i>effective Fall 2009</i>
Automotive Technology 261C to 161C		<i>effective Fall 2009</i>
Clerical Training CTC 370 to Business & Technology 370		<i>effective Fall 2009</i>
Computer Information Technology 237 to 46		<i>effective Fall 2009</i>
Computer Information Technology 238 to 48		<i>effective Fall 2009</i>
Computer Information Technology 239 to 49		<i>effective Fall 2009</i>
Developmental Services 281	Professional Preparation for Students with Disabilities	<i>effective Spring 2009</i>

### ***Deleted courses***

Administration of Justice 200	Interview and Interrogation Techniques	<i>effective Fall 2009</i>
Administration of Justice 201	Explosives Recognition and Response	<i>effective Spring 2009</i>
Administration of Justice 202	Ethical Dilemmas in Public Safety Agencies	<i>effective Spring 2009</i>
Administration of Justice 203	Customer Service Training for Law Enforcement	<i>effective Spring 2009</i>
Administration of Justice 205	Search Warrant Execution	<i>effective Spring 2009</i>
Administration of Justice 206	Drug Influence Update	<i>effective Fall 2009</i>
Administration of Justice 207	Survival Spanish for Law Enforcement	<i>effective Fall 2009</i>
Administration of Justice 208	Tactical Communication	<i>effective Fall 2009</i>
Administration of Justice 209	Tactical Carbine Instructor	<i>effective Fall 2009</i>
Administration of Justice 210	Firearms/Tactical Handgun, Advanced	<i>effective Fall 2009</i>
Administration of Justice 212	Tactical Shotgun Instructor	<i>effective Fall 2009</i>
Administration of Justice 213	Firearms/Submachine Gun Instructor	<i>effective Fall 2009</i>
Administration of Justice 214	SWAT Training	<i>effective Spring 2009</i>
Administration of Justice 215	K-9 Handler Update Course	<i>effective Spring 2009</i>
Administration of Justice 216	Criminal Investigation	<i>effective Spring 2009</i>
Administration of Justice 218	Interview and Interrogation Advanced	<i>effective Fall 2009</i>
Administration of Justice 230	Force Option Simulator	<i>effective Fall 2009</i>
Administration of Justice 231	Driver Awareness	<i>effective Fall 2009</i>
Administration of Justice 232	Police Driving Simulator	<i>effective Fall 2009</i>
Administration of Justice 275	Advanced Officer Training	<i>effective Spring 2009</i>
Administration of Justice 277	Community Service Officer	<i>effective Spring 2009</i>
Administration of Justice 282	PC 832 & Expandable Baton (Intensive Format)	<i>effective Spring 2009</i>
Administration of Justice 292	PR-24 Baton Instructor Course	<i>effective Spring 2009</i>
Administration of Justice 294	Officer Safety	<i>effective Spring 2009</i>
Administration of Justice 296	Homicide Investigation	<i>effective Spring 2009</i>
Administration of Justice 297	Baton and Defense Tactics Seminar	<i>effective Spring 2009</i>
Developmental Services 265	Individualized Instructional Problems	<i>effective Spring 2009</i>
Developmental Services 280	SUCCESS College, Careers, Employment, Support	<i>effective Spring 2009</i>
Computer Info Technology 277	Accelerated Excel	<i>effective Fall 2009</i>

## SCCCD Intra-District Articulated Courses, Common Courses, and In-Lieu Courses

This is a list of courses that Fresno City College and Reedley College (which includes the North Centers--Clovis, Madera, Oakhurst and Willow International) have agreed to articulate with one another.

Note: Before registering for courses you want to use for transfer (for use in CSU-GE, IGETC or to meet a major requirement at a university), you must verify that the course is listed on Fresno City College's or Reedley College's CSU GE or IGETC pattern or articulation list. Do not ask a friend! Check with the lists provided by Fresno City College, Reedley College and the North Centers--or see the Fresno City College or Reedley College catalogs.

### FRESNO CITY COLLEGE

<u>Course</u>	<u>Title</u>
ACCTG 4A	Financial Accounting
ACCTG 4B	Managerial Accounting
ACCTG 19	Work Experience (Cooperative), Occupational*
ANTHRO 1	Biological Anthropology
ANTHRO 2	Cultural Anthropology
ANTHRO 3	Intro to Archaeology & Prehistory
ART 2	Art Appreciation
ART 5	Art History 1
ART 6	Art History 2
ART 6H	Honors Art History 2
ART 7	Beginning Drawing
ART 9	Beginning Painting: Oil/Acrylic
ART 10	Beginning Ceramics
ART 13	Beginning Watercolor Painting
ART 17	Intermediate Drawing
ART 19	Intermediate Painting: Oil/Acrylic
ART 20	Intermediate Ceramics
ART 23	Intermediate Watercolor Painting
ASL 1	Beginning American Sign Language
ASL 2	High Beginning American Sign Language
ASL 3	Intermediate American Sign Language
ASL 4	High Inter American Sign Language
ASTRO 10	Basic Astronomy
AUTOT 9	Automotive Essentials
BA 5	Business Communications
BA 10	Introduction to Business
BA 11	Introduction to Hospitality Management
BA 18	Business and the Legal Environment
BA 19	Work Experience (Cooperative), Occupational
BA 27	Students in Free Enterprise SIFE/CEO**
BA 33	Human Relations in Business
BA 34	Fundamentals of Investing
BA 38	Operation of the Small Business
BA 40	Supervision and Leadership
BA 52	Introduction to Entrepreneurship**
BA 55	Introduction to Logistics
BIOL 1	Principles of Biology
BIOL 3	Introduction to Life Science
BIOL 4	Principles of Zoology
BIOL 5	Human Biology
BIOL 6	Principles of Botany
BIOL 11A	Biology for Science Majors I *****
BIOL 11AH	Honors Biology for Science Majors I *****
BIOL 11B	Biology for Science Majors II *****
BIOL 20	Human Anatomy
BIOL 22	Human Physiology
BIOL 31	Microbiology

### REEDLEY COLLEGE

<u>Course</u>	<u>Title</u>
ACCTG 1A	Principles of Accounting
ACCTG 1B	Principles of Accounting
ACCTG 19V	Cooperative Work Experience, Accounting*
ANTHRO 1	Biological Anthropology
ANTHRO 2	Cultural Anthropology
ANTHRO 3	Intro to Archaeology & Prehistory
ART 2	Art Appreciation
ART 5	Art History 1
ART 6	Art History 2
ART 6H	Honors Art History 2
ART 7	Beginning Drawing
ART 9	Beginning Painting: Oil/Acrylic
ART 10	Beginning Ceramics
ART 13	Beginning Watercolor Painting
ART 17	Intermediate Drawing
ART 19	Intermediate Painting: Oil/Acrylic
ART 20	Intermediate Ceramics
ART 23	Intermediate Watercolor Painting
ASL 1	Beginning American Sign Language
ASL 2	High Beginning American Sign Language
ASL 3	Intermediate American Sign Language
ASL 4	High Inter American Sign Language
SCI 3	Introduction to Astronomy
AUTOT 9	Automotive Essentials
BA 5	Business Communications
BA 10	Introduction to Business
BA 12	Introduction to Hospitality
BA 18	Business and the Legal Environment
BA 19V	Cooperative Work Experience, Business
BA 27	Students in Free Enterprise (SIFE)
BA 33	Human Relations in Business
BA 34	Fundamentals of Investing
BA 38	Operation of the Small Business
BA 15	Introduction to Management
BA 52	Introduction to Entrepreneurship**
BA 55	Introduction to Logistics
BIOL 1	Principles of Biology
BIOL 3	Introduction to Life Science
BIOL 4	Principles of Zoology
BIOL 5	Human Biology
BIOL 6	Principles of Botany
BIOL 11A	Biology for Science Majors I *****
BIOL 11A	Biology for Science Majors I *****
BIOL 11B	Biology for Science Majors II *****
BIOL 20	Human Anatomy
BIOL 22	Human Physiology
BIOL 31	Microbiology

BT 4	Ten-Key Calculation	BA 46	Calculator Applications
BT 5	Business Communications	BA 5	Business Communications
BT 19	Work Experience (Cooperative), Occupational*	OT 19V	Cooperative Work Experience, Office Tech*
CHDEV 3	Early Childhood Curriculum	CHDEV 33A	ECC: Art/Drama/Music
CHDEV 5	Parent Education	CHDEV 5	Parent Education
CHDEV 6	Infant-Child Health & Safety	CHDEV 6	Infant-Child Health & Safety
CHDEV 8A	School Age Child: Growth & Develop	CHDEV 8A	Programs for School Age Child Care
CHDEV 8B	Programs for School Age Child Care	CHDEV 8B	Programs for School Age Child Care
CHDEV 11	The Young Child with Special Needs	CHDEV 35	Exceptional Children
CHDEV/PSY 12	Child Abuse	CHDEV 12	Child Abuse
CHDEV 15	Diversity Issues in Early Care & Ed Programs	CHDEV 15	Diversity Issues in Early Care & Ed Program
CHDEV 16	Intro to Early Intervention	CHDEV 32	Intro to Early Intervention (3-unit course)
CHDEV 17A	Infant Development – Birth to Age Three	CHDEV 7	Infant-Toddler Development and Care
CHDEV 17B	Advanced Infant Toddler Development & Care	CHDEV 7A	Advanced Infant Toddler Develop & Care
CHDEV 30	Child, Family and Community	CHDEV 30	Child, Family and Community
CHDEV 37A	Early Childhood Prog & Practices	CHDEV 37A	Early Childhood Prog & Practices
CHDEV 37B	Early Childhood Prog & Practices	CHDEV 37B	Early Childhood Prog & Practices
CHDEV/PSY 38	Lifespan Development	CHDEV/PSY 38	Lifespan Development
CHDEV/PSY 39	Child Development	CHDEV 39	Child Development
CHDEV 40A	Admin of Early Childhood Programs	CHDEV 40A	Admin of Early Childhood Programs
CHDEV 40B	Adv Admin of Early Childhood Programs	CHDEV 40B	Adv Admin of Early Childhood Programs
CHDEV 42	Child Nutrition	FN 42	Child Nutrition*
CHDEV 45	Adult Supervision in Early ECE Classrooms	CHDEV 45	Supervision of Adults in ECE Classrooms
CHDEV 151	Introduction to Family Child Care	CHDEV 151	Introduction to Family Child Care
CHDEV 152	Quality Program in Family Child Care	CHDEV 152	Quality Programs in Family Child Care
CHEM 1A	General Chemistry	CHEM 1A	General Chemistry
CHEM 1B	General Chemistry & Qual Analysis	CHEM 1B	General Chemistry & Qual Analysis
CHEM 3A	Introductory General Chemistry	CHEM 3A	Introductory General Chemistry
CHEM 3B	Intro Organic & Biological Chemistry	CHEM 3B	Intro Organic & Biological Chemistry
CHEM 8A	Elementary Organic Chemistry	CHEM 8	Elementary Organic Chemistry
CHEM 28A	Organic Chemistry I ***	CHEM 28A	Organic Chemistry ***
CHEM 28B	Organic Chemistry II ***	CHEM 28B	Organic Chemistry ***
CHEM 29A	Organic Chemistry Laboratory I ***	CHEM 29A	Organic Chemistry Laboratory ***
CHEM 29B	Organic Chemistry Laboratory II ***	CHEM 29B	Organic Chemistry Laboratory ***
CIT 12	Computer Literacy	IS 12	Computer Literacy
CIT 15	Computer Concepts	IS 15	Computer Concepts
CIT 19	Work Experience (Cooperative), Occupational	IS 19V	Cooperative Work Experience, Info Sys
CIT 23	Spreadsheet Fundamentals	IS 18	Spreadsheet Fundamentals
CIT 60	Beginning Visual Basic	IS 47	Visual Basic
CIT 63	Beginning Java Programming	IS 33	Beginning Java Programming
CIT 202	Introduction to Online Learning	IS 202	Introduction to Online Learning
CLS 21	Chicano Literature	ENGL 49	Latino & Chicano Literature
COMM 1	Introduction to Public Speaking *****	COMM 1	Introduction to Public Speaking *****
COMM 2	Interpersonal Communications *****	COMM 2	Interpersonal Communications *****
COMM 4	Persuasion *****	COMM 4	Persuasion *****
COMM 8	Group Communication *****	COMM 8	Group Communication *****
COMM/TA 12	Fundamentals of Interpretation *****	COMM 12	Fundamentals of Interpretation *****
COMM 25	Argumentation *****	COMM 25	Argumentation*****
COUN 53	College and Life Management	COUN 53	College and Life Management
COUN 147AB	College Study Skills ****	COUN 47	Learning Strategies ****
CRIM 1	Introduction to Criminology	CRIM 1	Introduction to Criminology
CRIM 3	Legal Aspects of Evidence	CRIM 3	Legal Aspects of Evidence
CRIM 4	Princ & Proce of the Justice System	CRIM 4	Princ & Proce of the Justice System
CRIM 5	Community Relations	CRIM 5	Community Relations
CRIM 6	Concepts of Criminal Law	CRIM 6A	Criminal Law
CRIM 7	Concepts of Enforcement Services	CRIM 7A	Police Operations & Procedures
CRIM 8	Criminal Investigation	CRIM 8	Criminal Investigation
CRIM 11	Juvenile Delinquency	CRIM 11	Juvenile Delinquency
CRIM 12	Criminal Justice Communications	CRIM 12	Criminal Justice Communications
CRIM 19	Work Experience (Cooperative), Occupational	CRIM 19V	Cooperative Work Experience, Criminal Just
CRIM 20	Introduction to Corrections	CRIM 20	Introduction to Corrections
CSCI 26	Discrete Mathematics for Computer Science	CSCI 26	Discrete Mathematics for Computer Science
CSCI 40	Programming Concepts & Methodology I	ENGR 40	Programming for Sci & Engin
CSCI 40	Programming Concepts & Methodology I	CSCI 40	Programming Concepts & Methodology I



CSCI 41	Programming Concepts & Methodology II	CSCI 41	Programming Concepts & Methodology II
DEVSER 250	Workability Assessment and Career Awareness	DEVSER 250	Workability Assessment and Career Aware
DEVSER 251	Workability Preparation and Job Placement	DEVSER 251	Workability Preparation and Job Placement
DEVSER 252	Workability strategies and Job Maintenance	DEVSER 252	Workability strategies and Job Maintenance
DEVSER 255	Workability Experience	DEVSER 255	Workability Experience
DEVSER 262	Group Interaction for Students w/Disabilities	DEVSER 262	Group Interaction for Students w/Disabilities
DEVSER 264	Transition to College for Students w/Disabilities	DEVSER 240	Trans to College for Students w/Disabilities
DEVSER 272	Consumer Skills	DEVSER 272	Consumer Skills
DEVSER 273	Independent Living Skills for DSP&S Students	DEVSER 273	Independent Living Skills for DSP&S Student
DEVSER 275	Horticulture Skills I	DEVSER 275	Horticulture Skills I
DEVSER 276	Horticulture Skills II**	DEVSER 276	Horticulture Skills II**
DEVSER 277	Adapted Computer Literacy**	DEVSER 277	Adapted Computer Literacy**
DS 23	Statistical Analysis	STAT 7	Elementary Statistics
DS 117	Business Mathematics	DS 117	Business Mathematics
ECON 1A	Intro to Macroeconomics	ECON 1A	Intro to Macroeconomics
ECON 1B	Intro to Microeconomics	ECON 1B	Intro to Microeconomics
EDUC 30	Survey of Education	EDUC 10	Introduction to Teaching
ENGL 1A	Reading and Composition	ENGL 1A	Reading and Composition
ENGL 1AH	Honors Reading and Composition	ENGL 1AH	Honors Reading and Composition
ENGL 1B	Intro to the Study of Literature	ENGL 1B	Intro to the Study of Literature
ENGL 1BH	Honors Intro to the Study of Literature	ENGL 1BH	Honors Intro to the Study of Literature
ENGL 3	Critical Reading and Writing	ENGL 3	Critical Reading and Writing
ENGL 3H	Honors Critical Reading and Writing	ENGL 3H	Honors Critical Reading and Writing
ENGL 15A	Creative Writing: Poetry	ENGL 15A	Creative Writing: Poetry
ENGL 15B	Creative Writing: Fiction	ENGL 15B	Creative Writing: Fiction
ENGL 44A	World Literature to the Renaissance	ENGL 44A	World Literature to the Renaissance
ENGL 44B	World Literature since the Renaissance	ENGL 44B	World Literature since the Renaissance
ENGL 46A	English Literature to 1800	ENGL 46A	English Literature to 1800
ENGL 46B	English Literature from 1800 to Present	ENGL 46B	English Literature from 1800 to Present
ENGL 47	Introduction to Shakespeare	ENGL 47	Shakespeare
ENGL 105	Grammar and Punctuation	ENGL 105	Grammar and Punctuation
ENGL 125	Writing Skills for College	ENGL 125	Writing Skills for College
ENGL 126	Reading Skills for College	ENGL 126	Reading Skills for College
ENGL 250	Basic Writing	ENGL 250	Basic Writing
ENGL 252	Writing Improvement	ENGL 252	Writing Improvement
ENGL 260	Basic Reading	ENGL 260	Basic Reading
ENGL 262	Reading Improvement	ENGL 262	Reading Improvement
ENGR 2	Graphics	ENGR 2	Graphics
ENGR 4	Engineering Materials	ENGR 4	Engineering Materials
ENGR 6	Circuits with Lab	ENGR 6	Circuits with Lab
ENGR 8	Statics	ENGR 8	Statics
ENGR 10	Introduction to Engineering	ENGR 10	Introduction to Engineering
EST 61	Networking Essentials	IS 49A	LAN Fundamentals – Cisco I
EST 62	Router Theory & Technology	IS 49B	Router Theory & Technology – Cisco II Tech
EST 63	Adv. Routing & Switching	IS 49C	Ad. Routing & Switching – Cisco III Switching
EST 64	Adv. Networking & Management	IS 49D	Adv. Networking & Mgmt – Cisco IV Mgmt
FILM 1	Introduction to Film Studies	FILM 1	Introduction to Film Studies
FILM 2B	History of Cinema 1960 to Present	FILM 2B	History of Cinema 1960 to Present
FILM 5	Digital Filmmaking	FILM 5	Digital Filmmaking
FN 35	Nutrition and Health	FN 35	Nutrition and Health
FN 40	Nutrition	FN 40	Nutrition
FN/CHDEV 42	Child Nutrition	FN 42	Child Nutrition
FRENCH 1	Beginning French	FRENCH 1	Beginning French
FRENCH 2	High Beginning French	FRENCH 2	High Beginning French
FRENCH 3	Intermediate French	FRENCH 3	Intermediate French
FRENCH 4	High Intermediate French	FRENCH 4	High Intermediate French
FSM 35	Food Services, Sanitation, Safety and Equipment	FN 20	Sanitation, Safety, & Equip for Food Serv
GEOG 4A	World Geography	GEOG 4A	World Geography
GEOG 4B	World Geography	GEOG 4B	World Geography
GEOL 1	Physical Geology	GEOL 1	Physical Geology
GEOL 2	Historical Geology	GEOL 2	Historical Geology
GEOL 9	Introduction to Earth Science	GEOL 9	Introduction to Earth Science
GERMAN 1	Beginning German	GERMAN 1	Beginning German
GERMAN 2	High Beginning German	GERMAN 2	High Beginning German

GERMAN 3	Intermediate German	GERMAN 3	Intermediate German
GERMAN 4	High Intermediate German	GERMAN 4	High Intermediate German
HEC 7	Interior Design	FM 30	Interior Design
HIST 1	Western Civilization to 1648	HIST 1	Western Civilization to 1648
HIST 2	Western Civilization since 1648	HIST 2	Western Civilization since 1648
HIST 11	History of the United States to 1877	HIST 11	History of the United States to 1877
HIST 12	History of the United States since 1877	HIST 12	History of the United States since 1877
HIST 20	Comparative World Civilizations to 1600	HIST 20	Comparative World Civilizations to 1600
HIST 22	History of American Women***	HIST 22	History of American Women***
HLTH 1	Contemporary Health Issues	HLTH 1	Contemporary Health Issues
HLTH 2	First Aid and Safety	HLTH 2	First Aid and Safety
HS 19A	Work Experience (Cooperative), Occupational*	HS 19V	Cooperative Work Experience, Human Serv*
HS 20	Introduction to Social Work	HS 20	Introduction to Social Work
HS 24	Fundamentals of Interviewing and Counseling	HS 24	Fundamentals of Interviewing & Counseling
HS 30	Group and Community Social Services	HS 30	Group and Community Social Services
JOURN 1	Introduction to Mass Communications	JOURN 1	Introduction to Mass Communications
JOURN 3	Newswriting	JOURN 3	Newswriting
JOURN 19	Work Experience (Cooperative), Occupational ****	JOURN 19V	Coop Work Experience, Journalism ****
LING 10	Introduction to Language	LING 10	Introduction to Language
LING 11	Intro to Language for Educators	LING 11	Intro to Language
MATH 4A	Trigonometry	MATH 4A	Trigonometry
MATH 4B	Precalculus	MATH 4B	Precalculus
MATH 5A	Math Analysis I	MATH 5A	Math Analysis I
MATH 5B	Math Analysis II	MATH 5B	Math Analysis II
MATH 6	Math Analysis III	MATH 6	Math Analysis III
MATH 7	Introduction to Differential Equations	MATH 7	Introduction to Differential Equations
MATH 10A	Structure and Concepts in Mathematics I	MATH 10A	Structure and Concepts in Mathematics I
MATH 10B	Structure and Concepts in Mathematics II	MATH 10B	Structure and Concepts in Mathematics II
MATH 11	Elementary Statistics	MATH 11/STAT 7	Elementary Statistics
MATH 21/DS 21	Finite Mathematics	MATH 21	Finite Mathematics
MATH 26	Elementary Linear Algebra	MATH 26	Elementary Linear Algebra
MATH 45	Contemporary Mathematics	MATH 45	Contemporary Mathematics
MATH 101	Elementary Algebra	MATH 101	Elementary Algebra
MATH 102	Plane Geometry	MATH 102	Plane Geometry
MATH 103	Intermediate Algebra	MATH 103	Intermediate Algebra
MATH 250	College Arithmetic	MATH 250	College Arithmetic
MATH 255	Pre-Algebra	MATH 256	Algebra Topics
MATH 260B	Arithmetic Review: Fractions	MATH 260B	Arithmetic Review: Fractions
MKTG 10	Principles of Marketing	MKTG 10	Marketing
MKTG 11	Salesmanship	MKTG 11	Salesmanship
MKTG 12	Advertising and Promotion	MKTG 12	Advertising and Promotion
MKTG 14	Retailing	MKTG 14	Retailing
MUS 1A	Music Theory I	MUS1A	Music Theory I
MUS 1B	Music Theory II	MUS 1B	Music Theory II
MUS 2A	Music Theory III	MUS 2A	Music Theory III
MUS 2B	Music Theory IV	MUS 2B	Music Theory IV
MUS 3	Music Fundamentals	MUS 3	Music Fundamentals
MUS 7A	Ear Training: Level I	MUS 7A	Ear Training: Level I
MUS 7B	Ear Training: Level II	MUS 7B	Ear Training: Level II
MUS 12	Music Appreciation	MUS 12	Music Appreciation
MUS 16	Jazz History and Appreciation	MUS 16	Jazz History and Appreciation
MUS 18	Basic Conducting and Score Reading	MUS 18	Basic Conducting and Score Reading
MUS 20	Beginning Piano: Level I	MUS 20	Beginning Piano: Level I
MUS 21	Beginning Piano: Level II	MUS 21	Beginning Piano: Level II
MUS 22	Intermediate/Advanced Piano	MUS 22	Intermediate/Advanced Piano
MUS 24	Elementary Voice: Level I	MUS 24	Elementary Voice: Level I
MUS 27	Beginning Guitar: Level I	MUS 27	Beginning Guitar: Level I
MUS 28	Beginning Guitar: Level II	MUS 28	Basic Guitar: Level II
MUS 30	College Choir	MUS 31	Concert Choir
MUS 40	Concert Band	MUS 40	Concert Band
MUS 41	Jazz Ensembles	MUS 41	Jazz Ensembles
NATSCI 1A	Integrated Sci: Physics & Chemistry	SCI 1A	Introductory Chemical & Physical Science
PE 4	Badminton	PE 4	Badminton
PE 5	Basketball	PE 5	Basketball

PE 6	Fitness and Health	PE 6	Fitness and Health
PE 7	Golf	PE 7	Golf
PE 12	Swimming	PE 12	Swimming
PE 13	Tennis	PE 13	Tennis
PE 14	Volleyball	PE 14	Volleyball
PE 20	Athletic Training	PE 20	Athletic Training
PE 30A	Theory of Baseball	PE 30A	Theory of Baseball
PE 30B	Competitive Baseball	PE 30B	Competitive Baseball
PE 30C	Off-Season Conditioning for Baseball	PE 30C	Off-Season Conditioning for Baseball
PE 31A	Theory of Basketball	PE 31A	Theory of Basketball
PE 31B	Competitive Basketball	PE 31B	Competitive Basketball
PE 31C	Off-Season Conditioning for Basketball	PE 31C	Off-Season Conditioning for Basketball
PE 33A	Theory of Football	PE 33A	Theory of Football
PE 33B	Competitive Football	PE 33B	Competitive Football
PE 33C	Off-Season Conditioning for Football	PE 33C	Off-Season Conditioning for Football
PE 34A	Theory of Golf	PE 34A	Theory of Golf
PE 34B	Competitive Golf	PE 34B	Competitive Golf
PE 34C	Off-Season Conditioning for Golf	PE 34C	Off-Season Conditioning for Golf
PE 35B	Pep and Cheer	PE 35B	Pep and Cheer
PE 37A	Theory of Softball	PE 37A	Theory of Softball
PE 37B	Competitive Softball	PE 37B	Competitive Softball
PE 37C	Off-Season Conditioning for Softball	PE 37C	Off-Season Conditioning for Softball
PE 38A	Theory of Tennis	PE 38A	Theory of Tennis
PE 38B	Competitive Tennis	PE 38B	Competitive Tennis
PE 38C	Off-Season Conditioning for Tennis	PE 38C	Off-Season Conditioning for Tennis
PE 39A	Theory of Track & Field	PE 39A	Theory of Track & Field
PE 39B	Competitive Track & Field	PE 39B	Competitive Track & Field
PE 39C	Off-Season Conditioning for Track & Field	PE 39C	Off-Season Conditioning for Track & Field
PE 40A	Theory of Volleyball	PE 40A	Theory of Volleyball
PE 40B	Competitive Volleyball	PE 40B	Competitive Volleyball
PE 40C	Off-Season Conditioning for Volleyball	PE 40C	Off-Season Conditioning for Volleyball
PE 62	Introduction to Kinesiology	PE 22	Introduction to Physical Education
PHIL 1A	Theories of Knowledge and Reality	PHIL 1	Introduction to Philosophy
PHIL 1C	Ethics	PHIL 1C	Ethics
PHIL 1C	Ethics	PHIL 1CH	Honors Ethics
PHIL 1D	World Religions	PHIL 1D	World Religions
PHIL 4	Critical Reasoning	PHIL 4	Critical Reasoning
PHIL 6	Introduction to Logic	PHIL 6	Introduction to Logic
PHOTO 5	Introduction to Photography	PHOTO 1	Basics of Digital Photography
PHYS 2A	General Physics 1	PHYS 2A	General Physics 1
PHYS 2B	General Physics 2	PHYS 2B	General Physics 2
PHYS 4A	Physics for Scientists & Engineers	PHYS 4A	Physics for Scientists & Engineers
PHYS 4B	Physics for Scientists & Engineers	PHYS 4B	Physics for Scientists & Engineers
PHYS 4C	Physics for Scientists & Engineers	PHYS 4C	Physics for Scientists & Engineers
POLSCI 2	American Government	POLSCI 2	American Government
POLSCI 2H	Honors American Government	POLSCI 2H	Honors American Government
POLSCI 5	Comparative Government	POLSCI 5	Comparative Government
PSY 2	General Psychology	PSY 2	General Psychology
PSY 2H	Honors General Psychology	PSY 2H	Honors General Psychology
PSY 5	Social Psychology	PSY 5	Social Psychology
PSY/CHDEV 12	Child Abuse	CHDEV 12	Child Abuse
PSY 16	Abnormal Psychology	PSY 16	Abnormal Psychology
PSY 25	Human Sexuality	PSY 25	Human Sexuality
PSY/CHDEV 38	Lifespan Development	PSY/CHDEV 38	Lifespan Development
RE 40	Real Estate Principles	RE 40	Real Estate Principles
RE 41	Real Estate Practice	RE 41	Real Estate Practice
RE 42	Legal Aspects of Real Estate	RE 42	Legal Aspects of Real Estate
RE 43	Real Estate Appraisal I	RE 43	Real Estate Appraisal
RN 33	Transcultural Health Care	RN 78	Found of Multicultural Nursing Care
SOC 1A	Introduction to Sociology	SOC 1A	Introduction to Sociology
SOC 1AH	Honor Introduction to Sociology***	SOC 1A	Introduction to Sociology***
SOC 2	American Minority Groups	SOC 2	American Minority Groups
SOC 32	Courtship, Marriage, Divorce	SOC 32	Courtship, Marriage, Divorce
SPAN 1	Beginning Spanish	SPAN 1	Beginning Spanish

SPAN 2	High Beginning Spanish	SPAN 2	High Beginning Spanish
SPAN 3	Intermediate Spanish	SPAN 3	Intermediate Spanish
SPAN 3NS	Spanish for Spanish Speakers	SPAN 3NS	Spanish for Spanish Speakers
SPAN 4	High Intermediate Spanish	SPAN 4	High Intermediate Spanish
SPAN 4NS	Spanish for Spanish Speakers	SPAN 4NS	Spanish for Spanish Speakers
WKEXP 19	Work Experience (Cooperative), General	COTR 19G	Cooperative Work Experience Education

\* **Correction**  
 \*\***Effective Spring 2009**  
 \*\*\***Effective Fall 2009**  
 \*\*\*\***Effective Spring 2010**  
 \*\*\*\*\***Effective Fall 2010**

## Courses

### Accounting (ACCTG)

*Change: corequisite, description*

*effective Spring 2009*

**19 Work Experience (Cooperative), Occupational, 1-8 units, (Repeats = 2)**

**Corequisite:** Fall and Spring Semesters: Must be enrolled in at least on other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to accounting. Collaborative learning objectives established specific to accounting. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester, 16 units total. May be repeated for not more than 16 units total. (A, CSU)

*Change: units, hours*

*effective Spring 2010*

**34 Accounting Spreadsheets, 2 units, 2 lecture hours, 1 lab hour**

*Change: units, hours*

*effective Spring 2010*

**55 Accounting Methods, 1.5 units, 1.5 lecture hours**

*Change: units, hours*

*effective Spring 2010*

**270 Accounting Math Skills, 1.5. units, 1.5 lecture hours**

### Administration of Justice (AJ)

*Course deleted*

*effective Fall 2009*

**200 Interview and Interrogation Techniques, .5-1 unit, 17-25.5 lecture hours, (1 week), (Pass/No Pass), (Repeats = 3), (Formerly Administration of Justice 100)**

*Course deleted*

*effective Spring 2009*

**201 Explosive Recognition and Response, 1 unit, 26 lecture hours, 16 lab hours, (1 week), (Pass/No Pass), (Repeats = 3), (Formerly Administration of Justice 101)**

*Course deleted*

*effective Spring 2009*

**202 Ethical Dilemmas in Public Safety Agencies, .2 units, 8.5 lecture hours, (1 week), (Pass/No Pass), (Repeats = 3), (Formerly Administration of Justice 102)**

*Course deleted*

*effective Spring 2009*

**203 Customer Service Training for Law Enforcement, .2 units, 8.5 lecture hours, (1 week), (Pass/No Pass), (Repeats = 3), (Formerly Administration of Justice 103)**

*Course deleted*

*effective Spring 2009*

**205 Search Warrant Execution, .2 units, 6.5 lecture hours, (1 week), (Pass/No Pass), (Repeats = 3), (Formerly Administration of Justice 105)**

*Course deleted*

*effective Fall 2009*

**206 Drug Influence Update, .5 unit, 17 lecture hours, (1 week), (Pass/No Pass), (Repeats = 3), (Formerly Administration of Justice 106)**

*Course deleted*

*effective Fall 2009*

**207 Survival Spanish for Law Enforcement, .5 unit, 25.5 lecture hours, (12 weeks), (Pass/No Pass), (Repeats = 3), (Formerly Administration of Justice 107)**

*Course deleted*

*effective Fall 2009*

**208 Tactical Communication, .5 units, 25.5 lecture hours, (1 week), (Pass/No Pass), (Repeats = 3), (Formerly Administration of Justice 108)**

*Course deleted*

*effective Fall 2009*

**209 Tactical Carbine Instructor, 1 unit, 4 lecture hours, 29.5 lab hours, (1 week), (Pass/No Pass), (Unlimited repeats), (Formerly Administration of Justice 109)**

*Course deleted* *effective Fall 2009*  
 210 Firearms/Tactical Handgun, Advanced, 1 unit, 4 lecture hours, 21.5 lab hours, (1 week), (Pass/No Pass), (Unlimited repeats), (Formerly Administration of Justice 110)

*Course deleted* *effective Fall 2009*  
 212 Tactical Shotgun Instructor, 1 unit, 8 lecture hours, 25.5 lab hours, (1 week), (Pass/No Pass), (Unlimited repeats), (Formerly Administration of Justice 112)

*Course deleted* *effective Fall 2009*  
 213 Firearms/Submachine Gun Instructor, 1 unit, 4 lecture hours, 29.5 Lab hours, (1 week), (Pass/No Pass), (Unlimited repeats), (Formerly Administration of Justice 113)

*Course deleted* *effective Spring 2009*  
 214 SWAT Training, 1 unit, 10.6 lab hours, (5 weeks), (Pass/No Pass), (Unlimited repeats), (Formerly Administration of Justice 114)

*Course deleted* *effective Spring 2009*  
 215 K-9 Handler Update Course, .5 units, 8 lecture hours, 17.5 lab hours, (1 week), (Pass/No Pass), (Unlimited repeats), (Formerly Administration of Justice 115)

*Course deleted* *effective Spring 2009*  
 216 Criminal Investigation, 1 unit, 42 lecture hours, (1 week), (Pass/No Pass), (Unlimited Repeats), (Formerly Administration of Justice 116)

*Course deleted* *effective Fall 2009*  
 218 Interview and Interrogation Advanced, .5 units, 17 lecture hours, (1 week), (Pass/No Pass), (Unlimited repeats), (Formerly Administration of Justice 118)

*Course deleted* *effective Fall 2009*  
 230 Force Option Simulator, .1 unit, 2.1 lecture hours, 2.1 lab hours, (1 week), (Pass/No Pass), (Unlimited repeats)

*Course deleted* *effective Fall 2009*  
 231 Driver Awareness, .2 units, 2.2 lecture hours, 6.2 lab hours, (1 week), (Pass/No Pass), (Unlimited repeats)

*Course deleted* *effective Fall 2009*  
 232 Police Driving Simulator, .1 unit, 2.1 lecture hours, 2.1 lab hours, (1 week), (Pass/No Pass), (Unlimited repeats)

*New course* *effective Spring 2010*  
 270A Basic Police Academy Part 1, 10 units, 20.3 lecture hours, 8.8 lab hours, (19 weeks), (Pass/No Pass), (Repeats = 3)

**Prerequisite:** Possess a valid Class C California Drivers License. Proof of a Department of Justice criminal history clearance to possess a firearm (PC 13511.5) or be sponsored by a law enforcement agency.

Satisfies the required prerequisite for Administration of Justice 270B when taken in tandem without a time separation between courses (Administration of Justice 270A and 270B). Materials, health, and parking fees will be charged. Applicants must successfully complete: (1) POST Standardized Reading Comprehension and Writing Skills Test; (2) POST Physical Agility Test; and (3) Physical Exam, including an electrocardiogram (EKG) printout.

*New course* *effective Spring 2010*  
 270B Basic Police Academy – Part 2, 13 units, 18 lecture hours, 11.1 lab hours, (23 weeks), (Pass/No Pass), (Repeats = 3)

**Prerequisite:** Successful completion of Administration of Justice 270A when taken in tandem without a time separation between courses (Administration of Justice 270A and 270B).

Satisfies the requirement of the California Commission of Peace Officer Standards and Training (POST) for Basic Police Academy training mandatory for every full-time peace officer under Penal Code, Section 830.1. Health, parking and range fees will be charges.

**Change: title, units, hours, prerequisite, description** **effective Fall 2009**

**272 Regular Basic Course – Modular Format – Module III, 4 units, 9 lecture hours, 3.4 lab hours, (Repeats = 3)**

**Prerequisite:** Valid Class C California Drivers License. Proof of a Department of Justice criminal history clearance to possess a firearm (PC 13511.5) or be sponsored by a law enforcement agency.

Satisfies mandatory training requirements for Level III Reserve Peace Officer and is the mandatory prerequisite for the Administration of Justice 272 (Level II module). Must provide a handgun, ammo, and safety equipment associated with a firearms course.

**Change: Title, units, hours, weeks, prerequisite, description** **effective Fall 2009**

**273 Regular Basic Course – Modular Format – Module II, 5.5 units, 11.1 lecture hours, 6.1 lab hours, (17 weeks), (Repeats = 3)**

**Prerequisite:** Successful completion of Administration of Justice 272 (Module III). Current (within the last 3 years) in PC 832, Arrest and Firearms, training requirements. Proof of a Department of Justice criminal history clearance to possess a firearm (PC 13511.5). Passage of the POST – Constructed Comprehensive Module III End-of-Course Proficiency Test within the preceding 12 months.

Satisfies mandatory requirements for Level II Reserve Peace Officer and is the mandatory prerequisite for Administration of Justice 274 (Level I module).

**Change: title, units, hours, weeks, prerequisite, description** **effective Fall 2009**

**274 Regular Basic Course – Modular Format – Module I, 11 units, 18 lecture hours, 8.7 lab hours, (22 weeks), (Repeats = 3)**

**Prerequisite:** Successful completion of Administration of Justice 272 and 273 (Modules III and II). Current (within last 3 years) in PC 832, Arrest and Firearms, training requirements. Passage of the POST Constructed Comprehensive Module II End-of-Course Proficiency Test within the preceding 12 months. Successful completion of the POST Standardized Reading Comprehensive and Writing Skills Test and the POST Physical Agility Test. Proof of Department of Justice criminal history clearance to possess a firearm (PC 13511.5) Physical exam, including an electrocardiogram (EKG) printout. Or, be sponsored by a law enforcement agency.

Satisfies training requirements mandatory for every full-time peace officer under Penal Code section 30.6(a)(1) and 832.6(a)(1). Completion of all three modules satisfies the Regular Basic Course training requirement.

**Course deleted** **effective Spring 2009**

**275 Advanced Officer Academy, .5-1 unit, 25.5-42 lecture hours, (1 week), (Pass/No Pass), (Unlimited Repeats), (Formerly Administration of Justice 72 and 75)**

**Course deleted** **effective Spring 2009**

**277 Community Service Officer, 4-6 units, 27.3-42.5 lecture hours, (6 weeks), (Repeats = 3), (Formerly Administration of Justice 85 and 77)**

**Course deleted** **effective Spring 2009**

**282 PC 832 & Expandable Baton (Intensive Format), 1.5 units, 27 lecture hours, 10.8 lab hours, (2 weeks), (Pass/No Pass), (Repeats = 3)**

**Course deleted** **effective Spring 2009**

**292 PR-24 Baton Instruction Course, 1 unit, 12 lecture hours, 30 lab hours, (1 week), (Pass/No Pass), (Repeats = 3), (Formerly Administration of Justice 88 and 92)**

**Course deleted** **effective Spring 2009**

**294 Officer Safety, .5-1 unit, 9.5-18 lecture hours, 16-24 lab hours, (1 week), (Pass/No Pass), (Repeats = 3), (Formerly Administration of Justice 83 and 94)**

**Course deleted** **effective Spring 2009**

**296 Homicide Investigation, 1-2 units, 42-84 lecture hours, (2 weeks), (Pass/No Pass), (Repeats = 3), (Formerly Administration of Justice 82 and 96)**

**Course deleted** **effective Spring 2009**

**297 Baton and Defense Tactics Seminar, .2 units, 25.5-42 lecture hours, (1 week), (Pass/No Pass), (Repeats = 3), (Formerly Administration of Justice 76 and 97)**

## Aerospace Studies (AEROST)

### *Change: corequisite, description*

*effective Spring 2010*

#### **1A USAF Foundation, 1 unit, 1 lecture hour**

**Corequisite:** Aerospace Studies 3.

The Air Force in the contemporary world. Focuses on basic organizational structure and missions of Air Force organizations and an introduction to leadership and followership. Includes a basic study of Air Force communications and briefing skills. (A, CSU, UC)

### *Change: corequisite, description*

*effective Spring 2010*

#### **1B USAF Foundation, 1 unit, 1 lecture hour**

**Corequisite:** Aerospace Studies 3.

The Air Force in the contemporary world. Focuses more on leadership and followership than on the organizational structure and missions of Air Force organizations. Officership and professionalism are stressed; and includes a more in-depth study of Air Force communication skills. (A, CSU, UC)

### *Change: title, corequisite, description*

*effective Spring 2010*

#### **2A Evolution of Air and Space Power, 1 unit, 1 lecture hour**

**Corequisite:** Aerospace Studies 3

Detailed look at strategy, doctrine, and evolution of the art and science of air, space and cyberspace power until 1960; history, political science, and leadership studies; basic communication skills training and evaluation in terms of improving professional writing and speaking. (A, CSU, UC)

### *Change: title, corequisite, description*

*effective Spring 2010*

#### **2A Evolution of Air and Space Power, 1 unit, 1 lecture hour**

**Corequisite:** Aerospace Studies 3

Detailed look at strategy, doctrine, and evolution of the art and science of air, space and cyberspace power after 1960; history, political science, and leadership studies; basic communication skills training and evaluation in terms of improving professional writing and speaking. (A, CSU, UC)

### *Change: hours, corequisite*

*effective Spring 2010*

#### **3 Leadership Laboratory, 1 unit, 4 lab hours, (Pass/No Pass), (Repeats = 3)**

**Corequisite:** Aerospace 1A, or 1B, or 2A, or 2B. (Note: if a cadet has taken all 4 of the possible corequisite courses, they do not need to enroll in a corequisite course again. They can then take Aerospace 3 as a stand-alone course.)

### *Change: hours, corequisite*

*effective Spring 2010*

#### **5 Drill and Ceremony Fundamental, 1 unit, .5 lecture hours, .5 lab hours, (Repeats = 3)**

**Corequisite:** Aerospace 1A, or 1B, or 2A, or 2B. (Note: if a cadet has taken all 4 of the possible corequisite courses, they do not need to enroll in a corequisite course again. They can then take Aerospace 3 as a stand-alone course.)

## Air Conditioning (AC)

### *Change: corequisite, description*

*effective Spring 2009*

#### **19 Work Experience (Cooperative), Occupational, 1-8 units, (Repeats = 2)**

**Corequisite:** Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to air conditioning. Collaborative learning objectives established specific to air conditioning. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester, 16 units total. May be repeated for not more than 16 units total. (A, CSU)



## Anthropology (ANTHRO)

*Change: corequisite, description*

*effective Spring 2009*

**19 Work Experience (Cooperative), Occupational, 1-8 units, (Repeats = 2)**

**Corequisite:** Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to anthropology. Collaborative learning objectives established specific to anthropology... Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester, 16 units total. May be repeated for not more than 16 units total. (A, CSU)

## Applied Technology (AT)

*Change: hours*

*effective Fall 2009*

**120 Industrial Science, 3 units, 3 lecture hours, 1 lab hour, (Formerly Industrial Education 51)**

## Apprenticeship (APP)

*Change: corequisite, description*

**19 Work Experience (Cooperative), Occupational, 1-8 units, (Repeats = 2)**

**Corequisite:** Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to apprenticeship. Collaborative learning objectives established specific to apprenticeship... Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester, 16 units total. May be repeated for not more than 16 units total. (A, CSU)

## Architecture (ARCH)

*Correct title*

**44 Architecture Computer Rendering and Portfolio, 3 units, 2 lecture hours, 2 lab hours**

## Astronomy (ASTRO)

*Change: description*

*effective Fall 2009*

**10 Basic Astronomy, 3 units, 2 lecture hours, 2 lab hours, (generally evening)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 101 recommended.

The night sky from our local solar system to the most distant objects in the universe, including observational and theoretical methods. The history of astronomical discovery, current investigations, cosmology, solar system dynamics, life cycle of stars and galaxies, constellation lore, and the role of gravity on a local and cosmic scale. Optional field trips. (A, CSU-GE, UC, I)

## Automotive Collision Repair (ACRCTC)

*Course deleted*

*effective Fall 2009*

**370 Automotive Collision Repair and Paint, 5 lecture hours, 25 lab hours, (30 weeks), (900 total hours), (Repeats = 3), (Formerly Body-Fender VTC 70 and Automotive Collision Repair VTC 370)**

*New course*

*effective Fall 2009*

**371 Fundamentals of Welding Technology and Working Sheet Metal, 5 lecture hours, 25 lab hours, (10 weeks), (30 total hours), (Repeats = 3)**

**Prerequisite:** None.

Theory and practice in MIG welding, oxyacetylene welding, steel rod, brazing rod, plasma cutter, metal shrinking, work sheet metal, welded panel replacement, restoring corrosion protection, hand tool technology, shop safety and efficiency, job success and ASE certification.

**New course****effective Fall 2009****372 Body Work Technology, 5 lecture hours, 25 lab hours, (10 weeks), (300 total hours), (Repeats = 3)****Prerequisite:** None.

Collision repair introductions and career includes estimating repair costs, vehicle construction and power tool technology, service specification and measurements, using body filler, doing hood, bumper, fender, lid, door, roof, and glass service. Looking at restraint system operation, passenger compartment, body/frame measurement, and unibody/frame realignment.

**New course****effective Fall 2009****373 Automotive Refinishing Technology, 5 lecture hours, 25 lab hours, (10 weeks), (300 total hours), (Repeats = 3)****Prerequisite:** None.

Review of the following: compressed air technology, refinishing materials and fasteners, repairing plastics, refinishing equipment technology, vehicle surface preparation and masking, refinishing procedures, color matching and custom painting, and paint problems and final detailing.

**Automotive Technology (AUTOT)****Correct: description****19 Work Experience (Cooperative), Occupational, 1-8 units, (9 weeks), (Repeats = 2)**

**Corequisite:** Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to automotive technology. Collaborative learning objectives established specific to automotive technology. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester, 16 units total. May be repeated for not more than 16 units total. (A, CSU)

**Change: description****effective Fall 2009****58A Individualized Skills Training (IST) Chassis Systems II Laboratory, 1 unit, 8 lab hours, (9 weeks), (Repeats = 3)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 101 recommended.

Designed for students to complete assigned automobile manufacturers' training modules in Advanced Chassis Systems: Hands-On (HO), Computer-Based Training (CBT), Web-Based Training (WBT), and/or Video-Based Training (VBT) with instructor supervision. Provide the most current and up-to-date technology for students pursuing a career in Automotive Technology. Designed to accompany work experience in the trade. (A, CSU)

**Change: description****effective Fall 2009****58B Individualized Skills Training (IST) Engine/Propulsion Systems Laboratory, 1 unit, 8 lab hours, (9 weeks), (Repeats = 3)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 101 recommended.

Designed for students to complete assigned automobile manufacturers' training modules in Advanced Chassis Systems: Hands-On (HO), Computer-Based Training (CBT), Web-Based Training (WBT), and/or Video-Based Training (VBT) with instructor supervision. Provide the most current and up-to-date technology for students pursuing a career in Automotive Technology. Designed to accompany work experience in the trade. (A, CSU)

**Change: description****effective Fall 2009****58C Individualized Skills Training (IST) Power Train Systems Laboratory, 1 unit, 8 lab hours, (9 weeks), (Repeats = 3)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 101 recommended.

Designed for students to complete assigned automobile manufacturers' training modules in Power Train Systems: Hand-On (HO), Computer-Based Training (CBT), Web-Based Training (WBT), and/or Video-Based

Training (VBT) with instructor supervision. Provide the most current and up-to-date technology for students pursuing a career in Automotive Technology. Designed to accompany work experience in the trade. (A, CSU)

**Change: number, prerequisite** **effective Fall 2009**

**161A Basic Clean Air Car Course (BCACC), 3 units, 4.5 lecture hours, 4.5 lab hours, (9 weeks), (Repeats = 3), (Formerly Automotive Technology 61 and 61A and 261A)**

**Prerequisite:** Automotive Technology 52, and 53, or 261, or 10 semester units, 13 quarter units, or 180 hours of instruction at a NATEF certified and/or bureau-recognized college or trade school in the areas of electrical and engine performance. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 101 recommended.

**Change: number, title, prerequisite** **effective Fall 2009**

**161B Advanced Clean Air Car Course (ARACC), 1 unit, 3 lecture hours, 3 lab hours, (5 weeks), (Repeats = 3), (Formerly Automotive Technology 61B and 261B)**

**Prerequisite:** Automotive Technology 161A. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 101 recommended.

**Change: number, units, hours, prerequisite** **effective Fall 2009**

**161C BAR Update Training, 1 unit, 18 lecture hours, 6 lab hours, (2 weeks), (Repeats = 3), (Formerly Automotive Technology 261C)**

**Prerequisite:** Automotive Technology 161B. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 101 recommended.

**Change: prerequisite** **effective Fall 2009**

**261 Clean Air Car – Diagnosis and Repair, 3 units, 4.5 lecture hours, 4.5 lab hours, (9 weeks), (Repeats = 3), (Formerly Automotive Technology 61)**

**Prerequisite:** Automotive Technology 52 or 53 or 9 semester units, 13 quarter units, or 180 hours of instruction at a NATEF certified and/or bureau-recognized college or trade school in the areas of electrical and engine performance. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 101 recommended.

**Change: title, hours, prerequisite** **effective Fall 2009**

**262A (A6) Electrical/Electronic Training BAR/ASE (Alternative), 1 unit, 6 lecture hours, 2 lab hours, (3 weeks), (Repeats = 3), (Formerly Automotive Technology 62A)**

**Prerequisite:** Automotive Technology 53 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 101 recommended.

**Change: title, hours, prerequisite** **effective Fall 2009**

**262B (A8) Engine Performance Training BAR/ASE (Alternative), 1 unit, 6 lecture hours, 2 lab hours, (3 weeks), (Repeats = 3), (Formerly Automotive Technology 62B)**

**Prerequisite:** Automotive Technology 53 or equivalent.

**Change: title, hours, prerequisite** **effective Fall 2009**

**262C (L1) Advanced Engine Performance Training BAR/ASE (Alternative), 1 unit, 6 lecture hours, 2 lab hours, (4 weeks), (Repeats = 3), (Formerly Automotive Technology 62C)**

**Prerequisite:** Automotive Technology 52 and 53 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 101 recommended.

**Change: title, description** **effective Fall 2009**

**281A Automotive Power Trains I, 3 units, 3 lecture hours, (Repeats = 3), (Formerly Automotive Technology 81A)**

**Prerequisite:** Automotive Technology 9 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 101 recommended.

The principles of automotive power train systems: automotive transmissions, drivelines, and differentials. Diagnosis and service methods.

**Change: title, description** **effective Fall 2009**

**281B Automotive Power Trains II, 3 units, 3 lecture hours, (Repeats = 3), (Formerly Automotive Technology 81B)**

**Prerequisite:** Automotive Technology 9 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 101 recommended.

The principles of automotive power train systems: automatic transaxles, driveaxles, and transfer cases. Diagnosis, service, and repair procedures.

**Change: description****effective Fall 2009**

**282A Suspension and Wheel Alignment, 3 units, 3 lecture hours, (Repeats = 3), (Formerly Automotive Technology 82A)**

**Prerequisite:** Automotive Technology 9 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 101 recommended.

Theory of basic 4-wheel alignment and suspension systems. Operating principles, component description, diagnosis, and service adjustment spec.

**Change: description****effective Fall 2009**

**282B Automotive Braking Systems, 3 units, 3 lecture hours, (Repeats = 3), (Formerly Automotive Technology 82B)**

**Prerequisite:** Automotive Technology 9 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 101 recommended.

Discuss complete disassembly and reassembly of various automotive braking systems. Operating principles, component description, diagnosis, repair, and service adjustments.

**Change: description****effective Fall 2009**

**283A Engine Performance and Diagnosis, 3 units, 3 lecture hours, (Repeats = 3), (Formerly Automotive Technology 83A)**

**Prerequisite:** Automotive Technology 9 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 101 recommended.

Latest technologies in automotive fuel delivery, emission control, and ignition systems. Diagnosis fuel, emission ignition systems. Introduction of diesel theory, application, and operation. Use of necessary test equipment.

**Change: description****effective Fall 2009**

**283B Electrical Systems, 3 units, 3 lecture hours, (Repeats = 3), (Formerly Automotive Technology 83B)**

**Prerequisite:** Automotive Technology 9 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 101 recommended.

Basic electrical theory of the automotive electrical components and systems. Diagnosing electrical components and systems including automotive computer controls using necessary equipment.

**Change: description****effective Fall 2009**

**284 Automotive Air Conditioning, 3 units, 3 lecture hours, (Repeats = 3), (Formerly Automotive Technology 84)**

**Prerequisite:** Automotive Technology 9 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 101 recommended.

Theory in automotive heating, ventilation, and air conditioning systems/components. R-12 and R-134A refrigeration systems, recovery, recycling, charging, leak, and performance testing. Discuss the diagnosis, service, and repair of automatic temperature/climate control.

**New course****effective Spring 2009**

**287 Street Rod Technology, 4 units, 2 lecture hours, 7 lab hour, (Repeats = 3)**

**Prerequisite:** None.

Modification of older vehicles to incorporate new technology from newer vehicles.

**Biology (BIOL)****Change: prerequisite, description****effective Fall 2010**

**1 Principles of Biology, 4 units, 3 lecture hours, 2 lab hours**

**Prerequisite:** Mathematics 103 with a grade of "C" or better. Completion within the last five years recommended. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Introduction to the principles and unifying concepts of life science including the chemical basis of life, cell structure and function, genetics and principles of inheritance, evolution, biological classification and diversity, and ecology. Intended for science majors and for pre-medical, pre-veterinary, pre-dental, pre-optometry, and pre-pharmacy majors. (A, CSU-GE, UC, I)

**Change: prerequisite, description****effective Fall 2010****1H Honors Principles of Biology, 4 units, 3 lecture hours, 2 lab hours, (Formerly Honors 1B)**

**Prerequisite:** Mathematics 103 with a grade of "C" or better. Completion within the last five years recommended. **Advisory:** Meet the qualifications for acceptance into the Honors Program. See Honors Program listing in the college catalog.

Introduction to the principles and unifying concepts of life science including the chemical basis of life, cell structure and function, genetics and principles of inheritance, evolution, biological classification and diversity, and ecology. Applications of the above topics to human health and environmental issues are stressed. Field trips, guest speakers, literature and scientific research, use of technology, and student presentations are included in this honors level course. Intended for science majors and for pre-medical, pre-veterinary, pre-dental, pre-optometry, and pre-pharmacy majors. (A, CSU-GE, UC, I)

**Change: prerequisite****effective Fall 2010****4 Principles of Zoology, 5 units, 3 lecture hours, 6 lab hours, (Formerly Zoology 1)**

**Prerequisite:** Biology 1 or 3 or 11A or equivalent, and Mathematics 103 or equivalent, each with a grade of "C" or better. Completion within the last five years recommended.

**Change: advisory****effective Fall 2010****5 Human Biology, 4 units, 3 lecture hours, 2 lab hours**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and eligibility for Mathematics 101 recommended.

**Change: prerequisite****effective Fall 2010****6 Principles of Botany, 5 units, 3 lecture hours, 6 lab hours, (Formerly Botany 1)**

**Prerequisite:** Biology 1 or 3 or 11A or equivalent, and Mathematics 103 or equivalent, each with a grade of "C" or better. Completion within the last five years recommended.

**Change: prerequisite****effective Fall 2010****7 Field Biology, 4 units, 3 lecture hours, 3 lab hours**

**Prerequisite:** Biology 1 or 3 or 11A or equivalent, with a grade of "C" or better. Completion within the last five years recommended.

**Course deleted****effective Spring 2010****8A Biotechnology 1, 4 units, 2 lecture hours, 6 lab hours****Course deleted****effective Spring 2010****8B Biotechnology 2, 4 units, 2 lecture hours, 6 lab hours****Course deleted****effective Spring 2010****8C Biotechnology 3, 4 units, 2 lecture hours, 6 lab hours****Course deleted****effective Spring 2010****9 Introduction to Biology, 3 units, 2 lecture hours, 2 lab hours****New course****effective Fall 2010****11A Biology for Science Majors I, 5 units, 3 lecture hours, 6 lab hours**

**Prerequisite:** Mathematics 103 with a grade of "C" or better. Completion within the last five years recommended. **Corequisite:** Chemistry 1A. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68, Biology 3 or High School Biology recommended.

The first class in a two semester sequence of general biology for science majors: the chemistry of life, the cell, cellular structure, metabolism, photosynthesis, aerobic and anaerobic respiration, mitosis, meiosis, Mendelian genetics, human genetics, molecular biology, biotechnology, and evolution. Intended for science majors and for pre-medical, pre-veterinarian, pre-dental, pre-optometry, and pre-pharmacy majors. (A, CSU)

**New course****effective Fall 2010****11AH Honors Biology for Science Majors I, 5 units, 3 lecture hours, 6 lab hours**

**Prerequisite:** Mathematics 103 with a grade of "C" or better. Completion within the last five years recommended. **Corequisite:** Chemistry 1A. **Advisory:** Meet the qualifications for acceptance into the Honors Program. See Honors Program listing in the college catalog.

The chemistry of life, the cell, cellular structure, metabolism, photosynthesis, aerobic and anaerobic respiration, mitosis, meiosis, Mendelian genetics, human genetics, molecular biology, biotechnology, and evolution. Intended for science majors and for pre-medical, pre-veterinarian, pre-dental, pre-optometry, and

pre-pharmacy majors. Field trips, guest speakers, literature and scientific research, use of technology, and student presentations are included in this honors level course. (A, CSU)

**New course****effective Fall 2010****11B Biology for Science Majors II, 5 units, 3 lecture hours, 6 lab hours**

**Prerequisite:** Biology 11A. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

The second course of a two semester sequence of general biology: the evolutionary history of biodiversity, plant structure and function, animal structure and function, and ecology. Intended for science majors and for pre-medical, pre-veterinarian, pre-dental, pre-optometry, and pre-pharmacy majors. Field trips required. (A, CSU)

**Change: prerequisite****effective Fall 2010****20 Human Anatomy, 4 units 3 lecture hours, 3 lab hours**

**Prerequisite:** Biology 1 or Biology 5 or Biology 11A or equivalent with a grade of "C" or better. Completion within the last year recommended.

**Change: description****effective Spring 2009****Change: prerequisite****effective Fall 2010****22 Human Physiology, 5 units, 4 lecture hours, 3 lab hours**

**Prerequisite:** Biology 20 or equivalent and Chemistry 3A or equivalent, each with a grade of "C" or better. Completion within the last year recommended. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

An examination of the functional relationships of the human body at the system, organ, and cellular levels, utilizing homeostasis as a unifying theme. Fulfills the physiology requirement for many nursing and other health-related programs. Three units of credit for student with credit in Biology 24. (A, CSU-GE, UC, I)

**Change: prerequisite****effective Fall 2010****24 Human Anatomy and Physiology, 5 units, 4 lecture hours, 3 lab hours**

**Prerequisite:** Biology 1 or Biology 5 or Biology 11A or equivalent with a grade of "C" or better. Completion within the last year recommended.

**Change: description****effective Spring 2009****Change: prerequisite****effective Fall 2010****31 Microbiology, 5 units, 3 lecture hours, 5 lab hours**

**Prerequisite:** Biology 1 or Biology 5 or Biology 11A or equivalent and Chemistry 3A or equivalent, each with a grade of "C" or better. Completion within the last five years recommended. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Classification, morphology, identification, physiology, and genetics, host interactions related to disease and industrial uses of microorganisms. Field trips may be required. (A, CSU-GE, UC, I)

**Change: description****effective Fall 2010****261 Internet and Computer Skills Laboratory, .2-1 unit, 3-6 lab hours, (16 weeks), (Pass/No Pass), (Repeats =3)**

**Prerequisite:** None.

Supervised use of microcomputer and the Internet. Reinforcement of concepts from classroom studies and development of problem solving abilities on an independent basis. Units based on hours worked in lab:

- (a) .2 units for minimum of 11 hours;
- (b) .4 units for minimum of 22 hours;
- (c) .6 units for minimum of 33 hours;
- (d) .8 units for minimum of 44 hours;
- (e) 1 unit for minimum of 54 hours.

**Deleted course****effective Spring 2010****270 Biology Readiness, 3 units, 2 lecture hours, 2 lab hours, (Formerly Biology 70)****Building Safety and Code Administration (BSCA)****Change: hours, advisory, cross-list, description****effective Fall 2009**

**15 Plumbing Code and Inspection, 3 units, 2 lecture hours, 4 lab hours, (Repeats = 3), (See also Construction 56)**

**Advisory:** Construction 50A and eligibility for Applied Technology 130 or Mathematics 101 and eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Introduction to residential plumbing: lay out and installation of a residential plumbing system. Familiarization with uniform plumbing code, construction and inspection, to prepare for I.A.P.M.O. and/or I.C.C. certification. (A, CSU)

## **Business Administration (BA)**

**Change: corequisite, description**

**effective Spring 2009**

### **19 Work Experience (Cooperative), Occupational, 1-8 units, (Repeats = 2)**

**Corequisite:** Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to business administration. Collaborative learning objectives established specific to business administration. Seventy-five hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester, 16 units total. May be repeated for not more than 16 units total. (A, CSU)

**Change: title, description**

**effective Spring 2009**

### **27 Students in Free Enterprise SIFE/Collegiate Entrepreneurs Organization (CEO), 1-3 units: 1 unit, 1 lecture hour, 1 lab hour; 2 units, 1 lecture hour, 2 lab hours; 3 units, 1 lecture hour, 6 lab hours, (Repeats = 3)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Business leadership training and experience using the student leadership organization, Students in Free Enterprise, which is affiliated with the international organization, Students in Free Enterprise, Inc. Participation on college-sponsored teams to compete against students from other colleges while acquiring knowledge and skills regarding teaching, service, leadership, organization, networking, and communication as it relates to the community.

Business leadership training and experience using the student entrepreneurship organization, Collegiate Entrepreneurs Organization (CEO) affiliated with the national organization. Participation in student organized fundraising events and student run short-term business ventures. Attendance at national CEO annual conference to advance the knowledge and skills required to become successful student entrepreneurs including teaching, service, leadership, organization, networking, and communication as it relates to community economic development. (A, CSU)

**Change: title, advisory, description**

**effective Spring 2009**

### **52 Introduction to Entrepreneurship, 3 units, 3 lecture hours**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and eligibility for Mathematics 101 recommended.

Develops an understanding of the complex tasks faced by individuals engaged in entrepreneurial activities. Identifies the methods for developing a business idea, the process of starting a business, how to acquire resources, and the key parts of a business plan. (A, CSU)

## **Business & Technology (BT)**

**Change: title**

**effective Fall 2009**

### **1 Typing/Document Processing I, 4 units, 3 lecture hours, 2 lab hours, (Formerly BSS 1A and Business Information Processing 1)**

**Change: title, prerequisite, advisory**

**effective Fall 2009**

### **2 Typing/Document Processing II, 4 units, 3 lecture hours, 2 lab hours, (Formerly Business Information Processing 2)**

**Prerequisite:** Business & Technology 1 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

**Change: advisory**

**effective Fall 2009**

### **6 Records Management, 3 units, 3 lecture hours, 1 lab hour, (Formerly Business Information Processing 10 and Business & Technology 10)**

**Advisory:** Business & Technology 106 or equivalent. Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

- Change: prerequisite, advisory** **effective Fall 2009**  
**7 WordPerfect I, 2 units, 3 lecture hours, 2 lab hours, (9 weeks), (Repeats = 3), (Formerly Business Information Processing 7 and Business & Technology 7 and 107)**  
**Prerequisite:** Business & Technology 106 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.
- Change: title, prerequisite, advisory** **effective Fall 2009**  
**9 Computer Applications I, 4 units, 3 lecture hours, 3 lab hours, (Formerly Business Information Processing 9)**  
**Prerequisite:** Business & Technology 1 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 101 recommended.
- Change: units, hours, prerequisite, advisory, description** **effective Fall 2009**  
**11 Today's Office, 3 units, 3 lecture hours, 1 lab hour, (Formerly Business General Office 18)**  
**Prerequisite:** Business & Technology 106. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.  
General duties of a receptionist including telephone techniques, telecommunications, handling mail, scheduling appointments, and making travel arrangements both manually and via the internet. Perform internet research on related topics. (A, CSU)
- Change: repeats, prerequisite, description** **effective Fall 2009**  
**14 Windows, 2 units, 3 lecture hours, 2 lab hours, (9 weeks), (Repeats = 1), (Formerly Business Information Processing 14)**  
**Prerequisite:** Business & Technology 106. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.  
Hands-on operation of Microsoft Windows. (A, CSU)
- Change: corequisite, description** **effective Spring 2009**  
**19 Work Experience (Cooperative), Occupational, 1-8 units, (Repeats = 2)**  
**Corequisite:** Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.  
Supervised employment extending the classroom based on occupational learning related to business & technology. Collaborative learning objectives established specific to business & technology. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester, 16 units total. May be repeated for not more than 16 units total. (A, CSU)
- Change: advisory** **effective Fall 2009**  
**21 Working Relationships, 1.5 units, 3 lecture hours, (9 weeks), (Formerly Business General Office 59B)**  
**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.
- Change: description** **effective Fall 2009**  
**26 Database Fundamentals, 2 units, 3 lecture hours, 1 lab hour, (See also Computer Information Technology 26), (Formerly Business Information Processing 26)**  
**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.  
Creating database files, entering data, modifying database file structure, designing queries, reports and forms. (A, CSU)
- Change: prerequisite, advisory** **effective Fall 2009**  
**28 Microsoft Word I, 2 units, 3 lecture hours, 2 lab hours, (9 weeks), (Repeats = 3), (Formerly Business Information Processing 28)**  
**Prerequisite:** Business & Technology 106 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.
- Change: repeats, prerequisite, advisory, description** **effective Fall 2009**  
**Change: prerequisite** **effective Fall 2010**  
**29 Microsoft Word II, 2 units, 3 lecture hours, 2 lab hours, (9 weeks), (Repeats = 3)**  
**Prerequisite:** Business & Technology 28 or Business & Technology 9 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.



Advanced features of Microsoft Word. Designed for office personnel using Microsoft Word on the job. Fulfills the computer literacy graduation requirement. (A, CSU)

**Change: description** **effective Fall 2009**

**30 Machine Transcription, 2 units, 1 lecture hour, 2 lab hours, (Formerly Business Information Processing 11)**

**Advisory:** Business & Technology 2 or equivalent, Business & Technology 112/English 159, and eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Machine transcription procedures and problems, proofreading, punctuation, and spelling. (A, CSU)

**Change: units, hours** **effective Fall 2009**

**112 Business English, 3 units, 3 lecture hours, (Formerly Business Information 59 and Business & Technology 12)**

**Change: hours, weeks** **effective Fall 2009**

**123 Ten-Key Skillbuilding, 1 unit, 3 lab hours, (Pass/No Pass), (Open Entry/Open Exit)**

**Change: hours, advisory** **effective Fall 2009**

**144 Medical Administrative Assistant, 3 units, 2 lecture hours, 3 lab hours, (Fall only), (Formerly BSS 58 and Business General Office 58 and Business & Technology 44)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended. Business & Technology 1 or equivalent.

**Change: advisory** **effective Fall 2009**

**145 Medical Transcription I, 2 units, 1 lecture hour, 2 lab hours, (Formerly BSS 60A and Business Information Processing 60 and Business & Technology 45)**

**Advisory:** Business & Technology 30, Business & Technology 2 or equivalent, and eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

**Change: prerequisite, advisory** **effective Fall 2009**

**146 Medical Transcription II, 2 units, 1 lecture hour, 2 lab hours, (Formerly BSS 60B and Business Information Processing 61 and Business & Technology 46)**

**Prerequisite:** Business & Technology 145 or equivalent. **Advisory:** Business & Technology 2 or equivalent, and eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

**Change: title, hours, advisory, description** **effective Fall 2009**

**147 Medical Management Software, 1 lecture hour, 3 lab hours, (Formerly Business Information Processing 63 and Business & Technology 47)**

**Advisory:** Business & Technology 148 or equivalent work experience and Business & Technology 1 or equivalent.

Familiarization with computerized account management program to develop confidence and skill necessary to become a successful user of medical management software. (A)

**Change: hours, advisory** **effective Fall 2009**

**148 Medical Insurance Forms, 3 units, 2 lecture hours, 3 lab hours, (Formerly BSS 64 and Business General Office 64 and Business & Technology 48)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended. Business & Technology 1 or equivalent.

**New course** **effective Fall 2009**

**280 Basic Office Procedures, 2 units, 2 lecture hours**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Basic office procedures and duties including basic communication skills, proper use of the telephone, handling mail, scheduling appointments, and introduction to filing records utilizing a manual system, arranging, and storing files.

**Change: subject, description** **effective Fall 2009**

**370 Office Assistant Applications, 10 lecture hours, 20 lab hours, (20 weeks), (600 total hours), (Repeats = 3), (Formerly Clerical Training CTC 370 and Clerical Training VTC 70)**

Develop and improve skills for those desiring office employment. Emphasis on records management, keyboarding, grammar, 10-key, MS Word, MS Excel, human relations, telephone techniques, resume/interview, and computer literacy.

## **Chemistry (CHEM)**

### ***Change: description***

***effective Fall 2009***

#### **1A General Chemistry, 5 units, 3 lecture hours, 6 lab hours**

**Prerequisite:** High school chemistry with laboratory component, or Chemistry 3A, or equivalent, and Mathematics 103 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Development of atomic theory; atoms, isotopes, molecules, and ions; compounds; classification of matter; formulas and equations; stoichiometry; introduction to aqueous reactions; precipitation, acids and bases, and gas forming and redox reactions; gas laws; kinetic molecular theory of gases; thermochemistry; modern atomic theory; VSEPR theory; valence bond (hybridization) and molecular orbital theories; intermolecular forces; properties of liquids; solids and crystal structures; solution behavior; colligative properties; associated laboratory experiments; and volumetric (titrimetric) and gravimetric analysis methods. (A, CSU-GE, UC, I)

### ***Change: description***

***effective Fall 2009***

#### **1B General Chemistry and Qualitative Analysis, 5 units, 3 lecture hours, 6 lab hours**

**Prerequisite:** Chemistry 1A. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Acid-base theory; chemical kinetics; equilibrium (acid-base, hydrolysis, and solubility); chemical thermodynamics and electrochemistry; selected topics in nuclear chemistry, coordination chemistry, and/or chemistry of selected groups; inorganic qualitative and quantitative analysis. (TCSU CHEM 120) (A, CSU-GE, UC, I)

### ***Change: prerequisite, advisory, description***

***effective Fall 2009***

#### **3A Introductory General Chemistry, 4 units, 3 lecture hours, 3 lab hours, (Replaces Chemistry 2A-2B)**

**Prerequisite:** Mathematics 103 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Chemistry for applied science and non-science majors. The scientific method; chemical computations; composition of matter, energy, and physical and chemical changes; fundamental laws and principles; atomic and molecular theory, gas laws, solutions, acid-base theories, oxidation-reduction, equilibrium, nuclear chemistry, and qualitative and quantitative theories and techniques. (A, CSU-GE, UC, I)

### ***Change: title, description***

***effective Fall 2009***

#### **28A Organic Chemistry I, 3 units, 3 lecture hours, (Formerly Chemistry 28)**

**Prerequisite:** Chemistry 1B. **Corequisite:** Chemistry 29A. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Structures, properties, reactions, and nomenclature of alkanes, alkenes, alkynes, alkyl halides, alcohols, amines, ethers, epoxides, and organometallic compounds. Radical, substitution, and elimination reactions. Synthesis, separation, and identification of representative compounds. Reactions and nomenclature of stereoisomers. Introduction to Infrared, nuclear magnetic, and mass spectroscopies. Resonance and conjugation. Kinetic versus thermodynamic control of reactions. Multistep synthesis. (A, CSU-GE, UC, I)

### ***Change: title, description***

***effective Fall 2009***

#### **28B Organic Chemistry II, 3 units, 3 lecture hours**

**Prerequisite:** Chemistry 28A. **Corequisite:** Chemistry 29B. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Structures, properties, reactions, and nomenclature of aromatic compounds, benzene derivatives, amines, carbonyl compounds and their derivatives, carbohydrates, amino acids, lipids, and nucleic acids. Structural analysis of aromatic, carbonyl, and amine containing compounds. Oxidation-reduction chemistry of organic functional groups. Multistep synthesis, separation, identification, and reaction mechanisms of representative compounds. Protecting groups in multistep synthesis. (A, CSU-GE, UC, I)

### ***Change: title, description***

***effective Fall 2009***

#### **29A Organic Chemistry Laboratory I, 2 units, 6 lab hours**

**Prerequisite:** Chemistry 1B. **Corequisite:** Chemistry 28A. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Laboratory for Chemistry 28A; isolation, purification, and identification of organic compounds. Product characterization; melting point and boiling point; index of refraction; chromatography. Principles and hands on application of FT-NMR, FTIR, and gas and solid phase chromatography. Principles and interpretation of GC-MS data. Application of theories and mechanisms of organic reactions. Methods of synthesis. (A, CSU-GE, UC, I)

**Change: title, description**

**effective Fall 2009**

**29B Organic Chemistry Laboratory II, 2 units, 6 lab hours**

**Prerequisite:** Chemistry 29A. **Corequisite:** Chemistry 28B. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Continuation of Chemistry 29A and the laboratory for Chemistry 28B. Application of theories and mechanisms of organic reactions. Methods of synthesis, isolation, purification, and identification of organic compounds. Principles and hands on application of FT-NMR, FTIR, and gas and solid phase chromatography. Principles and interpretation of GG-MS data. (A, CSU-GE, UC, I)

## **Child Development (CHDEV)**

**Change: corequisite, description**

**effective Spring 2009**

**19 Work Experience (Cooperative), Occupational, 1-8 units, (Repeats = 2)**

**Corequisite:** Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to child development. Collaborative learning objectives established specific to child development. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester, 16 units total. May be repeated for not more than 16 units total. (A, CSU)

**Change: subject**

**effective Fall 2010**

## **Communication (COMM)**

Formerly Speech (SPEECH)

**Change: subject, description**

**effective Fall 2010**

**1 Introduction to Public Speaking, 3 units, 3 lecture hours, (Formerly Speech 1)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Theories and techniques of public speaking from the perspective of the speaker and the audience. Emphasis on research, logical organization, composition and effective delivery of informative and persuasive speeches. Practice in clearly stating and developing ideas. (A, CSU-GE, UC, I)

**Change: subject**

**effective Fall 2010**

**2 Interpersonal Communication, 3 units, 3 lecture hours, (Formerly Speech 2)**

**Change: subject, description**

**effective Fall 2010**

**4 Persuasion, 3 units, 3 lecture hours, (Formerly Speech 4)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Theories and practice of influence, advocacy, and reasoning from the perspective of both persuader and audience. Practice preparing effective, ethical persuasive appeals. (A, CSU-GE, UC, I)

**Change: subject**

**effective Fall 2010**

**8 Group Communication, 3 units, 3 lecture hours, (Formerly Speech 8)**

**Change: subject**

**effective Fall 2010**

**12 Fundamentals of Interpretation, 3 units, 3 lecture hours, (See also Theatre Arts 12), (Formerly Speech 12)**

**Change: subject**

**effective Fall 2010**

**20 Community Involvement, 1-3 units, 1 lecture hour, 3-6 lab hours, (Repeats = 3), (Formerly Speech 20)**

**Change: subject**

**effective Fall 2010**

**25 Argumentation, 3 units, 3 lecture hours, (Formerly Speech 25)****Change: subject, description****effective Fall 2010****26 Intercollegiate Forensics Laboratory, 1-3 units, 1 lecture hour, 3-6 lab hours, (Repeats = 3), (Formerly Speech 26)**

Competitive and practical experience in debate and public speaking. In addition to the class or activity hour each week on campus, students must either attend intercollegiate tournaments for a specified number of weekends or participate in on-campus intramural contests. (A, CSU)

**Computer Aided Drafting and Design (CADD)****Change: title, advisory, description****effective Fall 2009****14 2D CAD I, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3), (Formerly Drafting 42 and 32)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 101 or Applied Technology 130 recommended.

Creating and modifying digital drawings for the architectural, engineering, mechanical and other related industries. (A, CSU)

**Change: number, title, prerequisite, advisory, description****effective Fall 2009****16 3D Solid Modeling I, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3), (Formerly Drafting 20 and Computer Aided Drafting and Design 34 and 26)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 101 or Applied Technology 130 recommended.

CAD generated 2D sketches, 3D solid models, assemblies and detailed drawings for the mechanical industry. (A, CSU)

**Change: description****effective Fall 2009****22 Mechanical Drawing I, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)**

**Prerequisite:** Computer Aided Drafting and Design 14 and 12.

Advanced mechanical drawings covering orthographic projections, sections, auxiliaries and pictorials. Precision measurement, tolerances, and design will also be explored. (A, CSU)

**Change: title, description****effective Fall 2009****24 2D CAD II, 3 units, 2 lecture hours, 3 lab hours. (Repeats = 3)**

**Prerequisite:** Computer Aided Drafting and Design 14.

Advanced 2D CAD topics for the computer aided draftsman in the disciplines of architecture, engineering, mechanical and other related industries. (A, CSU)

**Change: number, title, prerequisite, description****effective Fall 2009****26A 3D Solid Modeling II, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3), (Formerly Computer Aided Drafting and Design 36)**

**Prerequisite:** Computer Aided Drafting and Design 16.

3D sketching, advanced drawings, legacy data import, design table configurations and subassemblies using 3D solid modeling techniques for the mechanical industry. (A, CSU)

**New course****effective Fall 2009****28 Rapid Prototyping I, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)**

**Prerequisite:** Computer Aided Drafting and Design 16.

Realistic rapid prototyping from digital solid models using processes such as 3D printing, silicone molds, casting resins, vacuum forming, laser cutting and engraving and the application of finishes. (A, CSU)

**Change: prerequisite, description****effective Fall 2009****32 Mechanical Drawing II, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3), (Formerly Drafting 22 and Computer Aided Drafting 22 and Design 24)**

**Prerequisite:** Computer Aided Drafting and Design 16 and 22.

Mechanical drawings covering sheet metal, fasteners, thread, springs, gears, cams, and welding. 2D and 3D CAD are used. (A, CSU)

**New course****effective Fall 2009****36A 3D Solid Modeling III, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)**

**Prerequisite:** Computer Aided Drafting and Design 26A and 28.

Animation, rendering, simulation, analysis and reverse engineering applied to solid model parts and assemblies, for the mechanical industry. Rapid prototype project. (A, CSU)

**Change: prerequisite**

**effective Fall 2009**

**40 Civil Drafting Applications, 3 units, 2 lecture hours, 3 lab hours, (Formerly Drafting 30)**

**Prerequisite:** Drafting 160 and Computer Aided Drafting and Design 24.

**Change: prerequisite**

**effective Fall 2009**

**42 Mechanical Drawing III, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)**

**Prerequisite:** Computer Aided Drafting and Design 32 and 36A.

## **Computer Aided Manufacturing (CAM)**

**New course**

**effective Fall 2009**

**1A CAM & Cabinetry Operation I, 13 units, 10 lecture hours, 10 lab hours, (Repeats = 3)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 101 recommended.

Application of Computer Aided Design (CAD) Software and Computer Aided Manufacturing (CAM) Software and Computer Numerical Control (CNC) Router and HAAS Machines to design and manufacture product for plastic, aluminum, and wood fabrication. Specialized activities related to the field of CNC cabinetmaking; 32-mm system, edge banding, and sign design. (A, CSU)

**New course**

**effective Fall 2009**

**1B Mill and Lathe Operation II, 13 units, 10 lecture hours, 10 lab hours, (Repeats = 3)**

**Prerequisite:** Computer Aided Manufacturing 1A.

3D Solid Design using MasterCAM Mill and Lathe software for machine tool programming, multi operation set-up, advance set up on a HAAS Mill/Lathe, FAGOR 5-AXIS and Akira Seiki Mill/Lathe CNC machines and shop safety. (A, CSU)

**Change: units, hours, repeats, description**

**effective Fall 2009**

**10 CNC Mill Programming & Operation I, 7 units, 5 lecture hours, 5 lab hours, (Repeats = 3), (Formerly Drafting and Computer Aided Drafting and Design 44)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 101 recommended.

Application of Computer Aided Design (CAD) Software and Computer Aided Manufacturing (CAM) Software and Computer Numerical Control (CNC) Router Machines to design and manufacture product for plastic and wood fabrication. Specialized activities related to the field of CNC cabinetmaking; 32-mm system, edge banding, and sign design. (A, CSU)

**Change: units, hours, advisory, description**

**effective Fall 2009**

**20 CNC Mill Programming & Operation II, 7 units, 5 lecture hours, 5 lab hours, (Repeats = 3)**

**Prerequisite:** Computer Aided Manufacturing 10.

3D wire-frame and 3D Solid designing in MasterCAM Software for Mill and Lathe machine tool programming; operation and set-up of Computer Numerical Control (CNC) HAAS Mill/Lathe, Akira Seiki Mill/Lathe machines and shop safety. (A, CSU)

**Delete course**

**effective Fall 2009**

**30 CNC Mill Programming & Operation III, 6 units, 4 lecture hours, 6 lab hours, (Repeats = 3)**

**Delete course**

**effective Fall 2009**

**40 CNC Lathe Programming & Operation, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)**

**Delete course**

**effective Fall 2009**

**50 Special Projects and Portfolio Presentations, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)**

## **Computer Information Technology (CIT)**

**Change: title, hours, repeats, description**

**effective Fall 2009**

**17 Windows Vista Basics, 2 units, 3 lecture hours, 1 lab hour, (Repeats = 1), (Formerly Computer Information Systems and Information Systems 14)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Basic introduction to Microsoft Windows. Introductory hands-on operations for students who want to learn how to manage files, run applications, customize desktops, browse the internet, use email, and work with pictures and music. (A, CSU)

**Change: corequisite, description**

**effective Spring 2009**

**19 Work Experience (Cooperative), Occupational, 1-8 units, (Repeats = 2)**

**Corequisite:** Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to computer information technology. Collaborative learning objectives established specific to computer information technology. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester, 16 units total. May be repeated for not more than 16 units total. (A, CSU)

**Change: description**

**effective Fall 2009**

**21 Advanced Microsoft Office, 3 units, 3 lecture hours, 1 lab hour, (Formerly Information Systems 46)**

**Prerequisite:** Computer Information Technology 20. **Advisory:** Computer Information Technology 60 recommended.

An advanced course in integrating the major software components of Microsoft Office Suite: Word, Excel, Access, PowerPoint, and Outlook. Includes the use of Visual Basic for Applications (VBA) to create macros. Covers advanced topics such as style sheets, 3-D workbooks, file linking, multiple table queries, macros, and prototyping. (A, CSU)

**New course**

**effective Fall 2009**

**28 Client/Server Databases, 3 units, 3 lecture hours, 1 lab hour**

**Prerequisite:** None.

Fundamentals of relational database systems. Learn how to design, program and administer a client/server database. (A, CSU)

**Change: number**

**effective Fall 2009**

**46 Network+ Preparation, 2 units, 3 lecture hours, 1 lab hour, (9 weeks), (Repeats = 1), (Formerly Information Systems 231 and Computer Information Technology 237)**

**Change: number, prerequisite, repeats**

**effective Fall 2009**

**48 A+ and Server+ System Fundamentals, 3 units, 3 lecture hours, (Repeats = 1), (Formerly Information Systems and Computer Information Technology 238)**

**Prerequisite:** Computer Information Technology 15.

**Change: number**

**effective Fall 2009**

**49 iNet+ Preparation, 3 units, 3 lecture hours, 1 lab hour, (Repeats = 1), (Formerly Information Systems and Computer Information Technology 239)**

**Change: description**

**effective Fall 2009**

**50 Fundamentals of Networking, 4 units, 4 lecture hours, 1 lab hour, (Repeats = 2), (Formerly Information System 28, 30, and 30A)**

**Prerequisite:** Computer Information Technology 45.

Implementing and supporting a Microsoft Windows network infrastructure. For product support professionals who will be responsible for installing, configuring and supporting a Microsoft Windows network infrastructure. Prepare students for the MCSE exam. Fundamentals of UNIX using Solaris. (A, CSU)

**New course**

**effective Fall 2009**

**57 Wireless Networking for Home and Office, 3 units, 3 lecture hours, 1 lab hour**

**Prerequisite:** Computer Information Technology 15. **Advisory:** Computer Information Technology 40, 45, and 50 recommended.

Basic understanding of wireless networking. Plan, design, and configure wireless networks and equipment. Basic security for wireless networks. Prepare for the Certified Wireless Network Administrator (CWNA) exam. (A, CSU)

**New course****effective Fall 2009****58A Principles of Information Security, 3 units, 3 lecture hours, 1 lab hour**

**Prerequisite:** Computer Information Technology 15. **Advisory:** Computer Information Technology 40, 45, and 50 recommended.

Basic understanding information security in a business environment. Prepares students to become CISSP (certified information systems development life cycle) and uses the cycle to build a security system. Examines both managerial and technical components of security. Lay a foundation from which managerial strategies can be formulated and technical solutions selected. (A, CSU)

**New course****effective Fall 2009****58B Operating System Security, 3 units, 3 lecture hours, 1 lab hour**

**Prerequisite:** Computer Information Technology 15. **Advisory:** Computer Information Technology 40, 45, and 50 recommended.

A full range of security concepts and techniques used in the business environment. Prepares students to become Security+ certified. Covers desktop and network server security concepts using windows, Linux and the Mac OS X. Examines all aspects of operating system security from how attackers operate to how viruses strike. Introduces operating system hardening to repel attacks on both business networks and workstations. (A, CSU)

**New course****effective Fall 2009****58C Network Security Fundamentals, 3 units, 3 lecture hours, 1 lab hour**

**Prerequisite:** Computer Information Technology 15. **Advisory:** Computer Information Technology 40, 45, and 50 recommended.

Provides a comprehensive overview of network security. Covers a full range of security concepts and techniques used in the business environment. Prepares students to become CompTIA Security+ certified. Covers authentication methods and common network attacks with strategies to protect a business against these attacks. Explores various network devices and media, and the proper use of perimeter topologies, extranets, and intranets to establish network security. Introduces basic cryptography and basic operational and organizational security measures. (A, CSU)

**New course****effective Fall 2009****58D Network Defense and Countermeasures, 3 units, 3 lecture hours, 1 lab hour**

**Prerequisite:** Computer Information Technology 15. **Advisory:** Computer Information Technology 40, 45, and 50 recommended.

Examines the practice and techniques of intrusion detection to deter network attacks against business information technologies. Provides a comprehensive overview of intrusion detection design, and implementation, virtual private networks, packet filters, and network traffic signatures. Prepares students to take the network defense and countermeasures exam for the security certified professional (SCP) which is an industry standard security certification. (A, CSU)

**New course****effective Fall 2009****58E Firewalls and Network Security, 3 units, 3 lecture hours, 1 lab hour**

**Prerequisite:** Computer Information Technology 15. **Advisory:** Computer Information Technology 40, 45, and 50 recommended.

Comprehensive overview of firewalls and their use with other network security components Perimeter devices and concepts are covered to provide a secure business environment. Prepares students for industry standard security certifications. Covers authentication methods, packet filtering, proxy servers, and encryption strategies to protect business information systems. (A, CSU)

**New course****effective Fall 2009****58F Ethical Hacking, 3 units, 3 lecture hours, 1 lab hour**

**Prerequisite:** Computer Information Technology 15. **Advisory:** Computer Information Technology 40, 45, and 50 recommended.

Basic understanding of the ethics involved in testing systems and networks using hacking tools to judge the level of vulnerability. Penetration testing methodologies, security certification programs, law governing hacking, tools such as port scanners and network sniffers as well as spyware, adware, worms, and viruses. (A, CSU)

**Change: description****effective Fall 2009****61 Advanced Visual Basic, 3 units, 3 lecture hours, 1 lab hour, (Formerly Information Systems 49)**

**Prerequisite:** Computer Information Technology 60.

Introduction to programming databases in Visual Basic. Beginning or intermediate students will receive a solid foundation working with database theory and use this knowledge to create a fully database-enabled Visual Basic application. Course content includes database tutorials, database basics, tables, records, fields, field types, primary and foreign keys, referential integrity, using Microsoft Access, and the Visual Basic Data Control. (A, CSU, UC)

**Change: units, hours, description** **effective Fall 2009**

**63 Beginning Java Programming, 4 units, 3.5 lecture hours, 1 lab hour, (Formerly Information Systems 33 and 39)**

**Prerequisite:** Computer Information Technology 15.

Developing Java Applets and applications using the Java programming language. Emphasis on object-orientated programming, control structures, methods, arrays, strings, inheritance, and graphics. (A, CSU, UC)

**Change: units, hours, description** **effective Fall 2009**

**64 Advanced Java Programming, 4 units, 3.5 lecture hours, 1 lab hour, (Formerly Information Systems 34)**

**Prerequisite:** Computer Information Technology 63.

Extends programming concepts and techniques covered in the beginning Java programming class. Design and code Java programs, applets and servlets using proper object oriented techniques including inheritance, encapsulation and polymorphism. Design and implement data structures and abstract data types. Use multidimensional arrays, Java collections, external data files and exception handling to create meaningful Java programs. (A, CSU, UC)

**Change: units, hours** **effective Fall 2009**

**66 Beginning C++ Programming, 4 units, 3.5 lecture hours, 1 lab hour, (Formerly Information Systems 36)**

**Change: units, hours** **effective Fall 2009**

**67 Advanced C++ Programming, 4 units, 3.5 lecture hours, 1 lab hour, (Formerly Information Systems 37)**

**Change: hours** **effective Fall 2009**

**68 Advanced Programming Applications, 4 units, 3.5 lecture hours, 1 lab hour, (Repeats = 1)**

**Change: description** **effective Fall 2009**

**80 Internet Basics, 2 units, 3 lecture hours, 1 lab hour, (9 weeks), (Formerly Information Systems 7 and 40)**

**Prerequisite:** None.

Introduction to the Internet and the World Wide Web, including the use of e-mail, discussion boards, browser basics, FTP, searching the Web, History of the Internet, Internet ethics, e-commerce, and Netiquette. (A, CSU)

**New course** **effective Fall 2009**

**82 Web Technologies, 3 units, 3 lecture hours, 1 lab hour**

**Prerequisite:** None.

Survey of contemporary web technologies in authoring, distributing, and browsing. Topics include: web servers, scripting, protocols, E-Commerce, information architecture, website traffic analysis, search engine optimization, and website usability. (A, CSU)

**Delete course** **effective Fall 2009**

**86 Web Page Development I, 2 units, 3 lecture hours, 1 lab hour, (9 weeks), (Formerly Information Systems 23)**

**Delete course** **effective Fall 2009**

**87 Web Page Development II, 2 units, 3 lecture hours, 1 lab hour, (9 weeks), (Formerly Information Systems 24)**

**Change: title, units, hours, advisory, description** **effective Fall 2009**

**90 Data Driven Websites, 4 units, 3.5 lecture hours, 1 lab hour, (Formerly Information Systems 28)**

**Prerequisite:** Computer Information Technology 15. **Advisory:** Computer Information Technology 85 recommended.

Developing dynamic websites using server-side scripting and a database. (A, CSU)



**Change: title, prerequisite, advisory****effective Fall 2009**

- 93 Client Side Scripting, 3 units, 3 lecture hours, 1 lab hour.**  
**Advisory:** Computer Information Technology 85.

**New course****effective Fall 2009**

- 94 Server Side Scripting, 3 units, 3 lecture hours, 1 lab hour**  
**Prerequisite:** None.

Dynamic web pages from the server side perspective. Create server side scripting application in language such as PHP, ASP, JSP. Scripting fundamentals, stateless session management, and database connectivity. Exception handling, debugging, testing, and maintenance. Object-oriented design and programming. Document Object Model. (A, CSU)

**Change: weeks, pass/no pass****effective Fall 2009**

- 260 Computer Skills Lab, 1 unit, 3 lab hours, (16 weeks), (Pass/No Pass), (Repeats = 3), (Open Entry/Open Exit), (Formerly Computer Information Systems 60, Information Systems 60, and Information Systems 260)**

**Change: weeks****effective Fall 2009**

- 261 Internet Skills Lab, 0.2-1 unit, 0.6-3 lab hours, (16 weeks), (Pass/No Pass), (Repeats = 3), (Open Entry/Open Exit), (Formerly Computer Information Systems 61 and 261)**

**Delete course****effective Fall 2009**

- 277 Accelerated Excel, 3 lecture hours, 2 lab hours, (9 weeks), (See also Business & Technology 277), (Formerly Information Systems 77 and 277)**

**Construction (CONS)****Change: corequisite, description****effective Spring 2009**

- 19 Work Experience (Cooperative), Occupational, 1-8 units, (Repeats = 2)**

**Corequisite:** Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to construction. Collaborative learning objectives established specific to construction. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester, 16 units total. May be repeated for not more than 16 units total. (A, CSU)

**Change: hours, cross-listing, description****effective Fall 2009**

- 56 Residential Plumbing, 3 units, 2 lecture hours, 4 lab hours, (Repeats = 1), (See also Building Safety and Code Administration)**

**Advisory:** Construction 50A and eligibility for Applied Technology 130 or Mathematics 101 and eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Introduction to residential plumbing; lay out and installation of a residential plumbing system. Familiarization with uniform plumbing code, construction and inspection, to prepare for I.A.P.M.O. and/or I.C.C. certification. (A, CSU)

**Counseling (COUN)****Delete course****effective Spring 2010**

- 11 Strategies for Academic Success, 3 units, 3 lecture hours, (Formerly Guidance Studies 11)**

**Delete course****effective Spring 2010**

- 38 Student Success Skills Enhancement, 3 units, 3 lecture hours, (Formerly Guidance Studies 38)**

**Change: repeats, description****effective Spring 2010**

- 43 Group Dynamics and Self Understanding, 2 units, 2 lecture hours, (Formerly Guidance Studies 43)**  
**Prerequisite:** None.

An in-depth look at concepts key to self-understanding and successful relationships with a focus on building self-confidence, self-esteem, assertiveness, and interpersonal skills while also indentifying barriers to

communication and healthy dynamics. Emphasis may include: Interpersonal Abuse and Trauma, Peer Mentoring, Substance Abuse, and/or Social Anxiety. (A, CSU)

**Change: hours, weeks, advisory, description** **effective Spring 2010**

**48 Career Planning and Development, 1 unit, 1 lecture hour, (Formerly Guidance Studies 48)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Designed to focus on career building, career pathways, which includes self assessment, career exploration, occupational outlook, computerized resources and career information systems. (A, CSU)

**Change: description** **effective Spring 2010**

**53 College and Life Management, 3 units, 3 lecture hours, (Formerly Guidance Studies 53)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Exploration and development of student's personal strengths, personality types, learning styles, values, levels of attribution, success skills; including defining personal, educational, and career goals through various teaching methodologies to increase life-long learning. (A, CSU)

**Change: title, description** **effective Spring 2010**

**54 Civic Responsibility and Leadership, 1 unit, 1 lecture hour, (Formerly Guidance Studies 54)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Designed to assist students with the transition process from college to other life roles. Understanding role responsibilities to self and the community. Soft skills, leadership development, and life planning. (A, CSU)

**Change: number, title, advisory** **effective Spring 2010**

**141 Academic Transition, 3 lecture hours, (Formerly Guidance Studies 41 and Counseling 41)**

**Prerequisite:** None.

**Change: number, advisory, description** **effective Spring 2010**

**147A College Study Skills, General Habits, 1 unit, 2 lecture hours, (9 weeks), (Formerly Guidance Studies 47A and 52, and Counseling 47A)**

**Prerequisite:** None.

Establishing effective success strategies such as study habits, goal-setting, time and life management, improving concentration, active listening, college resources and educational planning. (A)

**Change: number, advisory** **effective Spring 2010**

**147B College Study Skills, Academic Skills, 1 unit, 2 lecture hours, (9 weeks), (Formerly Guidance Studies 47B and 52, and Counseling 47B)**

**Prerequisite:** None.

**Change: number, hours, weeks, description** **effective Spring 2010**

**149 Job Preparation, 1 unit, 1 lecture hour, (Formerly Guidance Studies 49 and Counseling 49)**

**Prerequisite:** None.

Development of positive coping strategies and interpersonal relationships in the workplace. Practice interview techniques and positive workplace behaviors. Exploring career implications and the job market. (A)

**New course** **effective Spring 2010**

**200 College Orientation, 1 unit, 2 lecture hours, (9 weeks)**

**Prerequisite:** None.

College success strategies to assist students effectively maneuver through the college environment, including understanding the college's catalog, policies and procedures, library and additional resources. Identification and matriculation to next educational/vocational endeavors.

**Change: number, title** **effective Spring 2010**

**250 Student Readiness Seminar, 1 unit, 2 lecture hours, (9 weeks), (Formerly Guidance Studies 50 and 150, and Counseling 150)**

## Criminology (CRIM)

**Change: corequisite, description**

**effective Spring 2009**

### **19 Work Experience (Cooperative), Occupational, 1-8 units, (Repeats = 2)**

**Corequisite:** Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to criminology. Collaborative learning objectives established specific to criminology. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester, 16 units total. May be repeated for not more than 16 units total. (A, CSU)

## Dance (DANCE)

**Change: description**

**effective Spring 2009**

### **9 Dance Conditioning, 1 unit, 3 lab hours, (Repeats = 3)**

**Prerequisite:** None.

Conditioning techniques which promote body awareness, improve body alignment, enhance and expedite body ability for dance skills, and aid in preventing injuries common to various dance styles. (A, CSU, UC)

**Change: title, advisory**

**effective Spring 2009**

### **10 Beginning Modern Dance Technique, 1 unit, 3 lab hours, (Repeats = 3), (Formerly Physical Education 4)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

**Change: description**

**effective Spring 2009**

### **12 Beginning Ballet, 1 unit, 3 lab hours, (Repeats = 3), (Formerly Physical Education 26)**

**Prerequisite:** None.

Fundamental technique of classical Ballet using barre exercises and center work, basic concept of Ballet dance vocabulary learning Ballet terminology for the beginning student. (A, CSU, UC)

**Change: prerequisite, description**

**effective Spring 2009**

### **13 Intermediate Ballet, 1 unit, 3 lab hours, (Repeats = 3)**

**Prerequisite:** Satisfactory completion of Dance 12 or equivalent as demonstrated through testing and recommended by instructors.

Intermediate-level Ballet technique using barre exercises and center work. (A, CSU, UC)

**Change: advisory**

**effective Spring 2009**

### **14 Beginning Jazz Dance Technique, 1 unit, 3 lab hours, (Repeats = 3), (Formerly Physical Education 27)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

**Change: corequisite, advisory**

**effective Spring 2009**

### **15 Intermediate Jazz Dance Technique, 1 unit, 3 lab hours, (Repeats = 3)**

**Prerequisite:** Dance 14 or demonstration of comparable skill level to be determined by testing or video portfolio of past jazz dance performance work. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

**Change: description**

**effective Spring 2009**

### **16 Beginning Tap Dance, 1 unit, 2 lab hours, (Repeats = 3)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

An introduction of various tap styles, sequences, and dance patterns to develop rhythm, coordination, and balance. (A, CSU, UC)

**Change: prerequisite**

**effective Spring 2009**

### **18 Intermediate Tap Dance, 1 unit, 2 lab hours, (Repeats = 3)**

**Prerequisite:** Dance 16.

**Change: advisory, description****effective Spring 2009****20A Beginning Modern Dance Composition, 3 units, 2 lecture hours, 3 lab hours, (Formerly Physical Education 20A)**

**Advisory:** Dance 10 recommended, eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Modern dance technique warm up and exercises for development of movement vocabulary, strength, flexibility, alignment, range of motion, and rhythmic coordination. Guided group improvisations will be used for development of personal movement vocabulary, creative outlet, and to hone in on basic improvisational skills. Study of modern dance as an art form including brief discussions on history and theory. Study of dance composition theories and conceptual approaches. Creation of solo and group work. (A, CSU-GE, UC)

**Change: advisory, description****effective Spring 2009****20B Intermediate Modern Dance Composition, 3 units, 2 lecture hours, 3 lab hours, (Formerly Physical Education 20B)**

**Prerequisite:** Dance 20A, or demonstration of comparable skill level to be determined by testing and/or video portfolio of past modern dance performance work. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Modern dance technique warm up and exercises for development of movement vocabulary, strength, flexibility, alignment, range of motion, and rhythmic coordination. Guided group improvisations will be used for development of personal movement vocabulary, creative outlet, and to hone in on intermediate improvisational skills. Dance composition theories and conceptual approaches. Creation of solo and group work on a complex and multi-dimensional level. Hone in on one's own artistic voice and to be able to articulate their reasons for creation in an intelligent, comprehensive manner. (A, CSU, UC)

**Change: prerequisite, advisory, description****effective Spring 2009****21 Dance Workshop Performance, 2-4 units, 1 lecture hour, 3-9 lab hours per unit, (Repeats = 3), (Formerly Physical Education 21)**

**Prerequisite:** Previous Modern dance, Jazz, or Ballet experience or concurrent enrollment in Ballet, Jazz, or Modern dance recommended. For choreographers: Dance 20A or demonstration of comparable skill level to be determined by Artistic Director through testing and/or video portfolio of past Modern Dance, Jazz, or Ballet dance performance work. **Advisory:** For choreographers: Eligibility for English 1A recommended.

Dance technique and conditioning, improvisation, choreography, rehearsal, and performance on main stage in an informal setting. Diagnostic test in dance technique will be given during the first three weeks of the semester. (A, CSU)

**Change: prerequisite, advisory, description****effective Spring 2009****22 Dance Theatre Performance, 2-4 units: 2 units, 1 lecture hour, 3 lab hours; 3 units, 1 lecture hour, 6 lab hours; 4 units, 1 lecture hour, 9 lab hours, (Repeats = 3), (Formerly Physical Education 22)**

**Prerequisite:** Current intermediate competency in Ballet, Jazz, or Modern Dance and concurrent enrollment in Ballet, Jazz, or Modern Dance recommended. For choreographers: Dance 20A or demonstration of comparable skill level to be determined by Artistic Director through testing and/or video portfolio of past Modern Dance, Ballet, Jazz performance work. **Advisory:** For choreographers: Eligibility for English 1A recommended.

Intermediate level dance technique, conditioning, improvisation, choreography, rehearsal, and performance on main stage in a formal theatrical presentation. Participants need to demonstrate their technical level during the first three weeks of classes. (A, CSU, UC)

**Delete course****effective Spring 2009****23 Selected Topics in Dance Workshop, 2-4 units, 1 lecture hour, 3-9 lab hours, (Repeats = 3)****Delete course****effective Spring 2009****24 Selected Topics in Dance Theatre, 1-4 units; 1 unit, 3 lab hours; 2 units, 1 lecture hour, 3 lab hours; 3 units, 1 lecture hour, 6 lab hours; 4 units, 1 lecture hour, 9 lab hours, (Repeats = 3)****Change: units, hours, corequisite****effective Spring 2009****26 American College Dance Festival, 2 units, 2 lecture hours, 5 lab hours, (9 weeks), (Repeats = 3)**

**Corequisite:** Dance 21 or 22. **Advisory:** Preparation of dance participants for attendance at the American College Dance Festival. Participation in master classes and participation/attendance at adjudication concerts.

**New course***effective Spring 2009***28 Intermediate Modern Dance Technique, 1 unit, 3 lab hours, (Repeats = 3)**

**Prerequisite:** Satisfactory completion of Dance 10 or equivalent as demonstrated through testing and recommended by instructors. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Intermediate-level modern dance, emphasis on up-side down movement, fast-pace locomotor patterns, and weight sharing. (A, CSU)

**Change: description***effective Spring 2009***30 Dance Appreciation, 3 units, 3 lecture hours**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Survey of dance as a historical form of cultural and theatrical expression. Emphasis on the growth of ballet and modern dance from their origins to the current trends in the United States. Dance 30 does not meet the Physical Education requirement. (A, CSU-GE, UC, I)

**Dental Hygiene (DH)****Change: description***effective Spring 2009***1A Oral Biology, 2 units, 2 lecture hours, 1 lab hour, (Fall, first year)**

**Prerequisite:** Admission into the Dental Hygiene Program. Biology 24, with a grade of "C" or better, or Biology 20 and 22, each with a grade of "C" or better. **Corequisite:** Dental Hygiene 3A, 4, and 10.

Anatomy of orofacial structures; study of the physiological and structural functions of the teeth and supporting tissues; embryology and histology of oral structural formation; oral anatomy relative to administration of local anesthetic agents. (A, CSU)

**Change: description***effective Spring 2009***3B Dental Specialties, 1 unit, 2 lecture hours, (9 weeks), (Fall, second year)**

**Prerequisite:** Dental Hygiene 3A and 5A, each with a grade of "C" or better. **Corequisite:** Dental Hygiene 1C, 5B, 6B, and 7A.

The history of dental specialties including pediatric dentistry, orthodontics, periodontics, oral surgery, endodontics, prosthodontics, forensic odontology, and the role of the registered dental hygienist in each dental specialty. Specialties practice research and presentation. (A, CSU)

**Change: prerequisite***effective Spring 2009***4 Oral Radiography, 4 units, 2 lecture hours, 6 lab hours, (Fall, first year)**

**Prerequisite:** Acceptance into the Dental Hygiene program. Biology 31, with a grade of "C" or better. **Corequisite:** Dental Hygiene 3A, 1A, and 10.

**Change: corequisite***effective Spring 2009***5A Clinical Dental Hygiene I, 3 units, 8 lab hours, (Spring, first year), (Pass/No Pass)**

**Prerequisite:** Dental Hygiene 3A and 4, each with a grade of "C" or better. **Corequisite:** Dental Hygiene 1B, 2, 6A, 8A, 11 and 12.

**Change: corequisite***effective Spring 2009***5B Clinical Dental Hygiene II, 5 units, 16 lab hours, (Fall, second year), (Pass/No Pass)**

**Prerequisite:** Dental Hygiene 5A with a "pass" grade. **Corequisite:** Dental Hygiene 1C, 3B, 6B, 7A, and 13.

**Change: corequisite, hours***effective Spring 2009***5C Clinical Dental Hygiene III, 5 units, 16 lab hours, (Spring, second year), (Pass/No Pass)**

**Prerequisite:** Dental Hygiene 5B with a "pass" grade. **Corequisite:** Dental Hygiene 1D, 7B, 8B, 9, and 14.

**Change: prerequisite***effective Spring 2009***7A Community Dental Health I, 2 units, 2 lecture hours, (Fall, second year)**

**Prerequisite:** Dental Hygiene 5A and Psychology 2, each with a grade of "C" or better. **Corequisite:** Dental Hygiene 1C, 3B, 5B, and 6B.

**Change: corequisite** **effective Spring 2009**

**8A Patient Management, 2 units, 2 lecture hours, (Spring, first year)**

**Prerequisite:** Dental Hygiene 3A with a grade of "C" or better. **Corequisite:** Dental Hygiene 1B, 2, 5A, 6A, and 11.

**Change: prerequisite** **effective Spring 2009**

**10 Head and Neck Anatomy, 2 units, 1 lecture hour, 2 lab hours, (Fall, first year)**

**Prerequisite:** Acceptance into the Dental Hygiene Program. Biology 24, with a grade of "C" or better, or Biology 20 and 22, each with a grade of "C" or better. **Corequisite:** Dental Hygiene 1A, 3A, and 4.

**Change: description** **effective Spring 2009**

**12 Clinical Seminar Topics I, 1 unit, 2 lecture hours, (9 weeks)**

**Prerequisite:** Dental Hygiene 3A with a grade of "C" or better. **Corequisite:** Dental Hygiene 5A.

Seminar format with discussion of various topics dealing with beginning clinical practice of dental hygiene. Beginning level decision making, dental hygiene diagnosis, treatment planning, implementation of dental hygiene therapy and problem solving of clinical issues encountered in DH 5A, Clinical Dental Hygiene I. Instrument sharpening, beginning instrument sequencing, periodontal assessment charting, and dental computer technology. (A, CSU)

**Change: description** **effective Spring 2009**

**13 Clinical Seminar Topics II, 1 unit, 2 lecture hours, (9 weeks)**

**Prerequisite:** Dental Hygiene 12. **Corequisite:** Dental Hygiene 5B.

Seminar format with discussion of various topics dealing with intermediate clinical practice of dental hygiene. Intermediate level decision making, clinical judgment, dental hygiene diagnosis, and problem solving of clinical issues encountered in DH 5B, Clinical Dental Hygiene II. Use of diagnostic technology for caries detection, computerized delivery systems for local anesthetics, intermediate instrument sequencing, subgingival irrigation therapy, ultrasonic instrumentation, ergonomics and magnification. (A, CSU)

**Change: advisory** **effective Spring 2009**

**200 Clinical Dental Hygiene IV, 0.2-1 unit, 1.33-8 lab hours, (6 weeks), (Repeats = 3), (Pass/No Pass)**

**Prerequisite:** Graduation from an accredited Dental Hygiene Program. **Advisory:** Dental Hygiene 5C.

## Developmental Services (DEVSER)

**Change: units, hours** **effective Spring 2009**

**252 Workability Strategies and Job Maintenance, 3 units, 2 lecture hours, 3 lab hours, (Pass/No Pass), (Repeats = 3)**

**Change: prerequisite** **effective Spring 2009**

**255 Workability Experience, 1-4 units, 60-240 hours volunteer employment, 75-300 hours paid employment, (Pass/No Pass), (Repeats = 3)**

**Prerequisite:** Student must have a diagnosed disability.

**Change: prerequisite** **effective Spring 2009**

**260 Workability, 3 units, 3 lecture hours, (Pass/No Pass), (Repeats = 3), (Formerly Developmental Services 60)**

**Prerequisite:** Student must have a diagnosed disability.

**Change: repeats** **effective Spring 2009**

**264 Transition to College for Students with Disabilities, 1 unit, 1 lecture hour, (Pass/No Pass), (Repeats = 3)**

**Delete course** **effective Spring 2009**

**265 Individualized Instructional Problems, 1 unit, 3 lab hours, (Pass/No Pass), (Repeats = 3), (Formerly Developmental Services 65)**

**Change: repeats** **effective Spring 2009**

**275 Horticulture Skills I, 2 units, 6 lab hours, (Repeats = 3), (Formerly Developmental Services 75)**

**Change: repeats** **effective Spring 2009**

**276 Horticulture Skills II, 2 units, 6 lab hours, (Repeats = 3), (Formerly Developmental Services 76)**

**Delete course***effective Spring 2009*

**280 Students Understanding College, Careers, Employment, Support, and Success (SUCCESS) Self-Exploration, 3 units, 2 lecture hours, 3 lab hours, (Pass/No Pass), (Repeats = 3), (Formerly Developmental Services 80)**

**Change: title, units, hours, description***effective Spring 2009*

**281 Professional Preparation for Students with Disabilities, 1 unit, 3 lab hours, (Pass/No Pass), (Repeats = 3), (Formerly Developmental Services 81)**

**Prerequisite:** None.

Specifically designed for students with disabilities to job shadow with various community agencies. Emphasis on developing skills in the areas of time management, following directions and instructions, and demonstrating appropriate behaviors in professional social settings.

**Change: description***effective Spring 2009***Change: units, hours***effective Fall 2009*

**282 Greenhouse Workforces Prep, 3 units, 9 lab hours, (Pass/No Pass), (Repeats = 3), (Formerly Developmental Services 82)**

**Prerequisite:** None.

Introduction to vocational training in an actual working greenhouse. Assists students in preparing for success in future employment. Topics include ornamental and vegetable plant growing and care, occupational behavior and interpersonal skill development. Designed for students with mental health, physical, learning and/or developmental disabilities.

**Change: repeats, description***effective Spring 2009*

**291 Strategies for Academic Success, 2 units, 2 lecture hours, (Pass/No Pass), (Repeats = 3)**

**Prerequisite:** None.

Identification of learning strengths and weaknesses, educational, personal, career goals, study principles, methods and strategies to achieve them. Designed for students with communicative, and/or learning disabilities.

**Change: repeats, description***effective Spring 2009*

**292 College Awareness Survival Skills, 2 units, 2 lecture hours, (Pass/No Pass), (Repeats = 3)**

**Prerequisite:** None.

Development of college survival skills. Emphasis on time management, note-taking, test taking, library skills, improvement of communication skills, and career exploration. Designed for students with communicative, and/or a learning disability.

**Change: hours, description***effective Spring 2009*

**359 Differential Learning Diagnosis, 0 units, 8 lab hours, (Pass/No Pass), (Repeats = 3), (Open Entry/Open Exit), (Formerly Developmental Services 59)**

**Prerequisite:** None.

Learning Assessment to identify learning strengths and deficits to provide information to the DSP&S for validation & verification of a disability and accommodations needed. Learning disability assessment to determine eligibility for services in California Community Colleges. Designed for the student with physical, communicative, and/or learning limitations.

**New course***effective Fall 2009*

**377 Transition to Independent Living and Education, 30 lab hours, (48 weeks), (Repeats = 3)**

**Prerequisite:** Student must be a client of Central Valley Regional Center. Students must have a diagnosed verifiable disability.

The purpose of this class is to offer opportunities in independent living skills, basic academics, pre-vocational work preparation skills and planning social leisure activities which will enable students to live independently in the community. This course is designed for individuals with developmental disabilities.

**Drafting (DRAFT)****Change: title, advisory***effective Fall 2009*

**12 Drafting Practices, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 101 or Applied Technology 130 recommended.

**Change: corequisite, description****effective Spring 2009****19 Work Experience (Cooperative), Occupational, 1-8 units, (Repeats = 2)**

**Corequisite:** Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to drafting. Collaborative learning objectives established specific to drafting. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester, 16 units total. May be repeated for not more than 16 units total. (A, CSU)

**ECONOMICS (ECON)****Change: transfer designation****effective Fall 2008****25 Introduction to Economics, 3 units, 3 lecture hours**

(A, CSU-GE)

**Educational Aide (EDA)****Change: corequisite, description****effective Spring 2009****19 Work Experience (Cooperative), Occupational, 1-8 units, (Repeats = 2)**

**Corequisite:** Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 or 68 recommended.

Introduces students to concepts and issues related to teaching diverse learners in contemporary public schools: teacher/education aide success on the job, problem solving, communication skills and collaborative learning objectives established specific to teacher and education aide. School field experience relates to lecture content of Education 30. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester, 16 units total. May be repeated for not more than 16 units total. (A, CSU)

**Educational Aide/Paraeducator (EDAP)****Change: corequisite, description****effective Spring 2009****19 Work Experience (Cooperative), Occupational, 1-8 units, (Repeats = 2)**

**Corequisite:** Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to educational aide/paraeducator. Collaborative learning objectives established specific to educational aide/paraeducator. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester, 16 units total. May be repeated for not more than 16 units total. (A, CSU)

**Electrical Systems Technology (EST)****Change: corequisite, description****effective Spring 2009****19 Work Experience (Cooperative), Occupational, 1-8 units, (Repeats = 2)**

**Corequisite:** Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to electrical systems technology. Collaborative learning objectives established specific to electrical systems technology. Seventy-five hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester, 16 units total. May be repeated for not more than 16 units total. (A, CSU)

**New course****effective Spring 2010****80 Introduction to Energy Systems of Past, Present and Future, 2 units, 2 lecture hours, (Repeats = 3)****Prerequisite:** None.



An introduction to energy systems (transportation, generation, and lifestyle systems) of the past, present and future. Includes the need to evaluate future energy systems for sustainability and their impact on man and the environment. (A, CSU)

**New course****effective Spring 2009****271 Electrical Line/Utility Worker, 12 units, 20.9 lecture hours, 10 lab hours, (9 weeks), (Repeats = 3)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Specific electrical lineworker training to prepare students for direct entry/employment as a "Electrical Utility Worker" leading to an "Apprenticeship Lineworker".

**English (ENGL)****Change: remove pass/no pass, description****effective Fall 2009****125 Writing Skills for College, 4 units, 4 lecture hours, (Formerly English A and 25)**

**Prerequisite:** Designated score on English placement test, or satisfactory completion of English 252 or 282. Not recommended for students learning English as a second language.

Develops the process of writing, revising, and finishing short papers, including logical development and organization of ideas. Emphasizes avoiding common writing errors; develops critical thinking and writing skills by reading model essays by analyzing and utilizing rhetorical strategies appropriate to purpose and audience. Develops basic research skills. Prepares students for English 1A. (A)

**Change: remove pass/no pass****effective Fall 2009****126 Reading Skills for College, 4 units, 4 lecture hours, (Formerly English 26)****Change: hours****effective Spring 2009****277 Reading Skills, 3 units, 2 lecture hours, 2 lab hours, (Pass/No Pass), (Repeats = 3), (Formerly English 77)****Change: hours****effective Spring 2009****278 Paragraph Writing, 3 units, 2 lecture hours, 2 lab hours, (Pass/No Pass), (Repeats = 3), (Formerly English 78)****Change: hours****effective Spring 2009****281 Sentence and Grammar Writing, 3 units, 2 lecture hours, 2 lab hours, (Pass/No Pass), (Repeats = 3), (Formerly English 81)****Change: hours****effective Spring 2009****282 Paragraph Writing, 3 units, 2 lecture hours, 2 lab hours, (Pass/No Pass), (Repeats = 3), (Formerly English 82)****Fashion Merchandising (FM)****Change: corequisite, description****effective Spring 2009****19 Work Experience (Cooperative), Occupational, 1-8 units, (Repeats = 2)**

**Corequisite:** Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to fashion merchandising. Collaborative learning objectives established specific to fashion merchandising. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester, 16 units total. May be repeated for not more than 16 units total. (A, CSU)

**Change: advisory, description****effective Spring 2009****22 Fashion Analysis and Wardrobe Selection, 3 units, 3 lecture hours, (Formerly Retailing Fashion 8)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 101 recommended.

The function of clothing and its relationship to society and to individuals. The sociological, psychological, physical, and aesthetic aspects of apparel. Applied problems included to differentiate individual style needs based upon lifestyle, personal coloring, body proportions, and fashion personality. An introductory course for the

fashion majors, home sewers, costume designers, and consumers seeking to explore apparel which is appropriate for various fashion images. (A, CSU)

**Change: description****effective Spring 2009****25 Professional Image, 3 units, 3 lecture hours, (Formerly Retailing Fashion 12)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Methods for the analysis, selection, coordination, and care of apparel and accessories suitable for the work environment. Topics include color and fabric style considerations for a basic wardrobe, fit and alterations; grooming of hair, nails and skin and business and table etiquette. Specific information for both men and women who seek to update their image. (A, CSU)

**Change: advisory, description****effective Spring 2009****27 Introduction to Fashion Industry, 3 units, 3 lecture hours**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 101 recommended.

Introduce steps in the production of apparel from concept to consumer. Identify skills and education required for careers in the fashion industry including those related to the design, manufacturing, distribution, and retailing of consumable goods. Compare methods of predicting consumer demand, buying, pricing and promoting. Recommended as a transfer course for Clothing and Textile, and fashion majors. (A, CSU)

**Fire Technology (FIRET)****New course****effective Fall 2009****133 Emergency Medical Technician – Paramedic – Didactic, 22 units, 12.5 lecture hours, 11.5 lab hours, (24 weeks)**

**Prerequisite:** Fire Technology 131 or valid EMT 1 certificate.

Produce qualified and competent EMT – Paramedics educated and trained in all elements of prehospital advanced life support to the acutely ill or injured patients; scope of practice is in accordance with Title 22 of the California Code of Regulations. (A)

**New course****effective Fall 2009****134 Emergency Medical Technician – Paramedic – Clinical, 4 units, 1.5 lecture hours, 11.5 lab hours, (15 weeks)**

**Prerequisite:** Fire Technology 133.

Conducted in a hospital environment which consists of rotations in various departments including: emergency, surgery, labor and delivery and pediatrics, specialty units and Advanced Cardiac Life Support (ACLS), certification. Designed to produce qualified EMT – Paramedics who are educated and trained in all elements of prehospital advanced life support to the acutely ill or injured patients, scope of practice is in accordance with Title 22 of the California Code of Regulations. (A)

**New course****effective Fall 2009****135 Emergency Medical Technician – Paramedic – Field Internship, 9 units, 32 lab hours, (15 weeks)**

**Prerequisite:** Fire Technology 133 and Fire Technology 134.

Responds with assigned paramedic preceptors; involved in patient assessment and treatment, designed to produce qualified and competent EMT-Paramedics who are educated and trained in all elements of prehospital advanced life support to the acutely ill or injured patients, in accordance with local protocols and Title 22 of the California Code of Regulations. (A)

**Change: prerequisite****effective Fall 2009****150K Fire Command 1C, 2 units, 8.4 lecture hours, (5 weeks)**

**Prerequisite:** None.

**New course****effective Spring 2010****265 I-300, Intermediate ICS, 1 unit, 3 lecture hours, (7 weeks)**

**Prerequisite:** Permission of the instructor and possession of a I-200 Basic ICS certificate.

ICS fundamentals overview; incident/assessment and agency guidance in establishing incident objectives; unified command; incident resource management; the planning process; demobilization; transfer of command; close out.

## Food Service Management (FSM)

**Change: corequisite, description**

**effective Spring 2009**

### **19 Work Experience (Cooperative), Occupational, 1-8 units, (Repeats = 2)**

**Corequisite:** Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to food service management. Collaborative learning objectives established specific to food service management. Seventy-five hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester, 16 units total. May be repeated for not more than 16 units total. (A, CSU)

## Foreign Languages

### American Sign Language (ASL)

**New course**

**effective Fall 2009**

#### **20 Introduction to Interpreting, 3 units, 3 lecture hours**

**Prerequisite:** American Sign Language 4 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Introduction to the role and responsibilities of interpreters, environments in which interpreters are involved and assessment within the profession. (A, CSU)

**New course**

**effective Fall 2009**

#### **21 American Sign Language to English Translation, 3 units, 3 lecture hours**

**Prerequisite:** American Sign Language 4 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Introduction to the cognitive processing skills and techniques used to translate American Sign Language to English. (A, CSU)

**New course**

**effective Fall 2009**

#### **22 English to American Sign Language Translation, 3 units, 3 lecture hours**

**Prerequisite:** American Sign Language 4 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Introduction to the basic translation skills from English to American Sign Language that focus on message analysis, transfer and reformulation without the pressures of simultaneity. (A, CSU)

## CHINESE (CHIN)

**Change: transfer designation**

**effective Fall 2008**

#### **3 Intermediate Chinese, 4 units, 3 lecture hours, 2 lab hours**

(A, CSU, UC, I)

**Change: transfer designation**

**effective Fall 2008**

#### **4 High-Intermediate Chinese, 4 units, 3 lecture hours, 2 lab hours**

(A, CSU, UC, I)

**Change: transfer designation**

**effective Fall 2008**

#### **5 Chinese Short Stories and Culture, 3 units, 3 lecture hours, 1 lab hour**

(A, CSU, UC, I)

## Portuguese (PORT)

**New course**

**effective Fall 2009**

#### **1 Beginning Portuguese, 4 units, 3 lecture hours, 2 lab hours**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

First semester Portuguese listening, speaking, grammar, writing, reading, and vocabulary, Portuguese and Brazilian culture. (A, CSU-GE)

**New course****effective Fall 2009****2 High-Beginning Portuguese, 4 units, 3 lecture hours, 2 lab hours**

**Prerequisite:** Portuguese 1, or two years of high school Portuguese or equivalent. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Second semester Portuguese listening, speaking, grammar, reading, writing, and vocabulary, Portuguese and Brazilian culture. (A, CSU-GE)

**New course****effective Fall 2009****3 Intermediate Portuguese, 4 units, 3 lecture hours, 2 lab hours**

**Prerequisite:** Portuguese 2 or three years of high school Portuguese, or equivalent (extensive living experience with the language). **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Third semester Portuguese listening, speaking, grammar, reading, writing, vocabulary, and Portuguese and Brazilian culture. (A, CSU-GE)

**New course****effective Fall 2009****4 High-Intermediate Portuguese, 4 units, 3 lecture hours, 2 lab hours**

**Prerequisite:** Portuguese 3, or three years of high school Portuguese, or the equivalent (extensive living experience with the language). **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Fourth semester Portuguese listening, speaking, grammar, reading, writing, vocabulary, and Brazilian/Portuguese culture. (A, CSU-GE)

**Spanish (SPAN)****New course****effective Summer 2009****13 Cultural Overview of a Spanish-Speaking Country, 2 units, 2 lecture hours**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Cultural overview of a Spanish-speaking country and their roots in pre-Hispanic civilization. Designed for students enrolled in the Summer Study Abroad Program in a Spanish-speaking country. (A, CSU)

**Geography (GEOG)****Change: advisory****effective Fall 2009****10 Introduction to GIS, 3 units, 2 lecture hours, 4 lab hours**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 101 recommended. Computer Information Technology 15 is desirable.

**Geology (GEOL)****New course****effective Fall 2009****3 Geology Field Studies, 1-2 units, .5-1 lecture hour, 1-2 lab hours, (Repeats = 3)**

**Prerequisite:** Geology 1. **Advisory:** Eligibility of English 125 and 126 or English as a Second Language recommended.

Geology field studies of a classic geologic location, such as Death Valley, Eastern Sierra, Lassen, Kings Canyon, San Andreas Fault, etc. Required camping field trips. Additional costs for food, campground, and entrance fee. (A, CSU)

**Change: description****effective Fall 2009****9 Introduction to Earth Science, 3 units, 2 lecture hours, 2 lab hours**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Introduction to the earth sciences with an emphasis on basic topics and principles in geology, oceanography, meteorology, and astronomy. Optional field trips. For transfer Liberal Studies students. (A, CSU, UC)

## **Graphic Communications (GRC)**

**Change: description** **effective Spring 2009**  
**5 Introduction to Macintosh Computer Use, 1 unit, 2 lecture hours, (9 weeks), (Repeats = 3), (Formerly Printing Technology 5)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Introduction to Macintosh computer features and associated software. Systematic operation of filing structure and introductory assignments. (A, CSU)

**Change: description** **effective Spring 2009**  
**10 Introduction to Graphic Communications, 2 units, 2 lecture hours, (Repeats = 3), (Formerly Printing Technology 10)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 101 recommended.

Introduction to graphic communications methodology via print, web, and multimedia formats. History, requirements, limitations of production techniques, demonstrations, discussion, and basic project work. (A, CSU)

**Change: title, units, hours, weeks** **effective Spring 2009**  
**13 Introduction to Image Capture/Scanning, 1 unit, 2 lecture hours, (9 weeks), (Repeats = 3), (Formerly Printing Technology 13)**

**Change: title** **effective Spring 2009**  
**14 Adobe Acrobat Professional, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)**

**Change: description** **effective Spring 2009**  
**15 Web Page Construction 1, 4 units, 3 lecture hours, 3 lab hours, (Repeats = 3)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 101 recommended.

Adobe Dreamweaver, CSS and traditional construction methods for web page and web site generation. Components of Fireworks and Photoshop included in exercises and project work. Students create web sites and post them online. (A, CSU)

**Change: title, prerequisite, description** **effective Spring 2009**  
**16 Web Design, 4 units, 3 lecture hours, 3 lab hours, (Repeats = 3),**

**Prerequisite:** Graphic Communications 15 or permission of instructor. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 101 recommended.

Adobe Dreamweaver, Fireworks, Photoshop and other supporting software for use in advanced web page design and site production methods. Project work includes dynamic elements, audio and video components. Students create and post web sites. (A, CSU)

**Change: title, description** **effective Spring 2009**  
**17 Adobe Illustrator, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3), (Formerly Printing Technology 17)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 101 recommended.

Adobe Illustrator program for vector image development. Hands-on work creating projects for reproduction. (A, CSU)

**Change: title, advisory, description** **effective Spring 2009**  
**18 Production Methods, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 101 recommended.

Production methods of graphic communications systems with emphasis on print media. Project work explores considerations and limitations of software for output using the printing process. (A, CSU)

**Change: corequisite, description** **effective Spring 2009**  
**19 Work Experience (Cooperative), Occupational, 1-8 units, (Repeats = 2)**

**Corequisite:** Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to graphic communications. Collaborative learning objectives established specific to graphic communications. Seventy-five hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester, 16 units total. May be repeated for not more than 16 units total. (A, CSU)

**Change: title, description** **effective Spring 2009**

**20 Graphic Communications, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3), (Formerly Printing Technology 20)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 101 recommended.

Overview of graphic communication processes as related to the printing industry. Terminology, input/output considerations, current trends, and hands-on projects using each of the three major types of software; illustration, page layout, and image adjustment. (A, CSU)

**Change: advisory, description** **effective Spring 2009**

**22 Multimedia 1, 4 units, 3 lecture hours, 3 lab hours, (Repeats = 3)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 101 recommended.

Introduction to multimedia. Project work using an assortment of current software. Combine images, audio and video into cross-platform productions. DVD authoring, podcasting, slide shows, image capture, and short films. (A, CSU)

**Change: title** **effective Spring 2009**

**23 Multimedia 2, 4 units, 3 lecture hours, 3 lab hours, (Repeats = 3)**

**Change: description** **effective Spring 2009**

**24 Flash Animation, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 101 recommended.

Adobe Flash animation program for multimedia. Design and production of interactive projects. Components from image adjustment and draw programs. (A, CSU)

**Change: title, description** **effective Spring 2009**

**25 Specialized Web Techniques, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 101 recommended.

Techniques, tips, and tricks and software products to help the web designer. Opportunities to work with new technologies and methods of deploying content over the Internet. Fulfills computer literacy graduation requirement. (A, CSU)

**Change: description** **effective Spring 2009**

**27 Digital Video Production, 4 units, 3 lecture hours, 3 lab hours, (Repeats = 3)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 101 recommended.

Introduction to digital video production with emphasis on editing techniques. Units include planning, storytelling, vocabulary, camera handling, lighting, sound, logging/capturing, and working with professional editing software. Students complete short exercises and create video projects. Fulfills computer literacy graduation requirement. (A, CSU)

**New course** **effective Spring 2009**

**28 Independent Study – Graphics, 1-3 units, 3-9 lab hours, (Repeats = 3)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 101 recommended.

Individual graphic projects designed to allow the student to expand on a specific area of previous study. The production of a pre-employment portfolio with field trips to professional studios, shops, television stations, newspapers or galleries. (A, CSU)

**Change: title, description** **effective Spring 2009**

**30 Adobe InDesign/Professional Publishing, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3), (Formerly Printing Technology 30)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 101 recommended.

Adobe InDesign page layout software. Emphasis on output for print technology, with multimedia inclusion. Components from image adjustment and draw programs. Fulfills computer literacy graduation requirement. (A, CSU)

**New course****effective Spring 2009****31 Photoshop for Graphics, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 101 recommended.

Adobe Photoshop with emphasis on graphic design and production. Units include print, web, multimedia, and video application. (A, CSU)

**New course****effective Spring 2009****32 Video Techniques, 4 units, 3 lecture hours, 3 lab hours, (Repeats = 3)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 101 recommended.

Production processes and non-linear editing style in greater detail than offered in Graphic Communications 27. Project work with attention to detail in all phases of production. Color correction, lighting, audio, and legal issues. (A, CSU)

**New course****effective Spring 2009****33 Flash for the Web, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 101 recommended.

Adobe Flash software for web site publishing. Design, completion and posting of interactive web site. Components from Photoshop and Fireworks image adjusting, Illustrator draw program, and Dreamweaver web page generating software applications. (A, CSU)

**New course****effective Spring 2009****34 Introduction to 3-D Animation, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 101, and Graphic Communications 24 recommended.

Introduction to 3-D animation using Swift 3-D software. Projects dealing with workflow, interface, layouts, objects, lighting, animation, and rendering. (A, CSU)

**Change: prerequisite, description****effective Spring 2009****39A Graphic Design I, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3), (Formerly Printing Technology and Graphic Communications 39)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 101 recommended.

Principles and methods of graphic communication. Projects incorporate symbols and typography into visual design, exploring interrelationships between formal elements and symbolic content. (A, CSU)

**Change: prerequisite, units, hours, weeks****effective Spring 2009****40A Graphic Design II, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3), (Formerly Printing Technology and Graphic Communications 40)**

**Prerequisite:** Graphic Communications 39A.

**Health Information Technology (HIT)****Change: title, description****effective Fall 2009****1 Introduction to Health Information Management, 3 units, 3 lecture hours, (Formerly Medical Record Technology 1)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Introduction to health care delivery systems, hospital organization, the medical record, the processes of health information management including access, retention, data collection, quantitative and qualitative analysis, and computerized health information systems; accreditation, licensure, and regulatory requirements; the role of the health information management professional. (A, CSU)

**Change: description****effective Fall 2009****2 Legal Aspects of Health Information, 2 units, 2 lecture hours, (Formerly Medical Record Technology 2)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Legal basis for the control, use and release of health information; concepts of consent for treatment and other procedures; HIPAA privacy and security rules; federal and state laws and regulations governing the handling of special health information; ethical practices in health information; procedures used in responding to requests for health information. (A, CSU)

**Change: description**

**effective Fall 2009**

**3 Quality Improvement, 2 units, 2 lecture hours, (Formerly Medical Record Technology 3)**

**Prerequisite:** Health Information Technology 1 and Computer Information Technology 15. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

History and development of quality improvement efforts in health care; quality assessment techniques and processes; software tools for data collection and reporting; roles and responsibilities of individuals involved in quality improvement; medical staff organization; peer review, utilization review, and risk management. (A, CSU)

**Change: prerequisite, advisory, description**

**effective Fall 2009**

**4 Disease Process, 3 units, 3 lecture hours**

**Prerequisite:** Health Information Technology 10 and Biology 5. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

General principles of pathophysiology; systematic study of symptoms, signs, etiologic factors, course, complications, prognosis and prevention of human disease; the modern practices of diagnosis and treatment. (A, CSU)

**Change: corequisite, description**

**effective Fall 2009**

**5 Introduction to Coding, 3 units, 3 lecture hours**

**Prerequisite:** Health Information Technology 10. **Corequisite:** Health Information Technology 4. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Introduction to ICD-9-CM code assignment; rules, principles, guidelines, and conventions; state and federal regulations; documentation to support coding; manual and electronic coding applications. Review of other systems used in health care: DSM, SNOMED, ICD-O, and ICD-10-CM. This is the first of a two-course sequence. (A, CSU)

**Change: description**

**effective Fall 2009**

**6 Coding and Reimbursement, 3 units, 3 lecture hours, (Formerly Medical Record Technology 6)**

**Prerequisite:** Health Information Technology 5. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Advanced ICD-9-CM code assignment. Emphasis on case studies, health records, and federal regulations regarding prospective payment systems and methods of billing and reimbursement. Second of a two-course sequence. (A, CSU)

**Change: prerequisite, repeats, description**

**effective Fall 2009**

**7 Directed Practice, 5 units, 1 lecture hour, 12 lab hours, (Pass/No Pass)**

**Prerequisite:** Health Information Technology 3 and 6. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Practical application of advanced principles and practices of health information technology in a real or simulated work setting; supervised onsite experience performing HIT competencies in an affiliated healthcare organization. (A, CSU)

**Change: description**

**effective Fall 2009**

**8 Health Information Management and Supervision, 3 units, 3 lecture hours**

**Prerequisite:** Health Information Technology 1. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Effective management of technical and human factors in health information services: planning, organizing, budgeting, strategic planning, work space design, recruitment, selection, training and development, evaluation, compensation, and labor relations. (A, CSU)

**Change: description**

**effective Fall 2009**

**9 Hospital and Health Statistics, 2 units, 2 lecture hours**

**Prerequisite:** Computer Information Technology 15 and Health Information Technology 1. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.



Basic hospital and health statistics including the sources, definitions, and calculations of common rates and percentages. Computerized and manual methods for collections, computation and presentation. Review of regulatory, accreditation, and vital statistics reporting; health care research data. (A, CSU)

**Change: units, hours, description**

**effective Fall 2009**

**11 CPT Coding, 3 units, 3 lecture hours**

**Prerequisite:** Health Information Technology 11. **Corequisite:** Health Information Technology 4.

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Common Procedural Terminology (CPT) coding; Healthcare Common Procedure Coding System (HCPCS), and Ambulatory Pay Classification (APCs); emphasis on application of coding conventions and guidelines, application to billing processes and reimbursement issues; use of manual and electronic coding systems. (A, CSU)

**New course**

**effective Fall 2009**

**14 HIM Technology and Systems, 3 units, 3 lecture hours**

**Prerequisite:** Health Information Technology 1 and Computer Information Technology 15. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Computer applications and information systems used in healthcare and health information management; system development, implementation, and analysis; data retrieval and reporting; HER migration and implementation. (A, CSU)

**Delete course**

**effective Fall 2009**

**Change: corequisite, description**

**effective Spring 2009**

**19 Work Experience (Cooperative), Occupational, 1-8 units, (Repeats = 2)**

**Corequisite:** Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to health information technology. Collaborative learning objectives established specific to health information technology. Seventy-five hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester, 16 units total. May be repeated for not more than 16 units total. (A, CSU)

## **HONORS (HONORS)**

**New course**

**effective Fall 2009**

**SOC 1AH Honors Introduction to Sociology, 3 units, 3 lecture hours**

**Advisory:** Meet the qualifications for consideration for acceptance into the Honors Program recommended. See Honors Program listing in college catalog.

Basic concepts, theoretical approaches, and methods of sociology. Analysis and explanation of social systems, socialization, and self, institutions, stratification, inter/intra-group dynamics, multi-/cross-cultural relations, demography, deviance, collective behavior, social change, and global trends. The Honors section of this course places a greater emphasis on methods of conducting scientific research in the field of Sociology. Additional emphasis is placed on contemporary social issues as explored through supplemental readers or texts. (A, CSU)

## **Human Services (HS)**

**Change: corequisite, description**

**effective Spring 2009**

**19A Work Experience (Cooperative), Occupational, 1-8 units, (Repeats = 2)**

**Prerequisite:** Human Services 20. **Corequisite:** Human Services 24. Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to human services. Collaborative learning objectives established specific to human services. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester, 16 units total. May be repeated for not more than 16 units total. (A, CSU)

**Change: corequisite, description****effective Spring 2009****19B Work Experience (Cooperative), Occupational, 1-8 units, (Repeats = 2)**

**Prerequisite:** Human Services 42 and 43. **Corequisite:** Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to human services. Collaborative learning objectives established specific to human services. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester, 16 units total. May be repeated for not more than 16 units total. (A, CSU)

**Industrial Training CTC (ITCTC)****Change: hours, weeks, open entry/open exit, corequisite, description****effective Fall 2009****371 Warehouse and Distribution Careers, 3 lecture hours, 6 lab hours, (12 weeks), (108 total hours), (Repeats = 3), (Formerly Industrial Training VTC 71)**

**Corequisite:** Industrial Training CTC 372.

Forklift safety and operation skills necessary for employment, inventory and warehouse procedures utilizing computer based program, applied mathematics, warehouse equipment like strapping and pallet jack.

**New course****effective Fall 2009****372 Warehouse and Distribution Careers, 3 lecture hours, 6 lab hours, (12 weeks), (108 total hours), (Repeats = 3)**

**Corequisite:** Industrial Training CTC 371.

Forklift safety and operation skills necessary for employment, inventory and warehouse procedures utilizing computer based program, applied mathematics, warehouse equipment like strapping and pallet jack.

**Interdisciplinary Studies (INTDS)****Change: subject, number, title, hours, corequisite, advisory, description****effective Fall 2009****1 Museum Studies, 3 units, 3 lecture hours, (Formerly Anthropology 7)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Survey of museum practice with introduction to history and ethics of acquisition; methods of museum and collections management, exhibit development, and museum administration. (A, CSU)

**Journalism (JOURN)****Change: transfer designation****effective Fall 2008****16 Race, Gender and the Media, 3 units, 3 lecture hours**

(A, CSU-GE, UC, I)

**New course****effective Spring 2010****19 Work Experience (Cooperative), Occupational, 1-8 units, (Repeats = 2)**

**Corequisite:** Fall and Spring Semesters: Must be enrolled in at least one other course, including occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to the student's major. Collaborative learning objectives established specific to journalism. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester, 16 units total. May be repeated for not more than 16 units total. (A, CSU)

## Latin American Studies (LAST)

### *New course*

*effective Fall 2009*

#### **10 Latin American Literature, 3 units, 3 lecture hours**

**Advisory:** Eligibility for English 1A.

Representative works of various countries to show Latin American literature in its social, political and economic context. Historical coverage from pre-Columbian American peoples to contemporary writers. Course conducted in English. (A, CSU-GE, UC approved as a variable topic; evaluation completed by individual campuses after admission.)

## Library Skills (LIBSKL)

### *Change: repeats*

*effective Fall 2009*

#### **1 Information Competency/Research Skills, 1 unit, 1 lecture hour**

### *Change: repeats, description*

*effective Fall 2009*

#### **2 Information and Computer Literacy, 3 units, 3 lecture hours**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

In-depth research skills for college students, including the concept of information, its organization, location, evaluation, and use. General computer/technology concepts, email, and navigating the World Wide Web. Fulfills the computer literacy graduation requirement. (A, CSU)

### *Delete course*

*effective Fall 2009*

#### **19 Work Experience (Cooperative), Occupational, 1-8 units, (Repeats = 2)**

## Library Technology (LITEC)

### *Delete course*

*effective Fall 2009*

#### **19 Work Experience (Cooperative), Occupational, 1-8 units, (Repeats = 2)**

### *Change: description*

*effective Fall 2009*

#### **51 Introduction to Library Service, 3 units, 3 lecture hours**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Explores the general organization of various types of libraries and their materials; library service from past to present and its role in society; basic duties of the library paraprofessional. (A, CSU)

### *Change: advisory, description*

*effective Fall 2009*

#### **52 Library Technical Services, 3 units, 3 lecture hours**

**Advisory:** Library Technology 51 recommended.

Library technical services, acquisitions and processing of materials, cataloging of materials, Library of Congress and Dewey classification systems, and integrated library systems. (A, CSU)

### *Change: advisory, description*

*effective Fall 2009*

#### **54 Literature and Services for Youth, 3 units, 3 lecture hours**

**Advisory:** Library Technology 51 recommended.

Library services to children and young adults in the areas of literature, collection development, information services and programs. (A, CSU)

### *Change: description*

*effective Fall 2009*

#### **55 Library Public Service, 3 units, 3 lecture hours**

**Advisory:** Library Technology 51 recommended.

Library services offered to the public, including readers' advisory, interlibrary loan, copyright issues, publicity, displays, public relations, conflict resolution, library security, overview of supervision, collection development, stack maintenance, and materials circulation policies and procedures. (A, CSU)

**Change: advisory, description****effective Fall 2009****56 Information Technology, 3 units, 3 lecture hours****Advisory:** Library Technology 51 recommended.

Use and management of computers, computer networks, non-print materials and emerging technologies used in libraries. (A, CSU)

**Change: hours, advisory, description****effective Fall 2009****57 Reference: Print and Online Sources, 3 units, 3 lecture hours****Advisory:** Library Technology 51 recommended.

Library reference services, research methodologies, standard reference sources, utilization of print, non-print and electronic format sources; reference interview techniques and style; collection development issues related to library reference services. (A, CSU)

**Delete course****effective Fall 2009****60 Library Technology Capstone, 1 unit, 2 lecture hours, (9 weeks)****Maintenance Mechanic CTC 370 (MMCTC)****Change: description****effective Fall 2009****370 Fundamentals of Welding and Machine Shop, 10 lecture hours, 20 lab hours, (10 weeks), (300 total hours), (Repeats = 3), (Formerly Maintenance Mechanic VTC 70)****Prerequisite:** None.

Basic gas, arc, MIG, TIG (mild steel). Precision measurement, hand tools, engine lathe, drilling, milling.

**Change: description****effective Fall 2009****371 Fundamentals of Hydraulics and Pneumatics, 10 lecture hours, 20 lab hours, (10 weeks), (300 total hours), (Repeats = 3), (Formerly Maintenance Mechanic VTC 71)****Prerequisite:** None.

Hydraulic and pneumatic principles, pumps, actuators, valves, schematics, operating systems.

**Change: description****effective Fall 2009****372 Electrical Fundamentals, 10 lecture hours, 20 lab hours, (10 weeks), (300 total hours), (Repeats = 3), (Formerly Maintenance Mechanic VTC 72)****Prerequisite:** None.

Electrical principles, AC/DC circuits, motors, motor starters, relays, wiring, troubleshooting, schematic reading, test instruments, Variable Speed Drives.

**Marketing (MKTG)****Change: corequisite, description****effective Spring 2009****19 Work Experience (Cooperative), Occupational, 1-8 units, (Repeats = 2)****Corequisite:** Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors...

Supervised employment extending the classroom based on occupational learning related to marketing. Collaborative learning objectives established specific to marketing. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester, 16 units total. May be repeated for not more than 16 units total. (A, CSU)

**Medical Assisting (MA)****Change: advisory, description****effective Spring 2009****4 Office Laboratory Procedures, 4 units, 3 lecture hours, 3 lab hours****Advisory:** Biology 5 or equivalent recommended. Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 250 or 260A-260D recommended.

Preparation of patient specimens for laboratory study and/or transportation. Specimen screening analysis techniques, recording of findings, regulations, and safety hazards. Precautionary measures relevant to specimen handling, personal and patient safety. (A, CSU)

**Change: advisory** **effective Spring 2009**  
**5 Diagnostic and Therapeutic Procedures, 4 units, 3 lecture hours, 3 lab hours**  
**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 250 or 260A-260D recommended.

**Change: advisory** **effective Spring 2009**  
**6B Advanced Training, 3 units, 3 lecture hours, (Formerly Medical Assisting 60B)**  
**Prerequisite:** Medical Assisting 6A. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

**Correct: corequisite, description**

**19 Work Experience (Cooperative), Occupational, 1-8 units, (Repeats = 2)**

**Corequisite:** Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors...

Supervised employment extending the classroom based on occupational learning related to medical assisting. Collaborative learning objectives established specific to medical assisting.. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester, 16 units total. May be repeated for not more than 16 units total. (A, CSU)

## **MUSIC (MUS)**

**Change: transfer designation** **effective Fall 2008**  
**17 History of Rock, 3 units, 3 lecture hours**  
 (A, CSU-GE, UC, I)

**Change: transfer designation** **effective Fall 2008**  
**53 Latin Jazz Workshop, 2 units, 1 lecture hour, 3 lab hours**  
 (A, CSU, UC)

**Change: transfer designation** **effective Fall 2008**  
**90 Jazz Composer's Workshop, 2 units, 1 lecture hour, 4 lab hours**  
 (A, CSU, UC)

**Change: transfer designation** **effective Fall 2008**  
**91 Jazz Composer's Ensemble, 2 units, 1 lecture hour, 4 lab hours**  
 (A, CSU, UC)

**Change: transfer designation** **effective Fall 2008**  
**92 Vocal Jazz Ensemble, 2 units, 1 lecture hour, 4 lab hours**  
 (A, CSU, UC)

## **Nursing, Registered (RN) \*\*Pending BRN Approval**

**Delete course** **effective Spring 2010**  
**3 Intermediate Medical-Surgical Nursing, 2.5 units, 5 lecture hours (9 weeks)**

**Delete course** **effective Spring 2010**  
**4 Intermediate Medical-Surgical Nursing Clinical, 2.5 units, 15 lab hours (9 weeks)**

**Change: corequisite, description** **effective Spring 2009**  
**19 Work Experience (Cooperative), Occupational, 1-8 units, (Repeats = 2)**

**Corequisite:** Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Must be currently enrolled in the Associate Degree Nursing Program.

Supervised employment extending the classroom based on occupational learning related to nursing. Collaborative learning objectives established specific to nursing. Seventy-five (75) hours of paid work per unit per semester. Maximum of 8 units per semester, 16 units total. May be repeated for not more than 16 units total. (A, CSU)

**Change: prerequisite** **effective Fall 2009**

**Change: number, title, units, hours, prerequisite, corequisite, description** **effective Spring 2009**

**31 Foundations and Introduction to Medical Surgical Nursing, 4 units, 4 lecture hours, (Formerly Registered Nursing 1)**

**Prerequisite:** Acceptance into the Registered Nursing Program: English 1A; Mathematics 103; Biology 20 and Biology 22; Biology 31; Chemistry 3A; Psychology 2; and Sociology 1A or Anthropology 2. All course work must be completed with a grade of "C" or better. **Corequisite:** Registered Nursing 32 and 32A.

Introduction to registered nursing; the roles of the registered nurse, the nursing process, critical thinking, theoretical concepts and principles necessary to administer beginning level assessment and interventions (procedures) for adults. (A, CSU)

**Change: prerequisite**

**effective Fall 2009**

**Change: number, title, units, hours, pass/no pass, prerequisite, corequisite, desc.** **effective Spring 2009**

**32 Foundations and Introduction to Medical Surgical Nursing Clinical, 2 units, 6 lab hours, (Formerly Registered Nursing 2)**

**Prerequisite:** Registered Nursing 32A. **Corequisite:** Registered Nursing 31.

Clinical experiences to provide application of the nursing process, critical thinking, knowledge and basic skills necessary to administer beginning level assessment and interventions (procedures) for adults. (A, CSU)

**Change: prerequisite, corequisite, advisory**

**effective Fall 2009**

**New course**

**effective Spring 2009**

**32A Foundations and Introduction to Medical Surgical Nursing Skills, 2 units, 6 lab hours**

**Prerequisite:** Acceptance into the Registered Nursing Program: English 1A; Mathematics 103; Biology 20 and Biology 22; Biology 31; Chemistry 3A; Psychology 2; and Sociology 1A or Anthropology 2. All course work must be completed with a grade of "C" or better. **Corequisite:** Registered Nursing 31.

Basic nursing skills performance in a simulated clinical environment for the beginning nursing student. (A, CSU)

**Change: number, hours, weeks, corequisite, prerequisite, description**

**effective Spring 2009**

**33 Transcultural Health Care, 1 unit, 1 lecture hour, (Formerly Registered Nursing 21)**

**Corequisite:** Registered Nursing 31.

Cultural and spiritual concepts as they relate to the application of nursing care. (A, CSU)

**New course**

**effective Spring 2009**

**35A Pharmacology A: Introduction to Pharmacology, 1 unit, 1 lecture hour**

**Corequisite:** Registered Nursing 31, 32, and 32A.

General principles of pharmacology, legal, ethical and safety aspects of medication administration. Drug information includes pharmacotherapeutics, pharmacodynamics, pharmacokinetics, contraindications and precautions, adverse effects and drug interactions, as well as client variables such as health status, life span and gender, diet, lifestyle and habits, environment, and culture in relationship to drug therapy. (A, CSU)

**New course**

**effective Fall 2009**

**35B Pharmacology B: Nursing Pharmacological Applications, 2 units, 2 lecture hours**

**Prerequisite:** Registered Nursing 35A with a grade of "C" or better. **Corequisite:** Registered Nursing 41, 42, and 42A.

Methodical application of drug information that impacts physiologic body systems including contraindications and precautions, adverse effects and drug interactions. Emphasis is placed on nursing responsibilities such as maximizing therapeutic effects and minimizing adverse effects of drug therapy, appropriate client and family teaching, and ongoing assessment of the client. (A, CSU)

**New course**

**effective Fall 2009**

**41 Nursing Care of the Adult with Common Health Problems, 2.5 units, 2.5 lecture hours**

**Prerequisite:** Registered Nursing 31 and 35A with a grade of "C" or better. **Corequisite:** Registered Nursing 35B, 42 and 42A.

Theoretical concepts related to the registered nurse caring for the adult client with common health problems. Through utilization of the nursing process, the student will recognize alterations in functioning or illness and formulate client specific nursing interventions. (A, CSU)

**New course**

**effective Fall 2009**

**42 Nursing Care of the Adult with Common Health Problems Clinical, 2 units, 6 lab hours**

**Prerequisite:** Registered Nursing 31, 32, 32A, and 35A with a grade of "C" or better. **Corequisite:** Registered Nursing 35B, 41, and 42A.

Nursing care of the adult with common health problems in the acute care setting. Implementation of psychomotor skills associated with implementing client care, medication administration, and intravenous therapy. (A, CSU)

**New course**

**effective Fall 2009**

**42A Nursing Care of the Adult with Common Health Problems Skills, 1 unit, 3 lab hours**

**Prerequisite:** Registered Nursing 31, 32 and 32A with a grade of "C" or better. **Corequisite:** Registered Nursing 41 and 42.

Basic nursing skills performance in a simulated clinical environment for the registered nursing student caring for adults with common health problems. (A, CSU)

**Change: number, title, units, hours, weeks, prerequisite, corequisite, description** **effective Fall 2009**

**45 Nursing Care of the Childbearing Family Theory, 2 units, 2 lecture hours, (Formerly Registered Nursing 5)**

**Prerequisite:** Registered Nursing 31, 32, 32A, 33, and 35A with a grade of "C" or better. **Corequisite:** Registered Nursing 46.

Family centered nursing approach to the child bearing cycle, birth, the neonate, and family bonding; physiology of pregnancy, labor, and recovery. (A, CSU)

**Change: number, title, hours, weeks, prerequisite, corequisite**

**effective Fall 2009**

**46 Nursing Care of the Childbearing Family Clinical, 2 units, 6 lab hours, (Formerly Registered Nursing 6)**

**Prerequisite:** Registered Nursing 31, 32, 32A, 33 and 35A with a grade of "C" or better. **Corequisite:** Registered Nursing 45.

Clinical application of the principles and practices of nursing care of the child bearing family surrounding the ante-, intra-, and postpartum physical and psychosocial adaptations. (A, CSU)

**Delete course**

**effective Spring 2009**

**50 Fundamentals of Perioperative Nursing, 2 units, 8 lecture hours, (5 weeks), (Pass/No Pass), (Repeats = 2)**

**New course**

**effective Spring 2010**

**51 Nursing Care of the Adult with Complex Health Problems, 2.5 units, 2.5 lecture hours**

**Prerequisite:** Registered Nursing 35B, 41, 42, and 42A with a grade of "C" or better. **Corequisite:** Registered Nursing 52, 52A and 53.

Synthesize and correlate nursing knowledge and skills in providing care to adults who have complex, multi-system illnesses. Focus will be for the registered nursing students to predict client needs and priorities, and evaluate outcomes on care. (A, CSU)

**New course**

**effective Spring 2010**

**52 Nursing Care of the Adult and Older Adult with Complex Health Problems Clinical, 2 units, 6 lab hours**

**Prerequisite:** Registered Nursing 35B, 41, 42, and 42A with a grade of "C" or better. **Corequisite:** Registered Nursing 51, 52A, and 53.

Nursing care of the adult and older adult client with complex health problems in the acute hospital setting and community based support agencies. (A, CSU)

**New course**

**effective Spring 2010**

**52A Nursing Care of the Adult and Older Adult with Complex Health Problems Skills, 0.5 units, 1.5 lab hours**

**Prerequisite:** Registered Nursing 41, 42 and 42A with a grade of "C" or better. **Corequisite:** Registered Nursing 51, 52 and 53.

Advanced nursing skills performance in a simulated clinical environment for the advanced nursing student caring for the adult and older adult with complex health problems. (A, CSU)

**New course**

**effective Spring 2010**

**53 Nursing Care of the Older Adult, 1.5 units, 1.5 lecture hours**

**Prerequisite:** Registered Nursing 35B, 41, and 42 with a grade of "C" or better. **Corequisite:** Registered Nursing 51, 52, and 52A.

Theoretical concepts of the aging process and the Registered Nurse's role in meeting the needs of older adult clients in the community and acute care settings. (A, CSU)

**Change: number, title, hours, weeks, prerequisite, corequisite, description** **effective Spring 2010**  
**55 Nursing Care of Infants and Children, 2 units, 2 lecture hours, (Formerly Registered Nursing 13)**

**Prerequisite:** Registered Nursing 41, 42, 42A, 35B, 45 and 46 with a grade of "C" or better.

**Corequisite:** Registered Nursing 56.

Theoretical concepts and integration of the nursing process as it relates to the nursing care of infants, children, and their families. Emphasis is on the concepts and skills related to age appropriate family centered care. (A, CSU)

**Change: number, title, hours, weeks, prerequisite, corequisite, description** **effective Spring 2010**  
**56 Nursing Care of Infants and Children Clinical, 2 units, 6 lab hours, (Formerly Registered Nursing 14)**

**Prerequisite:** Registered Nursing 35B, 41, 42, 42A, 45 and 46 with a grade of "C" or better.

**Corequisite:** Registered Nursing 55.

Clinical application of the nursing process when caring for infants, children, and their families in a pediatric setting. Clinical experience will take place in the acute care setting on pediatric medical-surgical units and various specialty units. (A, CSU)

**New course** **effective Summer 2009**  
**101 Transition to Fresno City College Registered Nursing Program, 1.5 units, 1.5 lecture hours**

**Corequisite:** Registered Nursing 102.

Required for all students entering the Fresno City College Registered Nursing Program as an advanced placement student including LVN to RN and transfer students from other nursing programs. Focus on the theory and application of concepts of physical assessment, the nursing process, critical thinking, and the relationship of homeostatic mechanisms to fluids and electrolytes and nursing competencies in the professional roles of clinician, teacher, leader and advocate. (A)

**New Course** **effective Summer 2009**  
**102 Transition to Fresno City College Registered Nursing Program Skills, 1-2 units, 3-6 lab hours**

**Corequisite:** Registered Nursing 101.

Required for all students entering the Fresno City College Registered Nursing Program as an advanced placement student including LVN to RN and transfer students from other nursing programs. Focus on skills acquisition and validation prior to entering the hospital setting. (A)

**Change: number, hours, weeks, corequisite** **effective Spring 2009**  
**105 Medication Math, 0.5 units, 0.5 lecture hours, (Formerly Registered Nursing 23)**

**Corequisite:** Registered Nursing 31.

**Change: number, hours, weeks, corequisite** **effective spring 2009**  
**107 Introduction to Nursing Process, 0.5 units, 0.5 lecture hours, (Formerly Registered Nursing 25)**

**Corequisite:** Registered Nursing 31.

**Delete course** **effective Spring 2009**  
**151 Perioperative Nursing Clinical, 1 unit, 4 lab hours, (14 weeks), (Pass/No Pass), (Repeats = 2)**

**Change: corequisite** **effective Fall 2010**  
**201 NCLEX-RN Review, 2 units, 2 lecture hours, (Pass/No Pass), (Repeats = 2)**

**Corequisite:** Registered Nursing 61.

**New course** **effective Spring 2009**  
**202 Success Strategies for RN Students, 1 unit, 1 lecture hour, (Repeats = 2)**

**Prerequisite:** Admission into the nursing program.

Study and test-taking skills for the student nurse. Assessment of learning styles and development of strategies for student success, including application of critical thinking in Registered Nursing.



**Paralegal (PLEGAL)**

**Change: prerequisite, corequisite** **effective Spring 2009**

**1 Introduction to Paralegalism, 3 units, 3 lecture hours**

**Corequisite:** Business Administration 20. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

**Change: title, description** **effective Spring 2009**

**2A Legal Research and Writing I, 3 units, 3 lecture hours**

**Prerequisite:** Paralegal 1.

Development of legal research skills through the use of primary and secondary sources. Development of legal writing skills through the preparation of various legal writing assignments. (A, CSU)

**Change: title, description** **effective Spring 2009**

**2B Legal Research and Writing II, 3 units, 3 lecture hours**

**Prerequisite:** Paralegal 2A.

Development of advanced legal research skills using more sophisticated legal research tools. Development of more sophisticated legal writing skills through preparation of more advanced and specialized legal writing assignments. (A, CSU)

**Change: title, prerequisite, corequisite, description** **effective Spring 2009**

**6A Litigation I, 3 units, 3 lecture hours**

**Prerequisite:** Paralegal 2B.

Role of the paralegal in the litigation process. Court system and jurisdiction issues, types and forms of pleadings, calendaring pleadings, and forms of discovery. (A, CSU)

**Change: title, description** **effective Spring 2009**

**6B Litigation II, 3 units, 3 lecture hours**

**Prerequisite:** Paralegal 6A.

Role of the paralegal in the litigation process. Forms discovery; calendaring discovery; law and motion; trial setting; arbitration; preparation for trial and trial procedures; judgments; post-trial motions and appeals; and provisional remedies. (A, CSU)

**Change: prerequisite, corequisite** **effective Spring 2009**

**7 Law Office Practices, 3 units, 3 lecture hours**

**Corequisite:** Paralegal 1.

Principles of law office management and operation include human relations, general office procedures, and office supervision. Preparation for working in law office environment. (A, CSU)

**Change: prerequisite, corequisite** **effective Spring 2009**

**14 Law Office Computing, 3 units, 2 lecture hours, 3 lab hours**

**Corequisite:** Paralegal 1 or Paralegal 156 or Business & Technology 140.

**Correct title****15 Debt Collection and Enforcement of Judgments, 3 units, 3 lecture hours**

**New course** **effective Spring 2009**

**18 Employment Law, 3 units, 3 lecture hours**

**Prerequisite:** Paralegal 1.

Overview of legal relationship between employer and employee. Emphasis placed on basic understanding of employment-related laws, and federal and state regulatory environment. Subjects covered include pre-employment concerns, legal aspects of the employer/employee relationship, discrimination issues and actions, terminations, and ethical issues in employment law. (A, CSU)

**New course** **effective Spring 2009**

**19 Work Experience (Cooperative), Occupational, 1-8 units, (Repeats = 2)**

**Corequisite:** Fall and Spring Semesters. Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to paralegalism. Collaborative learning objectives established specific to a paralegal career. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester, 16 units total. May be repeated for not more than 16 units total. (A, CSU)

**New course****effective Spring 2009****20 Civil Rights and Liberties, 3 units, 3 lecture hours****Prerequisite:** Paralegal 1.

An overview of the constitutional interpretation of civil rights and liberties focusing on the Bill of Rights and landmark U.S. Supreme Court decisions in these areas. Emphasis placed on: speech, press, other forms of expressive conduct, obscenity, church/state relations, voting rights, various forms of discrimination, personal privacy, abortion, "right to die," freedom of association, etc. (A, CSU)

**Delete course****effective Spring 2009****157 Legal Document Preparation, 2 units, 2 lecture hours, 1 lab hour, (Formerly Paralegal 57)****Photography (PHOTO)****Change: description****effective Fall 2010****5 Introduction to Photography, 3 units, 3 lecture hours**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Non-lab beginning photography course introducing the basic principles, practices, and aesthetics of image making using digital or film cameras. Survey of photography's historical and contemporary role in our multicultural society. Emphasis on: using the camera, light, and visual language for expressing ideas photographically. Activities include, but not limited to homework readings, and writings, exams, shooting and sharing photography projects, required field trips, and discussing the images and contributions of major practitioners. Students must provide their own basic camera. Course is not required for the Photography Degree or Certificate. (A, CSU-GE, UC)

**New course****effective Fall 2010****6 Digital Camera Fundamentals, 1.5 units, 3 lecture hours, (9 weeks)**

**Advisory:** Photography 5, eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Entry-level non-lab course for the photography certificate or degree program. Theories and practices of manually adjustable digital cameras; technical and creative use of manual camera controls and accessories. Topics include: automatic vs. manual shooting modes, camera menus, exposure control, depth of field, motion control, basic flash, white balance, file formats, capture workflow, and camera care. Activities include: shooting, and sharing and critiquing photography projects, homework readings and writings, demonstrations, exams, and discussing the images and contributions of major practitioners. Students must provide their own manually adjustable digital camera or use a manual film camera provided by the Photography Department. (A, CSU)

**New course****effective Fall 2010****7 Applied Camera Fundamentals, 1.5 units, 3 lecture hours, (9 weeks)****Prerequisite:** Photography 6 or equivalent.

Continuation of the non-lab Photography 6, Digital Camera Fundamentals, course. Exploration of increasing complex and technical problem solving projects using manual digital camera controls and accessories. Topics include: existing light, color design and composition, photographing people, flash, close-up photography, and print workflow. Activities include: shooting and sharing photography projects, homework and writing, exams, demonstrations, and discussing the images and contributions of major practitioners. Students must also provide their own manually adjustable digital camera or use a manual film camera provided by the Photography Department. (A, CSU)

**Change: title, description****effective Fall 2010****12 Photoshop 1: Photoshop for Photographers, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3), (Formerly Photography 22)**

**Advisory:** Applied Technology 10 or equivalent. Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Photoshop in a photographer's workflow, including a variety of problem solving lessons and projects using: digital image capture, organization, basic tone and color adjustments, basic retouching, and printing techniques. Activities include: demonstrations, workbook lessons and worksheets, digital camera and scanning projects desktop printing and exams. (A, CSU)

**Change: corequisite, advisory, description** **effective Fall 2010**

**15 Photography and Visual Literacy, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)**

**Corequisite:** Photography 7 or equivalent. **Advisory:** Photography 12.

The nature and character of photography; its use for communication and expression. Visual literacy and photography as a universal language. How concept, design, and execution of the photographic image are utilized in our culture. Activities include: shooting and sharing photography projects, homework readings and writings, exams, demonstrations, discussing the images and contributions of major practitioners. The use of small format cameras and digital workflows. Field trips as required. (A, CSU-GE)

**Change: number, title, description** **effective Fall 2010**

**17 Classic Black and White Photography, 3 units, 2 lecture hours, 3 lab hours, (Formerly Photography 10)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Theories and practices of traditional 35mm and 4x5 black and white film photography; technical and creative use of a manual camera controls and accessories, film development, printing, and print presentation techniques. Projects emphasize aesthetics and photographic problem solving utilizing text and classroom information. Activities include, but not limited to shooting and sharing photography projects, homework readings and writings, exams, demonstrations, and discussing the images and contributions of major practitioners. Course may be used as an elective for the Commercial Photography Degree or Certificate. (A, CSU-GE, UC)

**Change: number, title, prerequisite, advisory, description** **effective Fall 2010**

**18 Digital Black and White Photography, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3), (Formerly Photography 20)**

**Prerequisite:** Photography 12 or equivalent. **Advisory:** Photography 7.

Interpreting reality through the many pathways to digital black and white photography using Adobe Photoshop and other software completion of a variety of projects emphasizing the vision, language, and technique of black and white versus color. Issues and techniques for crafting the fine quality black and white print. Activities include: demonstrations, workbook lessons and worksheets, camera and scanning projects, desktop printing, field trips, exams, and discussion of the images and contributions of major practitioners and student projects. (A, CSU-GE)

**Change: corequisite, description** **effective Spring 2009**

**19 Work Experience (Cooperative), Occupational, 1-8 units, (Repeats = 2)**

**Corequisite:** Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to photography. Collaborative learning objectives established specific to photography. Seventy-five hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester, 16 units total. May be repeated for not more than 16 units total. (A, CSU)

**Change: title, description** **effective Fall 2010**

**23 Photoshop 2: Digital Darkroom, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)**

**Prerequisite:** Photography 12 or equivalent.

Concepts and techniques focusing on professional digital image optimization and printing techniques, including completion of a variety of real world photographic retouching lessons and projects. Emphasis will also be on non-destructive workflows, evaluating and choosing digital imaging technology and establishing a color managed workflow. Activities include: demonstrations, workbook lessons and worksheets, digital camera and scanning projects, desktop printing, and exams. (A, CSU)

**Change: number, prerequisite, advisory, description** **effective Fall 2010**

**26 Lighting Principles, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3), (Formerly Photography 24 and 35)**

**Prerequisite:** Photography 7 or equivalent. **Advisory:** Photography 12.

Photographic lighting qualities, characteristics, and styles. Using studio lighting techniques, tabletop still life subjects will be photographed to emphasize problem solving and personal expression. Activities include: demonstrations, audio/video and Internet presentations, digital camera shooting projects, sharing of photography projects, Adobe Photoshop workflow, desktop printing, exams, and discussing the images and contributions of major practitioners. (A, CSU)

**Change: number, title, prerequisite, advisory, description** **effective Fall 2010**

**27 Alternative Photographic Processes, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3), (Formerly Photography 30, 40, and 33)**

**Prerequisite:** Photography 7 or equivalent. **Advisory:** Photography 12 and 17.

Developing a personal vision by seeing and working with non-traditional methods for creating photographic images. Historical silver, non-silver, and digital processes will be used and combined for representational and non-representational imager. Activities include: shooting and sharing photography projects, homework readings and writings, exams, demonstrations, and discussion of the images and contributions of major practitioners. Field trips as required. May be used as an elective for the Commercial Photography Degree or Certificate. (A, CSU)

**Change: title, prerequisite, advisory, description** **effective Fall 2010**

**30 Editorial Photography, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)**

**Prerequisite:** Photography 7 or equivalent. **Advisory:** Photography 12 or equivalent.

Theories and practices of photography in the field of mass communication. Photography as it is applied to: newspapers, magazines, public relations, websites, business and publishing applications. Emphasis on communication of ideas, storytelling, and social reportage using the power of traditional film and digital still photographs. Activities include: demonstrations, audio/video and Internet presentations, digital camera shooting projects, sharing and critiquing photography projects, desktop printing, exams, and discussion of the images and contributions of major practitioners. (A, CSU)

**Change: number, title, prerequisite, advisory, description** **effective Fall 2010**

**32 Commercial Portraiture, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3), (Formerly Photography 23 and 25)**

**Prerequisite:** Photography 7 or equivalent. **Advisory:** Photography 12 and 26.

Studio and environmental commercial portraiture. Emphasis on style and the psychology of body language, lighting, composition, and facial expression. Portrait subjects include: individuals, couples, groups, and weddings. Activities include: demonstrations, audio/video and Internet presentations, digital camera shooting projects, sharing of photography projects, homework readings and writings, exams, Adobe Photoshop workflow, desktop printing, required field trips to studios, and discussion of the images and contributions of major practitioners. (A, CSU)

**New course**

**effective Fall 2010**

**37 Editorial Portraiture, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)**

**Prerequisite:** Photography 7 or equivalent. **Advisory:** Photography 12 and 32.

Theories and practices using the location portrait as a powerful editorial tool in visual reportage. Emphasis will be on subject relationships, location lighting setups, design, critical lens choice, and color utilization to create an accurate interpretation of the subject. Activities include: demonstrations, audio/video and Internet presentations, digital camera portrait projects, sharing of photography projects, desktop printing, exams, and discussion of the images and contributions of major practitioners. Course may be used as an elective for the Commercial Photography Degree or Certificate. (A, CSU)

**Change: title, prerequisite, advisory, description** **effective Fall 2010**

**40 Professional Photographic Practices, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)**

**Prerequisite:** Photography 7 or equivalent. **Advisory:** Photography 12, 15, or equivalent.

Theories and practices of picture selection for portfolios and other visual environments such as publishing, gallery presentations, annual reports, websites, magazines, commercial clients or visual media of any kind. Topics include advanced theory in communication with emphasis on visual language, organization and design in developing a professional portfolio strategy to be successful in both traditional and online marketplaces. Activities include: demonstrations, audio/video and Internet presentations, digital camera shooting projects, sharing of photography projects, desktop printing, exams, and discussion of the images and contributions of major practitioners. (A, CSU)

**Change: title, prerequisite, advisory, description** **effective Fall 2010**

**45 Advanced Projects, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)**

**Prerequisite:** Photography 18, or 23, or 26, or 27, or 30, or 32, or 35, or 37, or 47, or equivalent.

**Advisory:** Photography 40.

Limited enrollment course open only to those students who have completed the prerequisite for their proposed project. Projects must emphasize advanced approaches not covered in the prerequisite courses. Students will research their topic and present their work and findings in progress to the class. Independent study contract between instructor and student required. (A, CSU)

**New course****effective Fall 2010****47 Book/Video Publishing, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)****Prerequisite:** Photography 7, 12, 15, and 30. **Advisory:** Photography 15 and 30.

Principles and theories of photographic book publishing and design concepts relating to content, flow, composition and design of a photographic book and video. Emphasis will be on a single themed project with two distinct media presentations; a hardcover finished book and a simultaneously produced four to five minute video using the same subject matter, set to music. Course may be used as an elective for the Commercial Photography Degree or Certificate. (A, CSU)

**Physical Science (PHYSC)****Change: description, transfer designation****effective Spring 2009****7 Environmental Science, 3 units, 3 lecture hours, (Formerly Environmental Studies 7)****Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 101 recommended.

The application of basic scientific principles to the understanding of environmental problems. Topics include urban land planning and usages, air and water pollution, water usages and management, food production, wildlife management, and population studies. Optional field trips may be offered. (A, CSU-GE, UC, I)

**Change: advisory, description****effective Fall 2009****11 Introductory Physical Science, 3 units, 3 lecture hours****Advisory:** Mathematics 101 and eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Emphasis on a survey of physics, chemistry, and earth science, including mechanics, thermodynamics, electricity and magnetism, optics, modern physics, nuclear physics, chemical systems, chemical reactions, geologic time, weather phenomena, astronomy, and cosmology. Designed primarily for non-science majors. (A, CSU-GE, UC, I)

**Physics (PHYS)****Change: prerequisite, corequisite, description****effective Fall 2009****4A Physics for Scientists and Engineers, 4 units, 3 lecture hours, 3 lab hours****Corequisite:** Mathematics 5B. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 recommended.

Classical mechanics and mechanical waves. Designed primarily for physics, engineering, and related majors. (CAN PHYS 8) (A, CSU-GE, UC, I)

**Change: description****effective Fall 2009****4B Physics for Scientists and Engineers, 4 units, 3 lecture hours, 3 lab hours****Prerequisite:** Physics 4A.

Thermodynamics, electricity, and magnetism. Designed primarily for physics, engineering, and related majors. (CAN PHYS 12) (A, CSU-GE, UC, I)

**Change: description****effective Fall 2009****4C Physics for Scientists and Engineers, 4 units, 3 lecture hours, 3 lab hours****Prerequisite:** Physics 4A. Physics 4B is not a prerequisite.

Electromagnetic waves, optics, relativity, quantum mechanics, nuclear physics, and elementary particles. Designed primarily for physics, engineering, and related majors. (CAN PHYS 14) (A, CSU-GE, UC, I)

**Radiologic Technology (RAD)****Change: title****effective Fall 2009****1A Fundamentals of Radiologic Technology, 6 units, 6 lecture hours****Change: description****effective Fall 2009****1B Basic Radiologic Positioning Laboratory, 1 unit, 3 lab hours**

**Prerequisite:** Admission to the Radiologic Technology Program; Applied Technology 11; Biology 24 or Biology 20 and 22. **Corequisite:** Radiologic Technology 1A and 1C. **Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68, and Mathematics 101 recommended.

Demonstration and practice in positioning of the chest, abdomen, upper and lower extremities, and should girdle. (A, CSU)

**Change: description**

**effective Fall 2009**

**2B Advanced Radiographic Positioning Laboratory, 1 unit, 3 lab hours**

**Prerequisite:** Radiologic Technology 1A, 1B, and 1C. **Corequisite:** Radiologic Technology 2A, 2C, and 2D.

Demonstration and practice in positioning of the pelvis and upper femora, vertebral column, boney thorax, digestive system, gallbladder, biliary ducts, urinary system and mammography. (A, CSU)

**Change: description**

**effective Fall 2009**

**2C Clinical Observation Laboratory, 2 units, 6 lab hours**

**Prerequisite:** Radiologic Technology 1A, 1B, and 1C. **Corequisite:** Radiologic Technology 2A, 2B, and 2D.

Practice of the applicable rules and regulations of the clinical facility. Under direct supervision, perform basic radiographic procedures. (A, CSU)

**Change: corequisite**

**effective Fall 2009**

**4A Pathology in Radiologic Technology, 2 units, 2 lecture hours**

**Prerequisite:** Radiologic Technology 3A and 3B. **Corequisite:** Radiologic Technology 4B and 4C.

**Change: corequisite**

**effective Fall 2009**

**4B Advanced Clinical Radiologic Technology, 11 units, 33 lab hours**

**Prerequisite:** Radiologic Technology 3A and 4B. **Corequisite:** Radiologic Technology 4A and 4C.

**Change: prerequisite**

**effective Fall 2009**

**4C Advanced Clinical Radiologic Technology, 1 unit, 3 lab hours**

**Prerequisite:** Radiologic Technology 3A and 3B. **Corequisite:** Radiologic Technology 4A and 4B.

**Change: prerequisite, corequisite**

**effective Fall 2009**

**5A Special Procedures in Radiologic Technology, 2 lecture hours**

**Prerequisite:** Radiologic Technology 4A, 4B, and 4C. **Corequisite:** Radiologic Technology 5B and 5C.

**Change: prerequisite, corequisite**

**effective Fall 2009**

**5B Specialized Clinical Radiologic Technology, 11 units, 33 lab hours**

**Prerequisite:** Radiologic Technology 4A, 4B, and 4C. **Corequisite:** Radiologic Technology 5A and 5C.

**Change: prerequisite**

**effective Fall 2009**

**5C Fluoroscopy, 2 units, 2 lecture hours, 1 lab hour**

**Prerequisite:** Radiologic Technology 4A, 4B, and 4C.

**Change: prerequisite**

**effective Fall 2009**

**6 Concentrated Clinical Radiologic Technology, 6 units, 40 lab hours, (8 weeks), (Summer)**

**Prerequisite:** Radiologic Technology 5A, 5B, and 5C.

## **Recreation (REC)**

**Change: corequisite, description**

**effective Spring 2009**

**19 Work Experience (Cooperative), Occupational, 1-8 units, (Repeats = 2)**

**Corequisite:** Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to recreation. Collaborative learning objectives established specific to recreation. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester, 16 units total. May be repeated for not more than 16 units total. (A, CSU)

## Respiratory Care (RCARE)

*Change: corequisite, description*

*effective Spring 2009*

### **19 Work Experience (Cooperative), Occupational, 1-8 units, (Repeats = 2)**

**Corequisite:** Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to respiratory care. Collaborative learning objectives established specific to respiratory care. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester, 16 units total. May be repeated for not more than 16 units total. (A, CSU)

## Sociology (SOC)

*New course*

*effective Fall 2009*

### **1AH Honors Introduction to Sociology, 3 units, 3 lecture hours**

**Advisory:** Meet the qualifications for consideration for acceptance into the Honors Program recommended. See Honors Program listing in college catalog.

Basic concepts, theoretical approaches, and methods of sociology. Analysis and explanation of social systems, socialization, and self, institutions, stratification, inter/intra-group dynamics, multi-/cross-cultural relations, demography, deviance, collective behavior, social change, and global trends. The Honors section of this course places a greater emphasis on methods of conducting scientific research in the field of Sociology. Additional emphasis is placed on contemporary social issues as explored through supplemental readers or texts. (A, CSU)

## Speech (SPEECH)

*See Communication*

## Theatre Arts (TA)

*Change: cross-list*

*effective Fall 2010*

### **12 Fundamentals of Interpretation, 3 units, 3 lecture hours, (See also Communication 12)**

*Change: transfer designation*

*effective Fall 2008*

### **27A Introduction to Scenic Design, 3 units, 3 lecture hours, 1 lab hour** (A, CSU, UC)

*Change: transfer designation*

*effective Fall 2008*

### **27B Introduction to Lighting Design, 3 units, 3 lecture hours, 1 lab hour** (A, CSU, UC)

*Change: transfer designation*

*effective Fall 2008*

### **46 Voice of the Actor, 3 units, 3 lecture hours** (A, CSU, UC)

*New course*

*effective Spring 2009*

### **48 Teasers, 1 unit, .25 lecture hours, 2 lab hours, (Repeats = 3)**

**Advisory:** Eligibility for English 125 and 126 recommended.

Creation, rehearsal and performance of new plays for public presentation. Participation in a Fresno City College theatre production of *Teasers* is required. (A, CSU)

## Water Treatment and Distribution (WTD)

### *New course*

*effective Fall 2009*

#### **101 Basic Water Treatment, 3 units, 3 lecture hours, (Repeats = 3)**

**Advisory:** Eligibility for English 125 and 126 or English as a Second Language 67 and 68 and Mathematics 101 recommended or permission of the instructor.

Provides water treatment operators with the knowledge and skills required to effectively operate and maintain water treatment facilities; prepares students to take the California Public Health Department (CPHD) test for "Water Treatment Operator Grade T2" (or Grade 2). (A)

## Welding Technology (WELD)

### *Change: corequisite, description*

*effective Spring 2009*

#### **19 Work Experience (Cooperative), Occupational, 1-8 units, (Repeats = 2)**

**Corequisite:** Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to occupational work experience. Summer Session: Enrollment in another college course is optional. Supervised employment directly related to the student's major. Offered under specific majors.

Supervised employment extending the classroom based on occupational learning related to welding. Collaborative learning objectives established specific to welding. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 8 units per semester, 16 units total. May be repeated for not more than 16 units total. (A, CSU)

## Wind Turbine Technology (WTT)

### *New course*

*effective Spring 2010*

#### **1 Introduction to Safety in the Utility Wind Turbine Industry, 2.5 units, 2 lecture hours, 1.5 lab hours, (Repeats = 3)**

**Prerequisite:** None.

An introduction to the Wind Generation Industry, the history, advantages and disadvantages of wind generation, and industry market trends. Safety practices used in the Wind Generation Industry. (A, CSU)

### *New course*

*effective Spring 2010*

#### **2 Wind Generation and Electrical Circuits, 2.5 units, 2 lecture hours, 1.5 lab hours, (Repeats = 3)**

**Prerequisite:** None.

The electrical measurement tools used in the wind generation industry. The tool types, application and test procedures, including tool safety. (A, CSU)

### *New course*

*effective Spring 2009*

#### **3 Wind Turbine System Maintenance and Repair, 2.5 units, 2 lecture hours, 1.5 lab hours, (Repeats = 3)**

**Prerequisite:** None.

Introduction to wind turbine technology systems, both mechanical and electrical. The operation and maintenance of wind turbine systems. (A, CSU)

## Work Experience, General (WKEXP)

### *Change: corequisite, description*

*effective Spring 2009*

#### **19 Work Experience (Cooperative), General, 1-3 units, (Repeats = 2)**

**Corequisite:** Fall and Spring Semesters: Must be enrolled in at least one other course, in addition to work experience. Summer Session: Enrollment in another college course is optional. Work experience need not be related to student's educational goal.

Acquisition of desirable work habits, attitudes and career awareness. Exploring basic academic skills, communicating, adapting to new situations, and problem solving. Seventy-five (75) hours of paid work or 60 hours of non-paid work per unit per semester. Maximum of 3 units per semester, 6 units total. May be repeated for not more than 6 units total. (A, CSU)