Fresno City College

2004–2006 Catalog Addendum

June 2005

2004-2006 Catalog Addendum

July 2005

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GRADUATION REQUIREMENTS

Changes to Pages 30-34

Associate in Arts Degree

Change: revise
8,(a) Business & Technology 107 *to Business & Technology 7*

Change: correction
C, Humanities
   Art 12 *to Art 12A*   *effective Fall 2004*
   Art 14   *add*
   Art 22 *to Art 22A*   *effective Fall 2004*
   Philosophy 5   *add*

Change: new
A, Natural Sciences
   Biology 9   *effective Spring 2005*
   Geology 9   *effective Spring 2005*
C, Humanities
   American Sign Language 5   *effective Spring 2006*
   Film 3, 5   *effective Spring 2006*

Change: delete
C, Humanities
   Film 4   *effective Spring 2006*
   Journalism 10   *effective Fall 2005*
D2, Communication and Analytical Thinking
   Computer Science 10   *effective Fall 2005*

Certificate of Completion

New certificates
Air Conditioning
Commercial Air Conditioning, Heating, and Duct Systems   *effective Spring 2005*
Digital Air Conditioing Controls   *effective Fall 2005*
Mechanical and Electrical Systems   *effective Spring 2005*

Computer Information Technology
Preparation in Microsoft Office   *effective Fall 2005*

Electrical Systems Technology
Communications Technology   *effective Fall 2005*
Control Systems   *effective Fall 2005*
Network Security   *effective Fall 2005*
Wireless Networks   *effective Fall 2005*

Revised certificates
Air Conditioning
Air Conditioning Technology Overview   *effective Spring 2005*

Information Systems *to Computer Information Technology*
Microsoft Access   *effective Fall 2005*
Microsoft Excel   *effective Fall 2005*
Microsoft Office   *effective Fall 2005*

TRANSFER REQUIREMENTS

Changes to Pages 35–46

General Education Requirements for California State University Transfer Certification (CSU-GE)

Change: correction (add)
Area B1, Physical Science
   Chemistry 1B, 8A
   Physics 4B, 4C
Area B2, Life Science
   Biology 22
Area C1, Arts
   Music 32
Area C2, Humanities
   Armenian 3
   Film 1, 2A, 2B
   History 1/1H, 2/2H
   Spanish 7
Area D3, Ethnic Studies
   Asian-American Studies 1
Area D6, History
   African-American Studies 4
   Chicano-Latino Studies 29
   History 29
Area D9, Psychology
   Child Development 38
   Psychology 2/2H, 38
Area D10, Sociology and Criminology
   Human Services 2, 10
   Sociology 2, 10

Change: revise
Area C1, Arts

Art 12 *to Art 12A*	*effective Fall 2004*
Art 22 *to Art 22A*	*effective Fall 2004*

Area C2, Humanities

Theatre Arts 47 *to Theatre Arts 33*	*effective Fall 2002*

Change: new
Area B4, Mathematics/Quantitative Reasoning

Computer Science 26	*effective Fall 2004*

Area C1, Arts

Art 12B	*effective Fall 2004*

Change: delete
Area B1, Physical Science

Geology 1H	*effective Spring 2002*

Area B4, Mathematics/Quantitative Reasoning

Computer Science 20, 40, 41	*effective Fall 2006*

Area D3, Ethnic Studies

African-American Studies 4	*effective Fall 2005*

California State University Transfer Course List (CSU)

Change: *revise from Information Systems*   *effective Fall 2005*
Computer Information Technology 12, 15, 17, 19, 20, 21, 23, 24, 26, 27, 29, 31, 40, 45, 50, 51,
   52, 53, 54, 55, 56, 60, 61, 63, 64, 66, 67, 80, 81, 86, 87, 90

Change: *revise*   *effective Spring 2006*
Business & Technology 10 *to Business & Technology 6*

Change: *new*
Air Conditioning 55, 57	*effective Spring 2005*
American Sign Language 5	*effective Spring 2006*
Biology 9	*effective Spring 2005*
Building Safety and Code Administration 27, 37, 47	*effective Fall 2005*
Business Administration 11, 23	*effective Spring 2006*
Business & Technology 10	*effective Spring 2006*
Child Development 16	*effective Spring 2005*
Computer Information Technology 68, 93	*effective Fall 2005*
Electrical Systems Technology 52, 55C, 56A, 56B, 56C, 57A, 57B, 57C, 96A, 96B, 96C, 96D	*effective Fall 2005*
Film 3, 5, 6	*effective Spring 2006*
Geology 9	*effective Spring 2005*
History 22	*effective Spring 2006*
Home Economics 30	*effective Spring 2005*
Library Skills 2	*effective Spring 2005*
Library Skills 19	*effective Spring 2006*
Military Science 20, 21, 31, 32, 41, 42, 51A, 51B, 52A, 52B	*effective Spring 2005*
Natural Science 1A	*effective Fall 2004*
Respiratory Care 19	*effective Spring 2005*

Change: *delete*
Business & Technology 3	*effective Spring 2006*
Computer Science 10	*effective Fall 2005*
Electrical Systems Technology 52, 56, 57, 96	*effective Fall 2005*
Film 4	*effective Spring 2006*
Journalism 6, 10, 19	*effective Fall 2005*
Purchasing 10, 11	*effective Spring 2003*

University of CaliforniaTransfer Course List (UC)

Change: *correction (add)*
Anthropology 4, #30
Dance #23, #24
Economics 1BH
Honors Studies #1, #1A, #1B, #1C
Individual Study #49
Special Studies #47
   # Approved as variable topics; evaluation completed by individual campuses upon admission.

Change: *revise from Information Systems*   *effective Fall 2005*
Computer Information Technology *12, *15, 60, 61, 63, 64, 66, 67
   * 12 and 15 combined: maximum credit, 1 course.

Change: *new*   *effective Fall 2004*
Art 28
Asian-American Studies 30
Biology *°9
   * No credit for 3 or 9 if taken after 1 or 1H

° *3 and 9 combined: maximum credit, one course*
Computer Science 40J
Geology 9
Women's Studies 30

Change: delete
Art 24, 34   *correction*
Dance 42   *correction*
Photography 15   *effective Fall 2005*

Intersegmental General Education Transfer Curriculum (IGETC)

Change: correction (add, number, title, or units)
Area 2, Mathematical Concepts and Quantitative Reasoning
**Math 10A, Structure and Concepts in Mathematics 3
**Math 10B, Structure and Concepts in Mathematics II 3
Math/Psychology 42, Statistics for the Behavioral Sciences..4**

Area 3A, Arts
Theatre Arts 31, Theatre History and Dramatic Literature I **3**

Area 3B, Humanities
Armenian 3, Intermediate Armenian...**4**
Spanish 7, Advanced Spanish: Comp and Grammar..3
Theatre Arts **33** *(from TA 47)*, Shakespeare in Performance..3

Area 4C, Ethnic Studies
African-American St 4, African Civilization *(move to 4F)*
Asian-American St 1, The Indo-Chinese American...3
Chicano-Latino St 12, Mexican American History 3

Area 4F, History
African-American St 4, African Civilization *(move from 4C)* 3
Chicano-Latino St 29, History of Mexico, Colonial to Contemporary Period 3
History 11, History of the United States to 1877 3
History 12, History of the United States since 1865 3
History 29, History of Mexico, Colonial to Contemporary Period...3

Area 4H, Political Science, Government & Legal Institutions
Political Science 1, Modern Politics...3
Political Science 2, American Government..3

Area 4J, Sociology & Criminology
Human Services 2, American Minority Groups 3
Human Services 10, Introduction to Aging Studies 3
Sociology 2, American Minority Groups 3
Sociology 10, Introduction to Aging Studies 3

Area 5A, Physical Sciences
Geography 1, Physical Geography (no lab)...3**

Area 5B, Biological Sciences
Biology 3, Ecological Approach to Biology 4

Change: new   *effective Spring 2004*
Area 5B, Biological Sciences
Biology 5, Human Biology 4

California Articulation Number (CAN)

CAN	Fresno City College Courses
AJ 2	CRIM 1, Intro to Criminology
AJ 4	CRIM 6, California Criminal Law
AJ 6	CRIM 3, Legal Aspects of Evidence
AJ 8	CRIM 8, Criminal Investigation
ANTH 2	ANTHRO 1, Physical Anthropology
ANTH 4	ANTHRO 2 or 2H, Cultural Anthropology
ANTH 6	ANTHRO 3, Introduction to Archaeology and Prehistory
ART 2	ART 5 or 5H, Art History 1
ART 4	ART 6 or 6H, Art History 2
ART 6	ART 10, Beginning Ceramics
ART 8	ART 7, Beginning Drawing
ART 10	ART 9, Beginning Painting: Oil/Acrylic
ART 12	ART 11, Beginning Sculpture
ART 14	ART 3, Two-Dimensional Design
ART 16	ART 4, Three-Dimensional Design
ART 18	PHOTO 10, Basic Black & White Photography
ART 20	ART 14, Beginning Printmaking
ART 22	ART 35, Color Theory
ART 24	ART 8, Beginning Life Drawing & Anatomy
ART SEQ A	ART 5+6 or 5H+6H, Art History 1 & 2
BIOL 2	BIOL 1 or 1H, Principles of Biology
BIOL 4	BIOL 4, Principles of Zoology
BIOL 6	BIOL 6, Principles of Botany
BIOL 10	BIOL 20, Human Anatomy
BIOL 12	BIOL 22, Human Physiology
BIOL 14	BIOL 31, Microbiology
BIOL SEQ A	BIOL 1+4+6 or 1H+4+6, Principles of Biology+ Zoology + Botany
BIOL SEQ B	BIOL 20+22, Human Anatomy + Human Physiology
BUS 2	ACCTG 4A, Financial Accounting
BUS 4	ACCTG 4B, Managerial Accounting
BUS 6	IS 15, Computer Concepts
BUS 8	BA 18, Business and the LegalEnvironment
BUS SEQ A	ACCTG 4A+4B, FinancialAccounting + Managerial Accounting
CHEM 2	CHEM 1A, General Chemistry
CHEM 4	CHEM 1B, General Chemistry and Qualitative Analysis
CHEM SEQ A	CHEM 1A+1B, Gen Chemistry + Gen Chemistry and Qualitative Analysis
CHEM SEQ B	CHEM 3A+3B, Intro to Gen Chemistry + Intro to Organic & Biological Chemistry
CHIN 2	CHIN 1, Beginning Chinese
CHIN 4	CHIN 2, High-Beginning Chinese
CHIN SEQ A	CHIN 1+2, Beginning/High -Beginning Chinese
CSCI 2	IS 12, Computer Literacy
CSCI 4	CSCI 20, Programming in the FORTRAN Language
CSCI 22	CSCI 40, Programming Concepts & Methodology I
CSCI 24	CSCI 41, World Wide Web Research
DRAM 12	TA 25, Theatre Crafts I
DRAM 14	TA 28, Intro to Stage Makeup
DRAM 18	TA 30, Theatre Appreciation
DRAM 22	TA 43, Intermediate Techniques of Acting
ECON 2	ECON 1A, Principles of Macroeconomics
ECON 4	ECON 1B, Principles of Microeconomics
ENGL 2	ENGL 1A or 1AH, Reading & Composition
ENGL 4	ENGL 1B or 1BH, Intro to Study of Literature
ENGL 6	ENGL 15A, Creative Writing: Poetry
ENGL 8	ENGL 46A, English Literature to 1800
ENGL 10	ENGL 46B, English Literature from 1800-Present

ENGL 14	ENGL 48A, Intro to American Literature to World War I
ENGL 16	ENGL 48B, Intro to American Literature from World War I to the Present
ENGL SEQ A	ENGL 1A+1B or 1AH+1BH, Reading & Composition + Intro to the Study of Literature
ENGL SEQ B	ENGL 46A+46B, English Literature
ENGL SEQ C	ENGL 48A+48B, Intro to American Literature
ENGR 2	ENGR 2, Graphics
ENGR 4	ENGR 4, Engineering Materials
ENGR 6	ENCR 6, Circuits with Lab
ENGR 8	ENGR 8, Statics
ENGR 10	ENGR 1A, Elementary Plane Surveying I
FCS 2	FN 40, Nutrition
FCS 8	FN 1, Principles of Food Preparation
FCS 14	CHDEV 39 or PSY 39, Child Development
FREN 2	FRENCH 1, Beginning French
FREN 4	FRENCH 2, High-Beginning French
FREN 8	FRENCH 3, Intermediate French
FREN 10	FRENCH 4, High-Intermediate French
FREN SEQ A	FRENCH 1+2, Beginning/High-Beginning French
FREN SEQ B	FRENCH 3 + 4, Intermediate/High-Intermediate French
GEOG 2	GEOG 1, Physical Geography
GEOG 4	GEOG 2, Cultural Geography
GEOL 2	GEOL 1, Physical Geology
GEOL 8	GEOL 2, Historical Geology
GERM 2	GERMAN 1, Beginning German
GERM 4	GERMAN 2, High-Beginning German
GERM 8	GERMAN 3, Intermediate German
GERM 10	GERMAN 4, High-Intermediate German
GERM SEQ A	GERMAN 1+2, Beginning/High-Beginning German
GERM SEQ B	GERMAN 3+4, Intermediate/High-Intermediate German
GOVT 2	POLSCI 2, American Government
HIST 2	HIST 1 or 1H, Western Civilization to 1648
HIST 4	HIST 2 or 2H, Western Civilization Since 1648
HIST 8	HIST 11, History of the U.S. to 1977
HIST 10	HIST 12, History of the U.S. Since 1865
HIST SEQ A	HIST 1+2, Western Civilization
HIST SEQ B	HIST 11+12, History of the U.S.
JAPN 2	JAPAN 1, Beginning Japanese
JAPN 4	JAPAN 2, High-Beginning Japanese
JAPN SEQ A	JAPAN 1+2, Beginning/High-Beginning Japanese
JOUR 2	JOURN 3, Newswriting
JOUR 4	JOURN 1, Intro to Mass Communication
KINE/PE 2	PE 22, Introduction to Physical Education
KINE/PE 4	PE 20, Care and Prevention of Athletic Injuries
KINE/PE 8	HLTH 2, First Aid and Safety
KINE/PE 10	PE 25, Water Safety Instructor
KINE/PE 12	PE 23, Lifeguard Training
MATH 2	MATH 45, Contemporary Math
MATH 4	MATH 10A, Structure and Concepts in Mathematics
MATH 8	MATH 4A, Trigonometry
MATH 12	MATH 21 or DS 21, Finite Mathematics
MATH 16	MATH 4B, Precalculus
MATH 18	MATH 5A, Mathematical Analysis I
MATH 20	MATH 5B, Mathematical Analysis II
MATH 22	MATH 6, Mathematical Analysis III
MATH 24	MATH 7, Introduction to Differential Equations
MATH 26	MATH 26, Elementary Linear Algebra
MATH SEQ B	MATH 5A+5B, Mathematical Analysis I/II
MATH SEQ C	MATH 5A+5B+6, Mathematical Analysis I/II/III
PHIL 2	PHIL 1A or 1AH, Theories of Knowledge, Existence & Beauty

PHIL 4	PHIL 1C, Ethics
PHIL 6	PHIL 6, Introduction to Logic
PHYS 2	PHYS 2A, General Physics 1
PHYS 4	PHYS 2B, General Physics 2
PHYS 8	PHYS 4A, Physics for Scientists andEngineers
PHYS 12	PHYS 4B, Physics for Scientists and Engineers
PHYS 14	PHYS 4C, Physics for Scientists andEngineers
PHYS SEQ A	PHYS 2A+2B, General Physics 1/2
PHYS SEQ B	PHYS 4A+4B+4C, Physics for Scientists and Engineers
PSY 2	PSY 2 or 2H, General Psychology
PSY 6	PSY 42 or MATH 42, Statistics for the Behavorial Sciences
REC 2	REC 20, Introduction to Recreation
REC 4	REC 21, Recreation Leadership
RUSS 4	RUSS 2, High-Beginning Russian
RUSS SEQ A	RUSS 1+2, Beginning/High-Beginning Russian
SOC 2	SOC 1A, Intro to Sociology
SOC 4	SOC 1B, Problems of Society
SPAN 2	SPAN 1, Beginning Spanish
SPAN 4	SPAN 2, High-Beginning Spanish
SPAN 8	SPAN 3, Intermediate Spanish
SPAN 10	SPAN 4, High-Intermediate Spanish
SPAN SEQ A	SPAN 1+2, Beginning/High-Beginning Spanish
SPAN SEQ B	SPAN 3+4, Intermediate/High-Intermediate Spanish
SPCH 4	SPEECH 1, Beginning Speech
SPCH 6	SPEECH 25, Argumentation
SPCH 8	SPEECH 2, Interpersonal Communication
STAT 2	MATH 11, Elementary Statistics

FRESNO CITY COLLEGE MAJORS AND TRANSFER MAJORS WITH CODES

Changes to Pages 69-70

New programs

AIR CONDITIONING

8031	Commercial Air Conditioning, Heating, and Duct Systems (CC)	*effective Spring 2005*
8034	Digital Air Conditioing Controls (CC)	*effective Fall 2005*
8032	Mechanical and Electrical Systems (CC)	*effective Spring 2005*

CHILD DEVELOPMENT

5617	Early Intervention Assistant (CA)	*effective Spring 2005*

COMPUTER INFORMATION TECHNOLOGY

2710	Preparation in Microsoft Office (CC)	*effective Fall 2005*

CRIMINOLOGY

7732	Criminology/Forensic Evidence Option (AS/CA)	*effective Fall 2003*

ELECTRICAL SYSTEMS TECHNOLOGY

8179	Automation Control Technician (CA)	*effective Fall 2005*
8175	Communications Technology (CC)	*effective Fall 2005*
8176	Control Systems (CC)	*effective Fall 2005*
8177	Network Security (CC)	*effective Fall 2005*
8178	Wireless Networks (CC)	*effective Fall 2005*
5340	Philosophy (AA)	*effective Fall 2005*

Revised programs
AIR CONDITIONING
8033   Air Conditioning Technology Overview (CC) *(formerly 8030.CC)*   *effective Spring 2005*

INFORMATION SYSTEMS *to COMPUTER INFORMATION TECHNOLOGY*
2701   Computer Information Systems (AS)   *effective Fall 2005*
2713   Data Entry Operator (CA)   *effective Fall 2005*
2721   MCSE Core (CC)   *effective Fall 2005*
2722   MCSE Networking (CA)   *effective Fall 2005*
2705   Microcomputer Software Specialist (AS/CA)   *effective Fall 2005*
2707   Microsoft Access (CC)   *effective Fall 2005*
2709   Microsoft Excel (CC)   *effective Fall 2005*
2711   Microsoft Office (CC)   *effective Fall 2005*
2720   Networking/Computer Technician (AS/CA)   *effective Fall 2005*
2723   System Support Specialist (CC)   *effective Fall 2005*
2741   Web Page Development (CC)   *effective Fall 2005*
2740   Webmaster (AS/CA)   *effective Fall 2005*

Deleted program
5350   Journalism (AS/CA)   *effective Fall 2005*

DIVISIONS

Changes to Pages 71–83

BUSINESS DIVISION

Information Systems
to COMPUTER INFORMATION TECHNOLOGY   *change program title, Fall 2005*
NOTE: See Associate Degree and Certificate Program section for details.

MICROSOFT EXCEL 2000 – Major #2434   *correct course (delete)*
Delete required course *IS 21, Advanced Spreadsheets*

ASSOCIATE DEGREE
AND CERTIFICATE PROGRAMS

Changes to Pages 86–142

ACCOUNT CLERK

<u>ACCOUNT CLERK</u> **– Major #2400**   *correct course*
Change from DS 17 to *DS 117, Business Math*

ACCOUNTING

<u>COMPUTERIZED ACCOUNTING</u> **– Major #2405**   *correct program requirement (add)*
Note: Student must demonstrate the ability to type 35 words per minute with 97% accuracy and 130 correct strokes per minute on the ten-key calculator.

AIR CONDITIONING

<u>AIR CONDITIONING</u> **– Major #8030**   *revise program, Fall 2005*
     The program provides training in troubleshooting, maintenance, repair, and installation of heating, cooling, and refrigeration systems. The curriculum will emphasize fundamental and advanced skills in both classroom and lab activities. Students will train on residential and commercial systems similar to those found in the workplace. Upon successful completion of the program, students may take the Air Conditioning and Refrigeration Institute's (ARI) Industry Competency Examination(s), the North American Technician Excellence (NATE) core section of the certification exam, R-410A safety certification exam, and EPA approved certification under provisions of the Federal Clean Air Act, Section 608.

Associate in Science Degree and Certificate of Achievement
First Year

First Semester		**Units**
AC 50	Principles of Mechanical Refrigeration	3
AC 51	Electrical Systems	6
AC 53	Measurements and Diagnosis	6
AT 10	Technical Computer Applications	2
	Total	**17**

Second Semester		**Units**
AC 52	Heating Systems	6
AC 54	Commercial Systems	6
AC 55	Technician Testing & Certification	1
AC 56	Duct Systems	3
	Total	**16**

Second Year

First Semester		**Units**
AC 57	System Configuration & Control	2
AT 21	Occupational Safety & Health	2
AT 130	Industrial Math	3
EST 240	Building Automation	2
WELD 1	Basic Welding	3
	Total	**12**

Second Semester		Units
AT 40	Preparing for Employment Opportunities	3
AT 120	Industrial Science	3
EST 55A	Digital Concepts	3
EST 55B	Digital Applications	3
	Total	**12**

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 29 of the catalog, upon application, will be awarded the associate in science degree.

AIR CONDITIONING TECHNOLOGY OVERVIEW – Major #8033   *revise program, Spring 2005*

This curriculum provides training in the principles of mechanical refrigeration, residential and commercial system configurations, electrical fundamentals, motors and controls, heating systems, and troubleshooting procedures.

Certificate of Completion		Units
AC 57	System Configuration & Control	2
AC 60A	Fund of Refrigeration	3
AC 260B	Electricity for Air Conditioning	3
AC 260C	Residential Heating	3
AC 260D	Troubleshooting procedures	3
AT 10	Technical Computer Applications	2
	Total	**16**

COMMERCIAL AIR CONDITIONING, HEATING, AND
DUCT SYSTEMS – Major #8031   *new program, Spring 2005*

This curriculum provides training in three-phase power, motors, refrigerant flow controls typically used in commercial applications, National Electrical Code requirements related to the HVAC/R industry, heating systems (gas, electric, and heat pumps), and the design and installation of residential duct systems. Successful completion of the program includes industry recognized licensing/certifications.

Certificate of Completion		Units
AC 52	Heating Systems	6
AC 54	Commercial Systems	6
AC 55	Technician Testing & Certification	1
AC 56	Duct Systems	3
	Total	**16**

DIGITAL AIR CONDITIONING CONTROLS – Major #8034   *new program, Fall 2005*

This curriculum provides training in the use of direct digital controls in commercial HVAC applications, examines various system configurations, control strategies, and introduces total building automation.

Certificate of Completion		Units
AC 57	System Configuration & Control	2
AC 250	Digital Unitary Controls	2
AC 251	Digital VAV Controls	1
AC 252	DDC Network Controllers	2
AT 10	Technical Computer Applications	2
EST 55A	Digital Concepts	3
EST 55B	Digital Applications	3
EST 240	Building Automation	2
	Total	**17**

MECHANICAL AND ELECTRICAL SYSTEMS – Major #8032   *new program, Spring 2005*

This curriculum provides training in the principles of mechanical refrigeration, electrical fundamentals, single-phase motors and controls, reading wiring diagrams, airflow measurement, and the use of psychometrics as a diagnostic tool.

Certificate of Completion		Units
AC 50	Principles of Mechanical Refrigeration	3
AC 51	Electrical Systems	6
AC 53	Measurements and Diagnosis	6
AT 10	Technical Computer Applications	2
	Total	**17**

BUILDING SAFETY AND CODE ADMINISTRATION

BUILDING SAFETY AND CODE ADMINISTRATION – Major #8220   *correct course deletion*

Delete *ARCH 33, Energy Conservation*

BUSINESS & TECHNOLOGY PROGRAM

BUSINESS & TECHNOLOGY PROGRAM   *revise program, Spring 2006*

Associate in Science, Certificate of Achievement, and Certificate of Completion

A student may earn one certificate of achievement and eight certificates of completion in the business & technology program. To get the additional certificates of completion, the student needs to take the courses unique to the emphasis area.

Core courses, a keyboarding speed of 40 gross words a minute with 97 percent accuracy on three five-minute timed writings, and a ten-key calculator speed of 110 correct strokes per minute on three five-minute timed writings are required for ALL certificates and for the associate in science degree.

CLERICAL EMPHASIS – Major #2061

Required Core Courses		Units
*BT 1	Beginning Typing	3
*BT 2	Word Processing I	3
*BT 4	Ten-Key Calculation	2
BT 6	Records Management	3
BT 11	Today's Office	2
BT 13	Applied Business Correspondence	2
BT 20	Resume/Interview	1.5
BT 21	Working Relationships	1.5
BT 112	Business English	2
BT 115	Refresher Math	3
BT 116	Spelling & Vocabulary Building	2
BT 122	Skillbuilding	1
	Total	**26**

*   Requirements will be waived if knowledge and skill in the subject matter can be demonstrated through testing.

ADMINISTRATIVE ASSISTANT EMPHASIS – Major #2212

		Units
Required Core Courses (see Clerical Emphasis)		26
BT 5	Business Communications	3
*BT 9	Computer Applications	4
*BT 10	Computer Applications II	4
BT 19	Work Experience (Coop), Occup.	2
	Total	**39**

*   Requirements will be waived if knowledge and skill in the subject matter can be demonstrated through testing.

LEGAL ADMINISTRATIVE ASSISTANT EMPHASIS – Major #2102

		Units
Required Core Courses (see Clerical Emphasis)		26
*BT 9	Computer Applications	4
*BT 10	Computer Applications II	4
BT 19	Work Experience (Coop), Occup	2
BT 140	Legal Office Administration	3
	Total	**39**

* Requirements will be waived if knowledge and skill in the subject matter can be demonstrated through testing.

MEDICAL ADMINISTRATIVE ASSISTANT EMPHASIS – Major #2381

		Units
Required Core Courses (see Clerical Emphasis)		26
*BT 9	Computer Applications	4
*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	**43**

* Requirements will be waived if knowledge and skill in the subject matter can be demonstrated through testing.

MEDICAL BILLING CLERK EMPHASIS – Major #2421

		Units
Required Core Courses (see Clerical Emphasis)		26
BT 147	Medical Manager	2
BT 148	Medical Insurance Forms	3
HIT 10	Medical Terminology	3
	Total	**34**

MEDICAL RECEPTIONIST EMPHASIS – Major #2241

		Units
Required Core Courses (see Clerical Emphasis)		26
BT 43	Medical Office Vocabulary	1
BT 131	Applied Accounting	3
BT 148	Medical Insurance Forms	3
	Total	**33**

MEDICAL TRANSCRIPTIONIST EMPHASIS – Major #2371

		Units
Required Core Courses (see Clerical Emphasis)		26
BT 145	Medical Transcription I	2
BT 146	Medical Transcription II	2
BT 148	Medical Insurance Forms	3
HIT 10	Medical Terminology	3
	Total	**36**

OFFICE PROFESSIONAL EMPHASIS – Major #2213

		Units
Required Core Courses (see Clerical Emphasis)		26
*BT 9	Computer Applications	4
*BT 10	Computer Applications II	4
BT 19	Work Experience (Coop), Occup	2
BT 131	Applied Accounting	3
	Total	**39**

*   Requirements will be waived if knowledge and skill in the subject matter can be demonstrated through testing.

WORD PROCESSOR EMPHASIS – Major #2322

		Units
Required Core Courses (see Clerical Emphasis)		26
*BT 9	Computer Applications	4
*BT 10	Computer Applications II	4
	Total	**34**

*   Requirements will be waived if knowledge and skill in the subject matter can be demonstrated through testing.

BUSINESS OFFICE ASSISTANT – Major #2201   *revise program, Fall 2004*
Certificate of Completion   **Units**

BT 1	Beginning Typing	3
BT 2	Word Processing	3
BT 7	WordPerfect I	1.5
BT 19	Work Experience	3
BT 21	Working Relationships	1.5
BT 20	Resume/Interview	1.5
BT 29	Microsoft Word II	1.5
BT 116	Spelling & Vocabulary	2
BT 250	Skills Lab	2
BT 270	Business Math & 10 Key	2
BT 271	Business Grammar Fundamentals	2
BT 272	Office Procedures	1
BT 273	Filing	1
BT 274	Introduction to Outlook	1
BT 277	Accelerated Excel	1.5
	Total	**27.5**

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

BUSINESS OFFICE ASSISTANT – Major #2201   *revise program, Spring 2006*
Certificate of Completion   **Units**

BT 1	Beginning Typing	3
BT 2	Word Processing	3
BT 9	Computer Applications	4
BT 19	Work Experience (Coop), Occup	3
BT 20	Resume/Interview	1.5
BT 21	Working Relationships	1.5
BT 29	Microsoft Word II	1.5
BT 116	Spelling & Vocabulary	2
BT 250	Skills Lab	2
BT 271	Business Grammar Fundamentals	2
BT 272	Office Procedures	1
BT 273	Filing	1

BT 270   Business Math & 10 Key 2
                                                                                                Total   27.5

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   *correct course title, units*
BT/IS 18   Spreadsheet Fundamentals...1.5
                                                                                                Total   9.5

MEDICAL BILLING ASSISTANT - Major #2242   *correct course units*
BT 43   Medical Office Vocabulary 1

CHILD DEVELOPMENT

EARLY INTERVENTION ASSISTANT – Major #5617   *new program, Spring 2005*
        Current legislation mandates that infants and young children with disabilities and other special needs be served in the "natural environment" starting at birth. This certificate of achievement is designed to prepare students to work with infants, toddlers, and young children with disabilities and other special needs in early intervention settings and inclusive early care and education settings. A student who completes the certificate is qualified to work at the Early Intervention Assistant I level of the California Early Start Personnel Model. *
        Completing the Early Intervention Assistant Certificate plus the Associate Degree in Child Development qualifies a student to work at the Early Intervention Assistant II level of the California Early Start Personnel Model. The Early Intervention Assistant certificate units apply to the Associate Degree in Child Development. **

Certificate of Achievement
Suggested sequence of courses for certificate:

First Year		**Units**
CHDEV 3	Creative Experiences for Young Children	3
CHDEV 6	Infant-Child Health and Safety	2
CHDEV 7	Infant Development-Birth to Age 3	3
CHDEV 15	Diversity Issues in Early Care and Education	3
CHDEV 30	Child Family Community	3
CHDEV 39	Child Development	3

Second Year		**Units**
CHDEV 7A	Advanced Infant Toddler Development and Care	3
CHDEV 11	Children with Special Needs	3
CHDEV 16	Introduction to early Intervention	3
CHDEV 48	Children with Challenging Behaviors	3

*   The Early Start Personnel Model has been recommended, for the professional field of Early Intervention, by the California Interagency Coordinating Council. The Interagency Coordinating Council is the statewide advisory body for California's Early Start Program.
** To graduate with the Associate Degree in Child Development, student must take two additional courses beyond the Early Intervention Assistant certificate: CHDEV 37A and CHDEV 37B.

Note: For graduation with an Associate Degree in Child Development, add CHDEV 37A and CHDEV 37B to either year one or two.

COMPUTER INFORMATION TECHNOLOGY

COMPUTER INFORMATION TECHNOLOGY – Formerly Information Systems   *revise title, Fall 2005*

<u>**COMPUTER INFORMATION SYSTEMS**</u> **– Major #2701**   *revise program, Fall 2005*

This program provides a strong academic preparation in Information Systems and Computer Science. The courses give students the fundamentals in current programming languages and a broad foundation in Business Administration. This major will prepare students for transfer as an Information Systems major to most transfer schools as well as entry-level employment as a computer programmer. Transfer students should obtain complete information on transfer requirements as they plan their program.

Associate in Science Degree
First Year
First Semester		**Units**
ACCTG 4A	Financial Accounting	4
BA 28	E-Law and Ethics	3
CIT 15	Computer Concepts	3
	Total	**10**

Second Semester		**Units**
ACCTG 4B	Managerial Accounting	4
BA 18	Business and the Legal Environment	4
CIT 60	Beginning Visual Basic	3
	Total	**11**

Second Year
First Semester		**Units**
CIT 63	Beginning Java Programming, or	
CIT 66	Beginning C++ Programming	3
DS 21	Finite Mathematics	3
ECON 1A	Principles of Macroeconomics	3
	Total	**9**

Second Semester		**Units**
CIT 68	Advanced Programming Applications, or	
CIT 64	Advanced Java Programming, or	
CIT 67	Advanced C++ Programming	3
DS 23	Statistical Analysis	3
ECON 1B	Principles of Microeconomics	3
	Total	**9**

Note: Requires additional general education units for AS degree.

<u>**DATA ENTRY OPERATOR**</u> **– Major #2713**   *revise program, Fall 2005*

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

Certificate of Achievement
First Semester		**Units**
BA 10	Intro to Business	3
*BT 1	Beginning Typing	3
BT 112	Business English	2
DS 117	Business Math	3
	Total	**11**

Second Semester		**Units**
BT 2	Word Processing I	3
BT 21	Working Relationships	1.5
BT 20	Resume/Interview	1.5
CIT 12	Computer Literacy	3
	Total	**9**

* Student can place out of this class by passing the appropriate test.

MCSE Core – Major #2721 *revise program, Fall 2005*
Designed to meet the training needs for qualified entry-level Microsoft network technicians. It is also designed to help prepare students for the core requirements for the Microsoft Certified Systems Engineer (MCSE) certification tests.

Certificate of Completion		Units
CIT 50	Fundamentals of Networking	4
CIT 51	MCSE Network Infrastructure	4
CIT 52	MCSE Directory Services	4
	Total	**12**

MCSE NETWORKING – Major #2722 *revise program, Fall 2005*
Designed to meet the training needs for qualified entry-level MCSE network technicians. It is also designed to help prepare for the MCSE certification tests.

Certificate of Achievement		Units
CIT 50	Fundamentals of Networking	4
CIT 51	MCSE Network Infrastructure	4
CIT 52	MCSE Directory Services	4
CIT 53	MCSE Directory Infrastructure	2
CIT 54	MCSE Network Services	2
CIT 55	MCSE Network Security	4
CIT 56	MCSE ISA	4
	Total	**24**

MICROCOMPUTER SOFTWARE SPECIALIST – Major #2705 *revise program, Fall 2005*
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 in Science Degree and Certificate of Achievement
First Year

First Semester		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)*	3
	Total	**11.5 or 14.5**

Second Semester		Units
CIT 17	Windows	1.5
CIT 20	Microsoft Office	3
CIT 80	Internet Basics	1.5
CIT 81	World Wide Web Research	1.5
	Total	**7.5**

Second Year

First Semester		Units
CIT 29	PowerPoint	1
CIT 45	Data Communications	3
CIT 60	Beginning Visual Basic	3
	Total	**7**

Second Semester		Units
CIT 19	Work Experience (Coop), Occup	2
CIT 21	Advanced Microsoft Office	3
	Total	**5**

Recommended electives: CIT 68, CIT 86, CIT 87, CIT 260
Note: Requires additional general education units for AS degree.

MICROSOFT ACCESS – Major #2707   *revise program, Fall 2005*
This certificate of completion option is designed to assist students pursuing MOUS certification.

Certificate of Completion		Units
CIT 26	Database Fundamentals	1.5
CIT 27	Advanced Databases	1.5
	Total	**3**

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

MICROSOFT EXCEL – Major #2709   *revise program, Fall 2005*
This certificate of completion option is designed to assist students pursuing MOUS certification.

Certificate of Completion		Units
CIT 23	Spreadsheet Fundamentals	1.5
CIT 24	Advanced Spreadsheets	1.5
	Total	**3**

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

MICROSOFT OFFICE – Major #2711   *revise program, Fall 2005*
This Certificate of Completion option is designed to assist students pursuing MOUS certification.

Certificate of Completion		Units
CIT 20	Microsoft Office	3
CIT 21	Advanced Microsoft Office	3
	Total	**6**

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

NETWORKING/COMPUTER TECHNICIAN – Major #2720   *revise program, Fall 2005*
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

First Semester		Units
CIT 15	Computer Concepts	3
**CIT 45	Data Communications	3
EST 50	Introduction to Electronics	2.5
EST 60	PC and LAN Maintenance	3
EST 61	Networking Essentials	3
	Total	**14.5**

Second Semester		Units
*BT 20	Resume/Interview	1.5
*BT 21	Working Relationships	1.5
BT 112	Business English	2
CIT 40	Computer Operating Systems	3
CIT 50	Fundamentals of Networking	4
EST 55A	Digital Concepts	3
EST/CIT 19	Work Experience (Coop), Occup	2
	Total	**17**

* AT 40 can by substituted for BT 20 and BT 21.
** EST 57 may be substituted for CIT 45.

Note: Requires additional general education units for AS degree.

PREPARATION IN MICROSOFT OFFICE – Major #2710 *new program, Fall 2005*
This Certificate of Completion option is designed to assist students pursuing MOS certification.

Certificate of Completion

First Semester		Units
BT 28	Microsoft Word I	1.5
BT 29	Microsoft Word II	1.5
CIT 20	Microsoft Office	3
CIT 23	Spreadsheet Fundamentals	1.5
CIT 24	Advanced Spreadsheets	1.5
	Total	**9**

Second Semester		Units
BT 27	Microsoft Outlook	1
CIT 21	Advanced Microsoft Office	3
CIT 26	Database Fundamentals	1.5
CIT 27	Advanced Database	1.5
CIT 29	PowerPoint	1
	Total	**8**

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

SYSTEM SUPPORT SPECIALIST – Major #2723 *revise program, Fall 2005*
This option is designed to meet the training needs for qualified entry-level systems support personnel.

Certificate of Completion
Suggested sequence of courses

Fall Semester		Units
CIT 40	Computer Operating Systems	3
CIT 45	Data Communication	3
	Total	**6**

Spring Semester		Units
EST 60	PC & LAN Maintenance	3
CIT 238	A+/Server+Systems Fundamentals	3
	Total	**6**

WEB PAGE DEVELOPMENT – Major #2741 *revise program, Fall 2005*
This certificate of completion option is designed to assist students who would like to develop web pages.

Certificate of Completion		Units
CIT 80	Internet Basics	1.5
CIT 86	Web Page Development I	1.5
CIT 87	Web Page Development II	1.5
	Total	**4.5**

WEBMASTER – Major #2740   *revise program, Fall 2005*

    This option is designed to prepare students for work in the computer industry as Webmasters. 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
Program Prerequisites (may be fulfilled by passing tests)
   Math 101, Elementary Algebra or equivalent
   English 125, Writing Skills for College
   BT 6, Computer Keyboarding

First Year

First Semester		**Units**
CIT 15	Computer Concepts	3
CIT 80	Internet Basics	1.5
CIT 81	World Wide Web Research	1.5
GRC 39A	Graphic Design I	3
	Total	**9**

Second Semester		**Units**
CIT 20	Microsoft Office	3
CIT 40	Computer Operating Systems	3
CIT 60	Beginning Visual Basic	3
GRC 15	Web Page Construction I	4
	Total	**13**

Second Year

First Semester		**Units**
BA 28	E-Law and Ethics	3
CIT 63	Beginning Java Programming	3
CIT 86	Web Page Development I	1.5
CIT 87	Web Page Development II	1.5
	Total	**9**

Second Semester		**Units**
CIT 68	Advanced Programming Applications, or	
CIT 64	Advanced Java Programming	3
CIT 90	Data Driven Websites Using Dreamweaver	3
CIT 93	Beginning JavaScript	3
	Total	**9**

Recommended Electives: CIT 50, CIT 21, CIT 260, GRC 41.

CRIMINOLOGY

FORENSIC EVIDENCE OPTION – Major #7732   *remove "+", approved by State Chancellor's Office*

ELECTRICAL SYSTEMS TECHNOLOGY

ELECTRICAL SYSTEMS TECHNOLOGY – Major #8171   *revise program, Fall 2005*

    Electrical Systems Technology provides an opportunity for students to prepare for employment in the electronics/electrical industry. Specific occupational preparation is provided in the following program.

Associate in Science and Certificate of Achievement
First Year

First Semester		**Units**
AT 10	Technical Computer Applications	2

EST 51	Direct Current Fund of Electronics	3
EST 52	Alternating Current Fundamentals	3
EST 54	Integrated Devices	3
	Total	**11**

Second Semester		**Units**
EST 53	Lab Safety Practices	1
EST 55A	Digital Concepts	3
EST 55B	Digital Applications	3
EST 57C	Voice and Data Cabling	3
EST 96A	National Electrical Code Part 1 or	
EST 96B	National Electrical Code Part 2 or	
EST 96C	National Electrical Code Part 3	3
	Total	**13**

Second Year

First Semester		**Units**
EST 55C	SCADA Systems	2
EST 57A	Analog Communications	3
EST 57B	Digital Communications	3
EST 58	Programmable Logic Controllers	3
EST 61	Networking Essentials	3
	Total	**14**

Second Semester		**Units**
AT 40	Preparing for Employment Opportunities	3
EST 56A	Wiring methods	3
EST 56B	Motor Control	3
EST 56C	Industrial Electronics	3
EST 59	Instrumentation Systems	3
	Total	**15**

AUTOMATION CONTROL TECHNICIAN – Major #8179 *new program, Fall 2005*

Training is designed to prepare the student for employment as an industrial and/or building automation technician.

Certificate of Achievement
First Year

First Semester		**Units**
AT 10	Technical Computer Applications	2
EST 51	Direct Current Fund of Electronics	3
EST 240	Building Automation	2
EST 57C	Voice and Data Cabling	3
	Total	**10**

Second Semester		**Units**
AC 57	System Configuration and Control	2
EST 55A	Digital Concepts	3
EST 58	Programmable Logic Controllers	3
	Total	**8**

Second Year

First Semester		**Units**
AC 250	Digital Unitary Controls	2
EST 55C	SCADA Systems	2
EST 59	Instrumentation Systems	3
	Total	**7**

Second Semester		**Units**
AC 251	Digital VAV Controls	1
AC 252	DDC Network Controllers	2
		Total 3

COMMUNICATIONS TECHNOLOGY – Major #8175   *new program, Fall 2005*

    Training is designed to prepare the student for employment as a communication technician.

Certificate of Completion

First Semester		**Units**
EST 52	Alternating Current Fundamentals	3
EST 53	Lab Safety Practices	1
EST 54	Integrated Devices	3

Second Semester		
EST 57A	Analog Communications	3
EST 57B	Digital Communications	3
EST 57C	Voice and Data Cabling	3
		Total 16

CONTROL SYSTEMS – Major #8176   *new program, Fall 2005*

    Training in this specialized field is designed to prepare the student for employment as a control and instrument technician.

Certificate of Completion

First Semester		**Units**
EST 51	Direct Current Fund of Electronics	3
EST 55A	Digital Concepts	3
EST 57C	Voice and Data Cabling	3

Second Semester		
EST 58	Programmable Logic Controllers	3
EST 59	Instrumentation Systems	3
EST 55C	SCADA Systems	2
		Total 17

INDUSTRIAL CONTROL SYSTEMS – Major #8173   *correct course numbers*

Certificate of Completion		**Units**
AT 10	Technical Computer Applications	2
EST 272	Industrial Motor Control	3
EST 273	Industrial Electronic Fundamentals	3

NETWORK SECURITY – Major #8177   *new program, Fall 2005*

    Training is designed to prepare the student for employment as a networking technician emphasizing network security.

Certificate of Completion

First Semester		**Units**
EST 61	Network Essentials	3

Second Semester		
EST 62	Router Theory and Technology	3

Third Semester		
EST 63	Advanced Routing & Switching	3

Fourth Semester
EST 64   Advanced Networking and Management...3

Fifth Semester
EST 269A   Fund of Network Security-Firewalls 3
                                                                                       Total   15

NETWORKING/COMPUTER TECHNICIAN – Major #8172   *revise program, Fall 2005*
    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
Total Units Required   **31**
Required Core Courses: **Units**
*BT 20   Resume/Interview 1.5
*BT 21   Working relationships...1.5
BT 112/ENGL 159   Business English...2
CIT 15   Computer Concepts 3
CIT 40   Computer Operating Systems 3
**CIT 45   Data Communications 3
CIT 50   Fundamentals of Networking..3
EST/CIT 19   Work Experience (Coop), Occup..2
EST 55A   Digital Concepts 3
EST 60   PC Maintenance...3
EST 61   Networking Essentials 3
EST 62   Router Theory and Technology 3
                                                                                       Total   31

Suggested sequence of courses:
First Semester   **Units**
CIT 15   Computer Concepts 3
**CIT 45   Data Communications 3
EST 55A   Digital Concepts 3
EST 60   PC Maintenance...3
EST 61   Networking Essentials 3
                                                                                       Total   15

Second Semester   **Units**
*BT 20   Resume/Interview 1.5
*BT 21   Working relationships...1.5
BT 112/ENGL 159   Business English...2
CIT 40   Computer Operating Systems 3
CIT 50   Fundamentals of Networking..3
EST/CIT 19   Work Experience (Coop), Occup..2
EST 62   Router Theory and Technology 3
                                                                                       Total   16

*   AT 40 can be substituted for BT 20 and BT 21.
**   EST 57A and EST 57B may be substituted for CIT 45.

Note: Associate degree requirements are listed on page 29.

WIRELESS NETWORKS – Major #8178   *new program, Fall 2005*

Training is designed to prepare the student for employment as a networking technician emphasizing Wireless Local Area Networks

Certificate of Completion

First Semester		Units
EST 61	Network Essentials	3

Second Semester		
EST 62	Router Theory and Technology	3
EST 269B	Fund of Wireless LANs	3
	Total	**9**

FASHION MERCHANDISING

HOME ECONOMICS/MARKETING – Major #2391   *correct course number, units*

Change from FM 26/TA 16 to *FM/TA 37, Fashion History*

Change from FM 26 or TA 16 to *FM 37 or TA 37, Fashion History*

Change Course Option units:

IS 12	Computer Literacy	3

MARKETING/HOME ECONOMICS – Major #2151   *correct course number*

Change from FM 26 to *FM 37, Fashion History*

FIRE TECHNOLOGY

FIRE TECHNOLOGY – Major #883A   *correct notation*

*   FIRET 130 carries a value of up to **24** units; however, only 6 units can be applied to the associate in science degree and certificate of achievement.

FOOD AND NUTRITION

FOOD AND NUTRITION – Major #5682   *correct course units*

FSM 11	Food Service Supervision	2
	Total	**19-22**

HEALTH INFORMATION TECHNOLOGY

HEALTH INFORMATION TECHNOLOGY – Major #4621   *revise program, Fall 2005*

Associate in Science Degree

Suggested sequence of courses

First Year

First Semester		Units
BIOL 5	Human Biology	4
CIT 15	Computer Concepts	3
HIT 1	Introduction to Health Care Records	3
HIT 10	Medical Terminology	3
	Total	**13**

Second Semester		Units
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**

Second Year
First Semester **Units**
CIT 20 Microsoft Office 3
HIT 3 Quality Improvement 2
HIT 6 Coding and Reimbursement...3
HIT 7 Directed Practice...5
HIT 9 Hospital and Health Statistics 2
Total 15

Second Semester **Units**
HIT 7 Directed Practice...5
HIT 8 Health Information Management and Supervision 3
HIT 11 CPT Coding 2
Elective 3
Total 13

Notes: 1. *BIOL 24 or BIOL 20 and 22 may be substituted for BIOL 5.*
2. *In addition to all major associate degree requirements, students must take a 3-unit elective of their choice. Recommended areas are accounting, business computer application software, finance, management, professional writing, and statistics.*
3. *The associate degree requires the completion of additional units and requirements listed with a 2.0 or better GPA.*

HOME ECONOMICS–CONSUMER EDUCATION
HOME ECONOMICS–CONSUMER EDUCATION – Major #5640 *correct course option*
Delete *FN 33, Food for Fitness*

HUMAN SERVICES
ALCOHOLISM AND DRUG ABUSE COUNSELING OPTION – Major #7951 *correct course option*
Delete *HS 24, Fundamentals of Counseling and Interviewing*

SOCIAL WORK OPTION – Major #7631 *correct course numbers*
Change from BT 6 to *BT 106, Computer Keyboarding*
Change from BT 107 to *BT 7, Wordperfect I*
Change from BT 108 to *BT 8, Workperfect II*

INFORMATION SYSTEMS
See COMPUTER INFORMATION TECHNOLOGY *change program name, Fall 2005*
Degree and certificate programs changed to *Computer Information Technology*

JOURNALISM
JOURNALISM – Major #5350 *delete program, effective Fall 2005*
Associate in Science Degree and Certificate of Achievement

LIBRARY TECHNOLOGY
<u>**LIBRARY TECHNOLOGY – Major #5171**</u>   *revise program, Fall 2005*
Associate in Science Degree requirements:

Requires completion of the major (22 units) with a 2.0 or better GPA. Additionally, requires completion of the associate degree requirements found in the Fresno City College 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.

Students interested in an Associate in Science degree are urged to consult a counselor or faculty advisor regarding this program. It is the student's responsibility to be aware of any degree requirements.

Certificate of Achievement requirements:

Requires completion of the major (22 units) with a 2.0 or better GPA. Students interested in a Certificate of Achievement are urged to consult a counselor or faculty advisor regarding this program. This program can be completed in less than two years.

Required Course Work (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

And one course from the list below:		
LITEC 60	Library Technology Capstone	1
LITEC 19	Occupational Work Experience	1-4

MARKETING
MARKETING – Major #2110   *correct course number, units*
Associate in Science Degree
Change from DS 17 to *DS 117, Business Mathematics*

Certificate of Achievement		**Units**
IS 12	Computer Literacy	3
	Total	**26**

MEDICAL ASSISTANT–CLINICIAN
<u>**MEDICAL ASSISTANT–CLINICIAN – Major #2120**</u>   *revise program, Fall 2005*

This curriculum is designed for the student who desires employment and advancement in the medical facility assisting the physician with the diagnosis and treatment of the patient.

Admission Policy

Enrollment is limited in the Medical Assistant–Clinician Program. There are no restrictions as to age, race, sex or marital status. In order to qualify for admission to the program, the applicant must have met all of the following conditions:

1. Graduated from high school with a minimum average of "C" (2.0) in high school work or complete the General Educational Development (GED) test with an average score of 45.
2. Completed Math 260F or test score that would qualify the student to place out of or above Math 260F.
3. Completed an Academic Summary Form for the Medical Assistant–Clinician Program and be prepared to furnish transcripts when requested.
4. Have no physical impairment that would preclude the performance of all Medical Assistant-Clinician duties.

After selection as a qualified student to the Medical Assistant–Clinician Program, the student must submit evidence of physical examination by a licensed physician.

Associate in Science Degree
*First Year
First Semester **Units**
BT 20   Resume/Interview 1.5
BT 21   Working Relationships 1.5
HIT 10   Medical Terminology 3
**MA 1   Legal and Ethical Concepts 2
                                                                                                Total   8

Second Semester **Units**
BIOL 5   Human Biology...4
CIT 15   Computer Concepts 3
HLTH 2   First Aid and Safety 2
HS 24   Interviewing and Counseling 3
**MA 2   Pharmacology 3
                                                                                                Total   15

*Second Year
First Semester **Units**
**MA 4   Office Lab Procedures 4
**MA 6A   Clinical Training...3
                                                                                                Total   7

Second Semester **Units**
FN 40   Nutrition...3
**MA 5   Testing Procedures...4
**MA 6B   Advanced Training 3
**MA 19   Work Experience 1-4
                                                                                                Total   11-14

*   Requires additional general education units for two-year Associate in Science degree. All courses must be completed
    with a "C" grade or better.
** Upon completion, the student will be eligible to take the California Medical Assistant State Certification Exam.

Note: BIOL 24 or BIOL 20 and 22 may be substituted for BIOL 5.

NURSING, REGISTERED

<u>**REGISTERED NURSING** – **Major #4520**</u>   *revise program, Spring 2005*
Associate in Science Degree
Add elective: *RN 151, Perioperative Nursing Clinic*

PARALEGAL

<u>**PARALEGAL** – **Major #2550**</u>   *correct course numbers*
Change from BT 107 to *BT 7*, Wordperfect I*
Change from BT 108 to *BT 8*, Wordperfect II*

*   BT 28 and 29 may be taken as alternatives to **BT 7 and 8**.

PHILOSOPHY

<u>**PHILOSOPHY** – **Major #5340**</u>   *new program, Fall 2005*
     A Philosophy major is a great way to develop critical and creative reasoning skills, enhance an ability to read complex
materials with comprehension, and improve communication skills. These assets will be valuable as a transfer student to a
four-year institution, whether you major in philosophy or some other field, and will enhance your preparation for a wide
range of career opportunities.

Associate in Arts Degree

Requirements within program (21 units)		**Units**
PHIL 1A	Theories of Knowledge and Reality or	
PHIL 1AH	Honors Theories of Knowledge and Reality 3	
PHIL 1B	Social/Political Philosophy, or	
PHIL 1D	World Religions, or	
PHIL 4	Critical Reasoning 3	
PHIL 1C	Ethics 3	
PHIL 5	Philosophy of Religion; 3	
PHIL 6	Introduction to Logic 3	
Hum 10	Classical Humanities 3	
Hum 11	Modern Humanities 3	

Note: An Associate in Arts Degree in Philosophy will be awarded to students who successfully complete a total of 60 units, which include the Associate Degree requirements and a minimum of 21 units of major course work 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.

RECREATION LEADERSHIP

RECREATION LEADERSHIP – Major #4300   *correct course number*
Change from TA 31A to *TA 41, Beginning Acting*

RESPIRATORY CARE PRACTITIONER

RESPIRATORY CARE PRACTITIONER – Major #4610   *revise program, Fall 2005*

The respiratory care practitioner (RCP) is a health care specialist involved in managing, diagnostically evaluating, and providing care to patients with deficiencies and abnormalities affecting their cardiopulmonary system. Respiratory care practitioners comprise a critical sector of the allied health care workforce. A recent survey for the American Association for Respiratory Care (AARC) estimated that there are 111,700 RCPs employed in the United States. Currently there are 13,660 active licensed RCPs in California.

Respiratory care practitioners work under the direction of physicians. The scope of their practice ranges from delivering temporary relief to persons with asthma, pulmonary edema, chronic obstructive pulmonary disease (COPD) and emphysema, to providing emergency treatment for asphyxiation, heart failure, stroke, drowning, and shock. The diagnostic and therapeutic responsibilities include the administration of medical gases, aerosols, environmental control systems, life sustaining mechanical ventilation, medication, chest physical therapy, pulmonary functions testing, and specialized cardiopulmonary procedures. The respiratory care practitioner works closely with the physician in assessing the patient and planning the proper respiratory care protocol. Most RCPs (75%) work in a hospital setting and are key staff in critical care units and emergency rooms. Next to nurses, RCPs are the most frequently seen health care provider at the patient bedside. In addition, RCPs are present in the emergency room for resuscitation and are always a member of response teams that rush to the aid of patients who experience sudden cardiac arrest.

The respiratory care program is designed to prepare the student for employment in the health care delivery system, and to participate as a member of the health care team. Clinical work experiences in respiratory care are provided in selected local hospitals where students practice their skills under the supervision of the Fresno City College faculty.

State License and National Registration and Certification

Successful completion of the respiratory care program qualifies the graduate for an associate in science degree and satisfies eligibility requirements to take: (1) the licensing examination for the respiratory care practitioner credential issued by the California Respiratory Care Board, (2) the national registry examination for the registered respiratory therapist credential issued by the National Board for Respiratory Care.

Application Requirements

Enrollment into the respiratory care program is limited; however, there are no restrictions as to age, sex, race, or marital status. To qualify for admission to the program, the applicant must meet all of the following conditions:
1. Complete and submit an Academic Summary Form for the Respiratory Care Program.
2. Have graduated from high school with a minimum average grade of 2.0 ("C") or have an average score of 45 on the General Educational Development (GED) examination.

3. Have completed FCC Math 101 or higher, Biology 1 or 5, and Chemistry 3A or higher (or their college level equivalents) with a "C" grade or better.
4. Have attained a minimum average grade of "C" (2.0) in all completed college work.
5. Submit high school and college transcripts.

Note: It is the applicant's responsibility to request his/her transcripts from the necessary schools and to ensure that the transcripts are on file by the deadline. The college GPA and courses will have precedence over an applicant's high school GPA and courses.

PRIOR TO REGISTRATION for the semester in which the applicant actually scheduled to take courses in respiratory care, the following conditions must be met to finalize program qualifications:
1. Submit evidence of physical and mental health (a physical examination form to be completed by a physician).
2. Complete designation of immunization and diagnostic tests.
3. Attend program orientation.

Change of Name, Address, and/or Telephone Number
Applicants and respiratory care students must keep the Respiratory Care Program office informed of any change in name, address, and /or telephone number. Failure of applicant to inform the Respiratory Care Program office of this vital information may result in loss of entry into the program.

Academic Requirements
In order to take the licensing examinations for the Respiratory Care Practitioner license issued by the California State Respiratory Care Board, the students must earn the associate in science degree with a grade of "C" or better in every course. Students earning less than a "C" grade in any course must repeat that course in its entirety. In the case of earning less than a "C" grade in a respiratory care course, the student may not progress in the major until the course is completed successfully. Courses may be repeated once only.

Associate in Science Degree
Respiratory Care course sequence (all must be completed with a "C" grade or better):
First Year
First Semester   **Units**
RCARE16   Patient Assessment 3
RCARE 17   Fundamentals of Patient Mgmt..4
RCARE 18   Physiology of Respiratory System..2
RCARE 20   Intro to Respiratory Care 5
                                                                                                                   Total   14

Second Semester   **Units**
RCARE 21   Applications & Procedures 10
                                                                                                                   Total   10

Second Year
First Semester   **Units**
RCARE 22   Clinical Applications I..8
                                                                                                                   Total   8

Second Semester   **Units**
RCARE 23   Clinical Applications II 8
RCARE 25   Respiratory Disease 2
                                                                                                                   Total   10

Respiratory Care Practitioner Program Requirements
(A "C" or better grade is required in each course.)
In addition to the program application requirements and the Respiratory Care course sequence requirements, the following courses are required to apply for the associate degree:
        Biology 24, *or* Biology 20 *and* Biology 22
        Biology 31
        Physical Science 11 *or* Applied Technology 120
        Psychology 2

Speech 1 *or* Speech 2
Sociology 1A
General education courses to complete the Associate in Science degree requirements.

Note: *All applications 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 Science Counselor every semester for current information.*

COURSE DESCRIPTIONS

Changes to Pages 143–288

Course Classification System

New courses

Admin of Justice 221	Explosive Recog for First Respndrs	*effective Fall 2004*
Admin of Justice 269	Advanced Officer Topics	*effective Fall 2005*
Admin of Justice 271A	PC832 (Intensive Format)	*effective Fall 2004*
Admin of Justice 279A	Citizens on Patrol	*effective Spring 2005*
Air Conditioning 250	Digital Unitary Controls	*effective Spring 2005*
Air Conditioning 251	Digital VAV Controls	*effective Spring 2005*
Air Conditioning 252	DDC Network Controllers	*effective Spring 2005*
Business & Technology 251	Office Application Skills Lab	*effective Spring 2005*
Computer Information Tech 202	Introduction to Online Learning	*effective Fall 2005*
Computer Science 261	Internet and Computer Skills Lab	*effective Fall 2005*
Dev Services 264	Trans to College Stud w/Disabilities	*effective Spring 2004*
Electrical Systems Tech 240	Building Automation	*effective Fall 2005*
ESL 273	Engl Essentials for Hlth Professionals	*effective Spring 2006*

Revised courses

Information Systems 231 *to Computer Information Tech 237*	*effective Fall 2005*
Information Systems 238 *to Computer Information Tech 238, A+ and*	
Server+ Systems Fundamentals	*effective Fall 2005*
Information Systems 239 *to Computer Information Tech 239*	*effective Fall 2005*
Information Systems 260 *to Computer Information Tech 260*	*effective Fall 2005*
Information Systems 261 *to Computer Information Tech 261*	*effective Fall 2005*
Information Systems 277 *to Computer Information Tech 277*	*effective Fall 2005*

Deleted courses

Admin of Justice 260	Police Cadet Administration	*effective Fall 2005*
Admin of Justice 261	FCC Police Cadet Field	*effective Fall 2005*
Automotive Mechanics 373 (CTC)	Brakes, Suspension and Steering	*effective Fall 2005*
Building Maintenance 370 (CTC)	Building Maintenance	*effective Fall 2005*
Electronic Tech 370 (CTC)	Computer Technician	*effective Fall 2005*
Information Systems 272	Intro to Computers	*effective Fall 2005*
Information Systems 275	Accelerated Lotus	*effective Fall 2005*
Information Systems 276	Accelerated dBase	*effective Fall 2005*
Information Systems 278	Accelerated Access	*effective Fall 2005*

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 and Oakhurst) 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		**REEDLEY COLLEGE**	
Course	**Title**	**Course**	**Title**
ACCTG 4A	Financial Accounting	ACCTG 1A	Principles of Accounting
ACCTG 4B	Managerial Accounting	ACCTG 1B	Principles of Accounting
ACCTG 32	Computerized Accounting & Quickbooks	ACCTG 31	Computerized Accounting
ANTHRO 1	Physical Anthropology	ANTHRO 1	Physical Anthropology
ANTHRO 2	Cultural Anthropology	ANTHRO 2	Cultural Anthropology
ANTHRO 3	Intro to Archaeology & Prehistory	ANTHRO 3	Intro to Archaeology & Prehistory
ART 2	Art Appreciation	ART 2	Art Appreciation
ART 5	Art History 1	ART 5	Art History 1
ART 6	Art History 2	ART 6	Art History 2
ART 6H	Honors Art History 2	ART 6H	Honors Art History 2
ART 7	Beginning Drawing	ART 7	Beginning Drawing
ART 9	Beginning Painting: Oil/Acrylic	ART 9	Beginning Painting: Oil/Acrylic
ART 10	Beginning Ceramics	ART 10	Beginning Ceramics
ART 12	Crafts Design	ART 12	Crafts Design
ART 13	Beginning Watercolor Painting	ART 13	Beginning Watercolor Painting
ART 17	Intermediate Drawing	ART 17	Intermediate Drawing
ART 19	Intermediate Painting: Oil/Acrylic	ART 19	Intermediate Painting: Oil/Acrylic
ART 20	Intermediate Ceramics	ART 20	Intermediate Ceramics
ART 23	Intermediate Watercolor	ART 23	Intermediate Watercolor
ASL 1	Beginning American Sign Language	ASL 1	Beginning American Sign Language
ASL 2	High Beginning American Sign Language	ASL 2	High Beginning American Sign Language
ASL 3	Intermediate American Sign Language	ASL 3	Intermediate American Sign Language
ASL 4	High Inter American Sign Language	ASL 4	High Inter American Sign Language
ASTRO 10	Basic Astronomy	SCI 3	Introduction to Astronomy
AUTOT 9	Automotive Essentials	AUTOT 9	Automotive Essentials
BA 5	Business Communications	BA 5	Business Communications
BA 10	Introduction to Business	BA 10	Introduction to Business
BA 11	Introduction to Hospitality Management	BA 12	Introduction to Hospitality
BA 18	Business and the Legal Environment	BA 18	Business and the Legal Environment
BA 27	Students in Free Enterprise (SIFE)	BA 27	Students in Free Enterprise (SIFE)
BA 33	Human Relations in Business	BA 33	Human Relations in Business
BA 34	Fundamentals of Investing	BA 34	Fundamentals of Investing
BA 38	Operation of the Small Business	BA 38	Operation of the Small Business
BA 40	Managing Quality Organizations	BA 15	Management of People
BIOL 1	Principles of Biology	BIOL 1	Principles of Biology
BIOL 3	Ecological Approach to Biology	BIOL 3	Ecological Approach to Biology
BIOL 4	Principles of Zoology	BIOL 4	Principles of Zoology
BIOL 6	Principles of Botany	BIOL 6	Principles of Botany
BIOL 20	Human Anatomy	BIOL 20	Human Anatomy

BIOL 22	Human Physiology		BIOL 22	Human Physiology
BIOL 31	Microbiology		BIOL 31	Microbiology
BT 4	Ten-Key Calculation		BA 46	Calculator Applications
BT 5	Business Communications		BA 5	Business Communications
BT 6	Records Management		OT 21	Filing and Records Management
BT 11	Today's Office		OT 22	Receptionist & Basic Telecommunications
BT 106	Computer Keyboarding		OT 9	Beginning Keyboarding
CHDEV 2	Intro to Early Childhood Educ		CHDEV 2	Intro to Early Childhood Educ
CHDEV 6	Infant-Child Health & Safety		CHDEV 6	Infant-Child Health & Safety
CHDEV 7	Infant Development-Birth to Age Three		CHDEV 7	Infant-Toddler Development & Care
CHDEV 8	School Age Child: Growth & Develop		CHDEV 8B	Programs for School Age Child Care
CHDEV 8A	Programs for School Age Child Care		CHDEV 8A	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 16	Intro to Early Intervention		CHDEV 32	Intro to Early Intervention (3-unit course)
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 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 45	Supervision of Adults in ECE Classrooms		CHDEV 45	Supervision of Adults in ECE Classrooms
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	Introductory Organic & Biological Chemistry		CHEM 3B	Intro Organic & Biological Chemistry
CHEM 8A	Elementary Organic Chemistry		CHEM 8	Elementary Organic Chemistry
CHEM 28A	Organic Chemistry		CHEM 28A	Organic Chemistry
CHEM 28B	Organic Chemistry		CHEM 28B	Organic Chemistry
CHEM 29A	Organic Chemistry Laboratory		CHEM 29A	Organic Chemistry Laboratory
CHEM 29B	Organic Chemistry Laboratory		CHEM 29B	Organic Chemistry Laboratory
CIT 12	Computer Literacy		IS 12	Computer Literacy
CIT 15	Computer Concepts		IS 15	Computer Concepts
CIT 23	Spreadsheet Fundamentals		IS 18	Spreadsheet Fundamentals
CIT 60	Visual Basic		IS 47	Visual Basic
CIT 63	Beginning Java Programming		IS 33	Beginning Java Programming
CIT 80	Internet Basics		IS 40	Internet Basics
CIT 81	World Wide Web Research		IS 41	World Wide Web Research
CIT 202	Introduction to Online Learning		IS 202	Introduction to Online Learning
CLS 21	Chicano Literature		ENGL 49	Latino & Chicano Literature
CRIM 1	Intro to Criminology		CJ 1	Intro to Criminal Justice
CRIM 3	Legal Aspects of Evidence		CJ 3	Criminal Evidence
CRIM 4	Princ & Proced of the Justice System		CJ 4	Criminal Legal Procedure
CRIM 5	Community Relations		CJ 5	Community Relations
CRIM 6	Concepts of Criminal Law		CJ 6A	Criminal Law
CRIM 7	Concepts of Enforcement Services		CJ 7A	Police Operations & Procedures
CRIM 8	Criminal Investigation		CJ 8	Investigation of Crime Scene
CRIM 11	Juvenile Delinquency		CJ 11	Juvenile Procedures
CRIM 12	Criminal Justice Communications		CJ 12	Justice System Communications
CRIM 20	Intro to Corrections		CJ 20	Correctional Institutions
CSCI 20	Programming in the FORTRAN Language		ENGR 22	FORTRAN 77 Programming
CSCI 20	Programming in the FORTRAN Language		CSCI 20	Programming in the FORTRAN Language
CSCI 26	Discrete Mathematics for Computer Science		CSCI 26	Discrete Math for Computer Science
CSCI 40	Programming Concepts & Methods I		ENGR 40	Programming for Sci & Engin

CSCI 40	Programming Concepts & Methods I		CSCI 40	Programming Concepts & Methods I
CSCI 41	Programming Concepts & Methods II		CSCI 41	Programming Concepts & Methods II
DEVSER 260	Workability		DEVSER 260	Workability
DEVSER 262	Group Interaction for Students w/Disabilities		DEVSER 262	Group Inter for Students w/Disabilities
DEVSER 263	Group Dynamics—Peer Mentoring		DEVSER 263	Group Dynamics—Peer Mentoring
DEVSER 264	Transition to College for Students w/Disabilities		DEVSER 264	Trans to Coll 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
DEVSER 275	Horticulture Skills I		DEVSER 275	Horticulture Skills I
DS 23	Statistical Analysis		STAT 7	Elementary Statistics
DS 23	Statistical Analysis		STAT 7H	Honors Elementary Statistics
DS 117	Business Mathematics		DS 117	Business Mathematics
ECON 1A	Intro to Macroeconomics		ECON 1A	Intro to Macroeconomics
ECON 1AH	Honors Introduction to Macroeconomics		ECON 1AH	Honors Introduction to Macroeconomics
ECON 1B	Intro to Microeconomics		ECON 1B	Intro to Microeconomics
ECON 1BH	Honors Intro to Microeconomics		ECON 1BH	Honors Intro to Microeconomics
EDUC 30	Survey of Education		EDUC 10	Introduction to Teaching
EDUC 200A	CBEST Preparation: English		EDUC 200A	CBEST Preparation: English
EDUC 200B	CBEST Preparation: Mathematics		EDUC 200B	CBEST Preparation: Mathematics
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 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 44A	World Literature		ENGL 44A	World Literature
ENGL 44B	World Literature		ENGL 44B	World Literature
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 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
ESL 67	Reading for ESL College Students		ENGL 126	Reading Skills for College
EST 61	Networking Fundamentals		IS 49A	LAN Fundamentals – Cisco 1
EST 62	Router Theory & Technology		IS 49B	Router Theory & Tech – Cisco II Tech
EST 63	Adv. Routing & Switching		IS 49C	Ad. Routing & Switch – Cisco III Switch
EST 64	Adv. Networking & Management		IS 49D	Adv. Network & Mgmt – Cisco IV Mgmt
FILM 1	Introduction to Film Studies		FILM 1	Introduction to Film Studies
FN 35	Nutrition and Health		FN 35	Nutrition and Health
FN 40	Nutrition		FN 40	Nutrition
FN 41	Sports Nutrition		FN 41	Sports Nutrition
FN 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
GEOG 2	Cultural Geography		GEOG 2	Cultural Geography
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
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
GS 47AB	College Study Skills	GS 47	Learning Strategies
GS 53	College and Life Management	GS 53	College and Life Management
GS 150	College Introduction	GS 120	College Introduction
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 1865	HIST 12	History of the United States since 1865
HIST 20	Comparative World Civilizations to 1600	HIST 20	Comparative World Civilizations to 1600
HLTH 1	Contemporary Health Issues	HLTH 1	Contemporary Health Issues
HLTH 2	First Aid and Safety	HLTH 2	First Aid and Safety
HONORS 1	Honors Colloquium	HONORS 1	Honors Colloquium
JOURN 1	Introduction to Mass Communications	JOURN 1	Introduction to Mass Communications
JOURN 3	Newswriting	JOURN 3	Newswriting
JOURN 5	Newspaper Production	JOURN 8	Newspaper Staff (3 units)
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
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
MKTG 17	Visual Merchandising	MKTG 17	Visual Merchandising
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 27	Beginning Guitar: Level I	MUS 27	Beginning Guitar: Level I
MUS 28	Beginning Guitar: Level II	MUS 28	Beginning Guitar: Level II
MUS 41	Jazz Ensembles	MUS 41	Jazz Ensembles
MUS 68	Symphonic Band	MUS 40	Concert Band
MUS 69	Wind Band	MUS 40	Concert Band
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 8	Martial Arts/Self Defense	PE 8	Martial Arts/Self Defense
PE 10	Racquetball	PE 10	Racquetball
PE 12	Swimming	PE 12	Swimming
PE 13	Tennis	PE 13	Tennis
PE 14	Volleyball	PE 14	Volleyball
PE 20	Care and Prevention of Athletic Injuries	PE 20	Care and Prevention of Athletic Injuries
PE 22	Introduction to Physical Education	PE 22	Introduction to Physical Education
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 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 Condition 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
PHIL 1A	Theories of Knowledge, Exist & Beauty	PHIL 1	General Philosophy
PHIL 1C	Ethics	PHIL 1C	Ethics
PHIL 1D	World Religions	PHIL 1D	World Religions
PHIL 6	Introduction to Logic	PHIL 6	Introduction to Logic
PHIL 4	Critical Reasoning	PHIL 4	Critical Reasoning
PHOTO 5	Introduction to Photography	PHOTO 1	Basics of Photography
PHOTO 10	Basic Black & White Photography	PHOTO 10	Basic Black & White 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 5	Comparative Government		POLSCI 5	Comparative Government
POLSCI 2	American Government		POLSCI 2	American 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 33	Personal & Social Adjustment		PSY 33	Personal & Social Adjustment
PSY/CHDEV 38	Lifespan Development		PSY/CHDEV 38	Lifespan Development
RE 40	Real Estate Principles		RE 140	Real Estate Principles
RE 41	Real Estate Practice		RE 141	Real Estate Practice
RE 42	Legal Aspects of Real Estate		RE 142	Legal Aspects of Real Estate
RE 43	Real Estate Appraisal I		RE 143	Real Estate Appraisal
SOC 1A	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
SPEECH 1	Introduction to Public Speaking		SPEECH 1	Introduction to Public Speaking
SPEECH 2	Interpersonal Communications		SPEECH 2	Interpersonal Communications
SPEECH 12	Fundamentals of Interpretation		SPEECH 12	Fundamentals of Interpretation
SPEECH 25	Argumentation		SPEECH 25	Argumentation
TA 30	Theatre Appreciation		SPEECH 30	Theatre Appreciation
TA 41A	Beginning Acting		SPEECH 39A	Elementary Techniques of Acting
TA 43B	Intermediate Acting		SPEECH 39B	Intermediate Techniques of Acting
WELD 2A	Intro to Welding Technology		MFGT 32A	Basic Welding
WELD 2B	Advanced Processes MIG & TIG		MFGT 32B	Welding (MIG-TIG)
WELD 3A	Welding Design & Fabrication		MFGT 33A	Welding Fabrication
WELD 3B	Adv Welding Design & Fabrication		MFGT 33B	Advanced Welding Fabr – Certification
WKEXP 19	Work Experience (Cooperative), Occupational		COTR 19V	Cooperative Work Experience Education
WKEXP 19	Work Experience (Cooperative), General		COTR 19G	Cooperative Work Experience Education

Courses

Administration of Justice (AJ)

New course   *effective Fall 2004*
221   Explosive Recognition for First Responders, .5 units, 8.4 lecture hours, 8.4 lab hours, (1 week), (Credit/No Credit), (Repeats = 3)
    Prerequisite: Administration of Justice 270 or sworn full-time peace officer.
    Basic techniques and procedures for explosives recognition for the first responder. Materials and range fee will be charged.

Delete course   *effective Fall 2005*
260   Police Cadet Administration, 3 units, 1 lecture hour, 6 lab hours by arrangement, (Repeats = 1)

Delete course   *effective Fall 2005*

261   Fresno City College Police Cadet Field, 3 units, 1 lecture hour, 6 lab hours by arrangement, (Repeats = 1)

New course   *effective Fall 2005*
269   Advanced Officer Topics, 0.1-0.5 units, 1-25.2 lecture hours, 1-25.2 lab hours, (1 week), (Credit/No Credit), (Unlimited Repeats)
       Prerequisite: Administration of Justice 270 or sworn full-time peace officer.
       Satisfies mandatory yearly requirements of the California Commission on Peace Officer Standards and Training (POST) for advanced officer training. May be offered in seminar, lecture, and/or laboratory format. Examination of topics, current trends, and/or issues as mandated by POST and not covered by regular catalog offerings. Course content to be determined by POST.

Change: prerequisite   *effective Fall 2005*
271   Basic Reserve Police Academy, Level III, Part 1, PC 832, 3 units, 2.75 lecture hours, 1 lab hour, (Repeats = 3), (Formerly Administration of Justice 71)
       Prerequisite: Demonstration of physical ability to use a firearm with safety. Must obtain a Department of Justice clearance for firearms possession prior to the firearms portion of the class.
       Basics in arrest and control techniques and the use of firearms to fulfill the requirements of Section 832 (Level III) of the California Penal Code. Materials and range fee will be charged.

Change: prerequisite   *effective Fall 2005*
271A PC 832 (Intensive Format), 0.5-1.5 units, 6-27 lecture hours, 6.6 lab hours, (2 weeks), (Credit/No Credit), (Repeats = 3)
       Prerequisite: Must be able to demonstrate physical ability to use a firearm and to perform arrest and control techniques in a safe manner. Must obtain a Department of Justice clearance for firearms possession prior to the firearms portion of the class.
       Basics in arrest and control techniques and the use of firearms to fulfill the requirements of Section 832 of the California Penal Code. Materials and range fee will be charged.

New course   *effective Spring 2005*
279A Citizens on Patrol, 0.5 units, 4 lecture hours, 2.4 lab hours, (5 weeks), (Credit/No Credit)
       Prerequisite: None.
       Introduction/orientation to the mission, policies, and procedures of a law enforcement department. Prepares students for service as a department volunteer.

Change: prerequisite   *effective Fall 2005*
282   PC 832 and Expandable Baton (Intensive Format), 1.5 units, 27 lecture hours, 10.8 lab hours, (2 weeks), (Credit/No Credit), (Repeats = 3)
       Prerequisite: Demonstration of physical ability to use a firearm safely. Must obtain a Department of Justice clearance for firearms possession prior to the firearms portion of the class.
       Basics in arrest and control techniques and the use of firearms to fulfill the requirements of Section 832 of the California Penal Code. Materials and range fee will be charged.

Change: prerequisite   *effective Fall 2005*
297   Baton and Defense Tactics Seminar, 0.2 units, 6.5 lecture hours, 2 lab hours, (1 week), (Credit/No Credit), (Repeats = 3), (Formerly Administration of Justice 76 and Administration of Justice 97)
       Prerequisite: Administration of Justice 270 or sworn peace officer or reserve officer.
       Use of baton and technique for various holds through demonstration and practice. Materials fee will be charged.

Aerospace Studies (AEROST)

Change: description   *effective Fall 2005*
2A   The Evolution of USAF and Space Power, 1 unit, 1 lecture hour
       Prerequisite: None.
       Factors contributing to the development of air power from its earliest beginnings through the present conflicts in Afghanistan and Iraq; the evolution of air power concepts and doctrine; and an assessment of communications skills. (A, CSU, UC)

Change: description   *effective Fall 2005*
2B   **The Evolution of USAF and Space Power, 1 unit, 1 lecture hour**
     Prerequisite: None.

     Factors contributing to the development of air power from its earliest beginnings through the present conflicts in Afghanistan and Iraq; the evolution of air power concepts and doctrine; and an assessment of communications skills. (A, CSU, UC)

Change: correct credit/no credit grading status
3   **Leadership Laboratory, 1 unit, 3 lab hours, (Credit/No Credit), (Repeats = 3)**
     Prerequisite: None.

     A practicum of Air Force customs and courtesies, issuing military commands, instructing, directing and evaluating the preceding skills, studying the environment of an Air Force officer and learning about areas of opportunity available to commissioned officers. (A, CSU, UC)

Air Conditioning (AC)

New course   *effective Spring 2005*
55   **Technician Testing and Certification, 1 unit, 2 lecture hours, (9 weeks), (Repeats = 3)**
     Advisory: Air Conditioning 50, 51, 52, 53, 54, 56 and eligibility for English 125 and 126 or English 153 or ESL 67 and 68 and Math 101 or Applied Technology 130 recommended. Air Conditioning 53, 54 and 56 may be taken concurrently.

     Prepares students/technicians for specific HVAC industry competency, licensing, and certification examinations. Those exams may include, but are not necessarily limited to, EPA Section 608 (proper refrigerant handling techniques), R-410A safety certification, Air-Conditioning and Refrigeration Institute's (ARI) Industry Competency Exam(s) (ICE) and North American Technician Excellence (NATE) Installation/Service Technician Certification(s). Substantial out-of-class study will be required to prepare for each exam. The exams are an integral part of the course and will be conducted by an approved proctor for each organization. In addition to normal registration fees, all test fees imposed by competency, licensing and certifying organizations are the responsibility of the student. (A, CSU)

New course   *effective Spring 2005*
57   **System Configuration and Control, 2 units, 2 lecture hours, (Repeats = 3)**
     Advisory: Applied Technology 10, eligibility for English 125 and 126 or English 153 or ESL 67 and 68 and Math 101 or Applied Technology 130 recommended.

     Uses energy management software to identify air conditioning system configurations and control strategies. (A, CSU)

New course   *effective Spring 2005*
250   **Digital Unitary Controls, 2 units, 2 lecture hours, 1 lab hour, (Repeats = 3)**
     Advisory: Applied Technology 10, Air Conditioning 57, eligibility for English 125 and 126 or English 153 or ESL 67 and 68 and Math 101 or Applied Technology 130 recommended.

     Principles and application of unitary digital controls.

New course   *effective Spring 2005*
251   **Digital VAV Controls, 1 unit, 1.5 lecture hours, 1.5 lab yours, (9 weeks), (Repeats = 3)**
     Advisory: Applied Technology 10, Air Conditioning 57, eligibility for English 125 and 126 or English 153 or ESL 67 and 68 and Math 101 or Applied Technology 130 recommended.

     Principles and application of digital variable air volume controls.

New course   *effective Spring 2005*
252   **DDC Network Controllers, 2 units, 2 lecture hours, 1 lab hour, (Repeats = 3)**
     Advisory: Applied Technology 10, Air Conditioning 57, eligibility for English 125 and 126 or English 153 or ESL 67 and 68 and Math 101 or Applied Technology 130 recommended.

     Principles and application of network controllers.

Anthropology (ANTHRO)

Change: correct transfer designation
4   Introduction to Archaeology: Methods and Theory, 3 units, 3 lecture hours
        (A, CSU, UC)

Change: correct transfer designation
30   Topics in Anthropology, 1-4 units, 1-3 lecture hours, 0-9 lab hours, (Repeats = 3)
        (A, CSU, UC), (UC approved as variable topics; evaluation completed by individual campuses upon admission.)

Applied Technology (AT)

Change: description   *effective Fall 2005*
10   Technical Computer Applications, 2 units, 1 lecture hour, 2 lab hours, (Formerly Industrial Education 23)
        Prerequisite: None.
        An introduction to computers, their use, and the development of general computer skills for technical programs.
Fulfills the computer literacy graduation requirement. (A, CSU)

Architecture (ARCH)

Change: prerequisite   *effective Fall 2005*
20   Basic Graphics, 2 units, 1 lecture hour, 3 lab hours
        Prerequisite: Architecture 10 or Drafting 12.
        Drawing as a communication tool in environmental design. Representation of ideas through the use of various
artistic media. (A, CSU-GE, UC)

Art (ART)

Change: correct CAN designation (add)
5H   Honors Art History 1, 3 units, 3 lecture hours, (Formerly Honors 5A)
        (CAN ART 2) (A, CSU-GE, UC, I)

Change: correct CAN designation (add)
6H   Honors Art History 2, 3 units, 3 lecture hours, (Formerly Honors 6A)
        (CAN ART 4) (A, CSU-GE, UC, I)

Change: correct transfer designation
7   Beginning Drawing, 3 units, 2 lecture hours, 4 lab hours, (Formerly Art 7A)
        (A, CSU-GE, UC)

Change: correct transfer designation
12B   Intermediate Crafts: Living Transitions, 3 units, 2 lecture hours, 4 lab hours, (Repeats = 3)
        (A, CSU-GE)

Change: transfer designation   *effective Fall 2004*
25   Mural Painting, 3 units, 2 lecture hours, 4 lab hours, (Repeats = 2)
        (A, CSU, UC)

Change: transfer designation   *effective Fall 2004*
28   Advanced Figure Drawing and Anatomy, 3 units, 2 lecture hours, 4 lab hours, (Repeats = 1)
        (A, CSU, UC)

Asian-American Studies (ASAMER)

Change: correct transfer designation
1   The Indo-Chinese American, 3 units, 3 lecture hours
(A, CSU-GE, UC)

Change: transfer designation   *effective Fall 2004*
30   Asian-American Women, 3 units, 3 lecture hours, (See also Women's Studies 30)
(A, CSU, UC)

Automotive Mechanics (AMCTC)

Delete course   *effective Fall 2005*
373   Brakes, Suspension and Steering, 0 units, 10 lecture hours, 20 lab hours, (20 weeks), (600 total hours), (Repeats = 3)

Biology (BIOL)

Change: prerequisite, description   *effective Fall 2005*
1   Principles of Biology, 4 units, 3 lecture hours, 2 lab hours
    Prerequisite: Math 103. **Advisory:** Eligibility for English 125 and English 126 or English 153 or ESL 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. Recommended for life science majors. Fulfills prerequisite for Biol 4, Biol 6, Biol 7, Biol 20, Biol 24, and Biol 31. (CAN BIOL 2) (A, CSU-GE, UC, I)

Change: prerequisite, description   *effective Fall 2005*
1H   Honors Principles of Biology, 4 units, 3 lecture hours, 2 lab hours, (Formerly Honors 1B)
    Prerequisite: Math 103. **Advisory:** Meet the qualifications for consideration for acceptance into the Honors Program 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, biological classification and diversity, and ecology, with evolution as the unifying theme. 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. (CAN BIOL 2) (A, CSU-GE, UC, I)

Change: prerequisite   *effective Fall 2005*
4   Principles of Zoology, 5 units, 3 lecture hours, 6 lab hours, (Formerly Zoology 1)
    Prerequisite: Biology 1, Biology 5 or Biology 3 (B Grade strongly recommended) or equivalent. Math 103 or equivalent. Completion within the last 5 years recommended. **Advisory:** Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
    Animal forms using the phylogenetic approach including morphology, physiology, and ecology relative to the major phyla. Field trips required. (CAN BIOL 4) (A, CSU-GE, UC, I)

Change: advisory   *effective Fall 2005*
5   Human Biology, 4 units, 3 lecture hours, 2 lab hours
    Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 and Math 103 recommended.
    An overview of the cellular, molecular, genetic, and systems basis of life with and emphasis on the human body. For allied health majors. Fulfills prerequisites for Biology 20, 24, 31. (A, CSU-GE, UC, I)

Change: prerequisite   *effective Fall 2005*
6   Principles of Botany, 5 units, 3 lecture hours, 6 lab hours, (Formerly Botany 1)
    Prerequisite: Biology 3 with a grade of B or better, Biology 1, or equivalent. Math 103 or equivalent. Completion within the last 5 years recommended. **Advisory:** Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.

Morphological, physiological, ecological, genetic, and taxonomic relationships with emphasis on seed plants. Field trips required. (CAN BIOL 6) (A, CSU-GE, UC, I)

New course *effective Spring 2005*
9 Introduction to Life Science, 3 units, 2 lecture hours, 2 lab hours
Prerequisite: Natural Science 1A. **Corequisite:** Geology 9. **Advisory:** Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.

An integrated approach using biological principles and concepts to explore ecological processes, biotic diversity, and biological change through time. Required concurrent enrollment in Geology 9 will facilitate the study of the interrelationships between biological and geological processes. For transfer Liberal Studies Blended Major students. (A, CSU, UC)

Change: correct transfer designation
22 Human Physiology, 5 units, 4 lecture hours, 3 lab hours
(A, CSU-GE, UC, I)

Building Safety and Code Administration (BSCA)

Change: title, description *effective Fall 2005*
17 National Electrical Code Part 1, 3 units, 3 lecture hours, (Repeats = 3), (See also Electrical Systems Technology 96A).
Prerequisite: None.

Application of all rules for engineering, designing, installing, maintaining, and inspecting electrical systems. Designed for newcomers and professionals seeking preparation for obtaining additional certifications or further knowledge. Branch circuits, electrical services, overcurrent protection and grounding part 1. (A, CSU)

New course *effective Fall 2005*
27 National Electrical Code Part 2, 3 units, 3 lecture hours, (Repeats = 3), (See also Electrical Systems Technology 96B)
Prerequisite: None.

Application of the rules for engineering, designing, installing, maintaining, and inspecting installations. Designed for newcomers to the electrical industry and professionals seeking preparation for obtaining additional certifications or further knowledge. General wiring, motors, controls, transformers, other equipment and grounding. (A, CSU)

New course *effective Fall 2005*
37 National Electrical Code Part 3, 3 units, 3 lecture hours, (Repeats = 3), (See also Electrical Systems Technology 96C)
Prerequisite: None.

Application of the rules for engineering, designing, installing, maintaining, and inspecting installations. Designed for newcomers to the electrical industry and professionals seeking preparation for obtaining additional certifications or further knowledge. General wiring, motors, controls, transformers, other equipment and grounding. (A, CSU)

New course *effective Fall 2005*
47 National Electrical Code–Electrical Safety, 3 units, 3 lecture hours, (Repeats = 3), (See also Electrical Systems Technology 96D)
Prerequisite: None.
Fundamentals of electrical safety as required by NFPA Document 70E. (A, CSU)

Business Administration (BA)

New course *effective Spring 2006*
11 Introduction to Hospitality Management, 3 units, 3 lecture hours
Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68, and Math 101 recommended.

A comprehensive tour of the fascinating and dynamic hospitality industry from a marketing and management perspective: travel and tourism, lodging, foodservice, meetings, conventions and expositions, leisure and recreation. (A, CSU)

Change: correct transfer designation
18 Business and the Legal Environment, 4 units, 4 lecture hours, (Formerly BA 18A)
   (A, CSU, UC)

New course   *effective Spring 2006*
23 Legal Concepts and Terminology, 3 units, 3 lecture hours
   Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
   Concepts of American law and legal terminology. A basic overview of institutional sources of law; legal reasoning; judicial decision making and remedies; an overview of the civil and criminal litigation process; alternative dispute resolution mechanisms; ethics and the legal system. (A, CSU)

Change: title   *effective Fall 2005*
27 Students in Free Enterprise SIFE, 1-3 units: 1 unit, 1 lecture hour; 2 units, 1 lecture hour, 3 lab hours; 3 units, 1 lecture hour, 6 lab hours, (Repeats = 3)
   Advisory: Eligibility for English 125 and 126 or English 153 or ESL 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. (A, CSU)

Business & Technology (BT)

Change: description   *effective Spring 2005*
2 Word Processing I, 3 units, 3 lecture hours, 2 lab hours, (Formerly Business Information Processing 2)
   Advisory: Business & Technology 1 or keyboard 25 words per minute and ability to keyboard by touch. Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
   Building typing speed and accuracy; producing and formatting advanced correspondence, letters, memos, reports, tables, and business forms using a current word processing program. Fulfills the computer literacy graduation requirement. (A, CSU)

Delete course   *effective Spring 2006*
3 Word Processing II-Advanced Applications, 6 units, 6 lecture hours, 4 lab hours, (Formerly Business Information Processing 12)

Change: number, description   *effective Spring 2006*
6 Records Management, 3 units, 3 lecture hours, 1 lab hour, (Formerly Business Information Processing 10 and Business & Technology 10)
   Advisory: Typing 25 words per minute. Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
   An introduction to filing methods and principles for all Business & Technology majors and employees in the business community. Internationally applied rules of records management for manual and computerized systems used to create and maintain filing systems. Mastery of alphabetic, geographic, numeric and subject filing. (A, CSU)

Change: units, hours, description   *effective Spring 2005*
9 Computer Applications, 4 units, 3 lecture hours, 3 lab hours, (Formerly Business Information Processing 9)
   Advisory: Typing 25 words per minute. Eligibility for English 125 and 126 or English 153 or ESL 67 and 68, and Math 101 recommended.
   An introduction to integrated software for office application using microcomputers, including the concepts of word processing, spreadsheets, graphics, database, and electronic communication, using Microsoft Office. Fulfills the computer literacy graduation requirement. (A, CSU)

New course   *effective Spring 2006*
10 Computer Applications II, 4 units, 3 lecture hours, 3 lab hours
   Prerequisite: Business & Technology 9 or equivalent.
   Intermediate level topics in integrated software for office applications using microcomputers, including word processing, spreadsheets, graphics, database, and electronic communication, using Microsoft Office. Fulfills the computer literacy graduation requirement. (A, CSU)

Change: description, cross-listed course *effective Fall 2005*
14   Windows, 1.5 units, 3 lecture hours, 2 lab hours, (9 weeks), (See also Computer Information Technology 17), (Formerly Business Information Processing 14)
Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
Hands-on operation of Microsoft Windows. Fulfills the computer literacy graduation requirement. (A, CSU)

Change: cross-listed course *effective Fall 2005*
18   Spreadsheet Fundamentals, 1.5 units, 3 lecture hours, 1 lab hour, (9 weeks), (See also Computer Information Technology 23), (Formerly Business Information Processing 18)
Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 and Math 101 recommended.
Creating formatting a worksheet, using formulas and functions, and creating graphs, integrating spreadsheets with other programs and the World Wide Web; and creating macros. Additional lab hours in CIT 260 or BT 250 available for students to complete homework assignments. (A, CSU)

Change: cross-listed course *effective Fall 2005*
24   Beginning Excel, 1 unit, 1 lecture hour, 2 lab hours, (9 weeks), (See also Computer Information Technology 31), (Formerly Business Information Processing 24)
Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 and Math 101 recommended.
Creating a worksheet, formatting the worksheet, using formulas and functions, and creating graphs. Additional lab hours in CIT 260 and BT 250 available for students to complete homework assignments. (A, CSU)

Change: prerequisite, cross-listed course *effective Fall 2005*
25   Microsoft Office, 3 units, 3 lecture hours, 1 lab hour, (See also Computer Information Technology 20), (Formerly Business Information Processing 25)
Prerequisite: Computer Information Technology 12 or Computer Information Technology 15.
The major software components of the Microsoft Office suite: Word, Excel, Access, and PowerPoint. Working within the Windows graphical user interface, creating applications and sharing data files to develop solutions that use more than one component of the suite. (A, CSU)

Change: description, cross-listed course *effective Fall 2005*
26   Database Fundamentals, 1.5 units, 3 lecture hours, 1 lab hour, (9 weeks), (See also Computer Information Technology 26), (Formerly Business Information Processing 26)
Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
Creating database files; entering data; modifying database file structure; and designing queries, reports and forms. Integrating a database with other programs and creating hyperlinks on the World Wide Web. Additional lab hours in CIT 260 and BT 250 available for students to complete homework assignments. (A, CSU)

Change: description *effective Spring 2005*
28   Microsoft Word I, 1.5 units, 3 lecture hours, 2 lab hours, (9 weeks), (Repeats = 3), (Formerly Business Information Processing 28)
Advisory: Business & Technology 106 or equivalent. Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
Basic features of MS Word. Designed to equip students with the skills to prepare personal correspondence and reports. Fulfills the computer literacy graduation requirement. (A, CSU)

New course *effective Spring 2005*
251   Office Application Skills Lab, 0.2-1 unit, 0.6-3 lab hours, (16 weeks), (Credit/No Credit), (Repeats = 3), (Open Entry/Open Exit)
Prerequisite: None.
Supervised use of ten-key calculators, typing software or office computer applications. Reinforcement of concepts from classroom studies and development of problem solving abilities on an independent basis. Grade based on hours worked in lab.
    (a) .2 units for minimum of 10 hours, maximum of 12 hours
    (b) .4 units for minimum of 19 hours, maximum of 21 hours
    (c) .6 units for minimum of 29 hours, maximum of 31 hours
    (d) .8 units for minimum of 39 hours, maximum of 44 hours
    (e) 1 unit for minimum of 48 hours

Chemistry (CHEM)

Change: correct transfer designation
1B   General Chemistry and Qualitative Analysis, 5 units, 3 lecture hours, 6 lab hours
         (A, CSU-GE, UC, I)

Change: correct transfer designation
8A   Elementary Organic Chemistry, 3 units, 3 lecture hours
         (A, CSU-GE, UC, I)

Chicano-Latino Studies (CLS)

Change: correct title
24   LaChicana and Latina, 3 units, 3 lecture hours, (See also Women's Studies 24)

Change: prerequisite   *effective Fall 2004*
27   Advanced Mexican Folklorico Dance, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3), (See also Dance 27)
         Prerequisite: Chicano-Latino Studies/Dance 17, or demonstration of comparable skill level to be determined by testing at first class session. **Advisory:** Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
         History and origin of Mexican dance. Mexican songs and folktales, and how they are interpreted through Mexican dance. Dances practiced and performed at the advanced level. (A, CSU-GE, UC)

Change: correct transfer designation
29   History of Mexico, Colonial to Contemporary Period, 3 units, 3 lecture hours, (Formerly Cultural Studies 29), (See also History 29)
         (A, CSU-GE, UC, I)

Child Development (CHDEV)

Change: title, description   *effective Spring 2005*
7A   Advanced Infant Toddler Development and Care, 3 units, 3 lecture hours
         Prerequisite: Child Development 7. **Advisory:** Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
         Infant development, caregiving and early intervention as it relates to program design. Exploration of brain development and discoveries in infancy. Issues related to working with families effectively and cultural sensitivity in the early care and education setting. (A, CSU)

New course   *effective Spring 2005*
16   Introduction to Early Intervention, 3 units, 2 lecture hours, 3 lab hours
         Prerequisite: Child Development 11. **Advisory:** Child Development 7 and eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
         Core course for the Early Intervention Assistant Certificate. Studies infants and toddlers with disabilities, atypical development or other special needs, both in the Early Intervention setting and in the Child Care setting. Explores strategies and interventions used in the field of Early Intervention. Current theories in Early Intervention, early relationships, family systems, grief processing and stressors will be studied. (A, CSU)

Change: description   *effective Fall 2005*
46   Computers in Early Childhood Education, 3 units, 3 lecture hours
         Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
         Introduction to the basic technology and applications of the computer in Early Childhood Education. Includes computer-aided instruction (CAI) for program management in areas of record keeping, inventory, newsletters, state reports, mailing lists, and budgeting. CAI will allow students to explore applications for children to enhance learning, creativity, problem-solving, art concepts, literature, and language. Fulfills the computer literacy graduation requirement for Child Development majors only. (A, CSU)

Change: subject   *effective Fall 2005*
Computer Information Technology (CIT)
Formerly *Information Systems (IS)*

Change: subject, description   *effective Fall 2005*
12   Computer Literacy, 3 units, 3 lecture hours, l lab hour, (Formerly Computer Information Systems 56 and Information Systems 12)
    Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
    Basic introduction to computers and their usage. Basic principles of hardware and software; shopping for a personal computer; social issues associated with the role of computers in the world today; and an introduction to word processing, spreadsheets, and Internet principles and usage. Fulfills the computer literacy graduation requirement. (CAN CSCI 2) (A, CSU, UC)

Change: subject, description   *effective Fall 2005*
15   Computer Concepts, 3 units, 3 lecture hours, 1 lab hour, (Formerly Computer Information Systems 15 and Information Systems 15)
    Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 and Math 101 recommended.
    Introduction to computers and their use. Topics include basic principles of hardware and software, application programs, systems software, telecommunications, networks, program design, the Internet, and the World Wide Web. Students will work with Windows and the Internet; word processing, spreadsheet, and database programs; and a programming language. Fulfills the computer literacy graduation requirement. (CAN BUS 6) (A, CSU, UC)

Change: subject, number, description   *effective Fall 2005*
17   Windows, 1.5 units, 3 lecture hours, 2 lab hours, (9 weeks), (See also Business & Technology 14), (Formerly Computer Information Systems 14 and Information Systems 14)
    Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
    Hands-on operation of Microsoft Windows. Fulfills the computer literacy graduation requirement. (A, CSU)

Change: subject   *effective Fall 2005*
19   Work Experience (Cooperative), Occupational, 1-4 units, 1 lecture hour, (Repeats = 3), (Formerly Information Systems 19)
    Corequisite: Fall and Spring Semesters: Must be enrolled in a minimum of 7 units, including work experience. Summer Session: Must be enrolled in at least one other course. Supervised employment directly related to the student's major. Offered under specific majors.
    Success on the job, including interpersonal, problem solving, and communication skills; office dynamics and adapting to change. Group interaction. Collaborative learning activities specific to Computer Information Technology. Learning objectives established specific to computer information technology. Seventy-five hours of paid employment or 60 hours of volunteer employment per unit per semester. Maximum of 4 units per semester, 16 units total. May be repeated up to three times for not more than 16 units total. (A, CSU)

Change: subject, number, prerequisite   *effective Fall 2005*
20   Microsoft Office, 3 units, 3 lecture hours, 1 lab hour, (See also Business & Technology 25), (Formerly Information Systems 25)
    Prerequisite: Computer Information Technology 12 or Computer Information Technology 15.
    The major software components of the Microsoft Office suite: Word, Excel, Access, and PowerPoint. Working within the Windows graphical user interface, creating applications and sharing data files to develop solutions that use more than one component of the suite. (A, CSU)

Change: subject, number, prerequisite, advisory   *effective Fall 2005*
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.
    Advanced integration of the major software components of Microsoft Office Suite: Word, Excel, Access, PowerPoint, and Outlook. Includes the use of Visual Basic for Applications (VBS) to create macros. Advanced topics such as style sheets, 3-D workbooks, file linking, multiple table queries, macros and prototyping. (A, CSU)

Change: subject, number   *effective Fall 2005*
23   Spreadsheet Fundamentals, 1.5 units, 3 lecture hours, 1 lab hour, (9 weeks), (See also Business & Technology 18), (Formerly Information Systems 5 and Information Systems 18)
Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 and Math 101 recommended.
Creating and formatting a worksheet, using formulas and functions, and creating graphs; integrating spreadsheets with other programs and the World Wide Web; and creating macros. Additional lab hours in CIT 260 or BT 250 available for students to complete homework assignments. (A, CSU)

Change: subject, number, prerequisite, advisory   *effective Fall 2005*
24   Advanced Spreadsheets, 1.5 units, 3 lecture hours, 1 lab hour, (9 weeks), (Formerly Information Systems 20)
Prerequisite: Computer Information Technology 23 or Business & Technology 18. **Advisory:** None.
Advanced capabilities of spreadsheets. Solving complex problems using spreadsheets, creating and using macros, creating data tables, working with multiple worksheets and workbooks, and using Visual BASIC to enhance a spreadsheet. (A, CSU)

Change: subject, description   *effective Fall 2005*
26   Database Fundamentals, 1.5 units, 3 lecture hours, 1 lab hour, (9 weeks), (See also Business & Technology 26), (Formerly Information Systems 6 and Information Systems 26)
Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
Creating database files, entering data, modifying database file structure, designing queries, reports and forms. (A, CSU)

Change: subject, prerequisite, advisory   *effective Fall 2005*
27   Advanced Database, 1.5 units, 3 lecture hours, 1 lab hour, (9 weeks), (Formerly Computer Information Systems 40 and Information Systems 27)
Prerequisite: Computer Information Technology 26 or Business & Technology 26. **Advisory:** None.
Using a database program to perform advanced queries, automate tasks using macros, customize toolbars and menus, using Visual BASIC for applications to customize Access. (A, CSU)

Change: subject, number   *effective Fall 2005*
29   PowerPoint, 1 unit, 1 lecture hour, 2 lab hours, (9 weeks), (Formerly Information Systems 32)
Prerequisite: None.
Using PowerPoint to create presentations. Topics include designing presentations, creating presentations, adding effects, running a presentation, and creating support documents for the presentation. (A, CSU)

Change: subject, number   *effective Fall 2005*
31   Beginning Excel, 1 unit, 1 lecture hour, 2 lab hours, (9 weeks), (See also Business & Technology 24), (Formerly Information Systems 24 and Information Systems 74)
Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 and Math 101 recommended.
Creating a worksheet, formatting the worksheet, using formulas and functions, and creating graphs. Additional lab hours in CIT 260 and BT 250 available for students to complete homework assignments. (A, CSU)

Change: subject, number, prerequisite, description, repeatability   *effective Fall 2005*
40   Computer Operating Systems, 3 units, 3 lecture hours, 2 lab hours, (Repeats = 1), (Formerly Information Systems 22)
Prerequisite: Computer Information Technology 12 or Computer Information Technology 15.
Principles of computer operating systems. A survey and comparison of the graphical user interface along with the command line interface using various operating systems such as Microsoft Windows and Linux, etc. (A, CSU)

Change: subject, number, prerequisite, repeatability   *effective Fall 2005*
45   Data Communications, 3 units, 3 lecture hours, 1 lab hour, (Repeats = 1), (Formerly Computer Information Systems 17 and Information Systems 17)
Prerequisite: Computer Information Technology 15.
Essential elements that make up data communications including transmission media, local area networks, wide area networks, network interconnections, network management, security, network applications, and related technologies. (A, CSU)

Change: subject, number, prerequisite, repeatability   *effective Fall 2005*
50   Fundamentals of Networking, 4 units, 4 lecture hours, 1 lab hour, (Repeats = 2), (Formerly Information Systems 28, Information Systems 30, and Information Systems 30A.)
         Prerequisite: Computer Information Technology 45.
         Fundamentals of computer network design, installation, software and communication links. (A, CSU)

Change: subject, number, title, prerequisite, corequisite, advisory, description, repeatability   *effective Fall 2005*
51   MCSE Network Infrastructure, 4 units, 4 lecture hours, 1 lab hour, (Repeats = 2), (Formerly Information systems 30B)
         Prerequisite: Computer Information Technology 45. **Corequisite:** None. **Advisory:** Computer Information Technology 50 recommended.
         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. (A, CSU)

Change: subject, number, title, prerequisite, corequisite, advisory, description, repeatability   *effective Fall 2005*
52   MCSE Directory Services, 4 units, 4 lecture hours, 1 lab hour, (Repeats = 2), (Formerly Information Systems 30C)
         Prerequisite: Computer Information Technology 45. **Corequisite:** None. **Advisory:** Computer Information Technology 50 recommended.
         Install, configure, and administer "Active Directory" directory services, which is the directory service for Microsoft Windows. Implementing and configuring "Group Policy" to centrally manage large numbers of users and computers. Prepare students for the MCSE exam. (A, CSU)

Change: subject, number, title, prerequisite, advisory, description, repeatability   *effective Fall 2005*
53   MCSE Directory Infrastructure, 2 units, 4 lecture hours, 1 lab hour, (9 weeks), (Repeats = 2), (Formerly Information Systems 30D)
         Prerequisite: Computer Information Technology 45. **Advisory:** Computer Information Technology 50 recommended.
         Design a Microsoft Windows directory services infrastructure in an enterprise environment. Identify the business and administrative needs of an organization that impact the design of Active Directory. Key decision points for naming, delegation of authority, domain design, and site topology design. Prepare students for the MCSE exam. (A, CSU)

Change: subject, number, title, prerequisite, advisory, description, repeatability   *effective Fall 2005*
54   MCSE Network Services, 2 units, 4 lecture hours, 1 lab hour, (9 weeks), (Repeats = 2), (Formerly Information Systems 30E)
         Prerequisite: Computer Information Technology 45. **Advisory:** Computer Information Technology 50 recommended.
         Design a Microsoft Windows networking services infrastructure that supports the required network applications. Basic functionality, security, availability, and performance features of each networking service as aspects of a networking services design. Prepares students for the MCSE exam. (A, CSU)

Change: subject, number, title, prerequisite, advisory, description, repeatability   *effective Fall 2005*
55   MCSE Network Security, 4 units, 4 lecture hours, 1 lab hour, (Repeats = 2), (Formerly Information Systems 30F)
         Prerequisite: Computer Information Technology 45. **Advisory:** Computer Information Technology 50 recommended.
         Design a security framework for small, medium, and enterprise networks by using Microsoft Windows technologies. Prepare students for the MCSE exam. (A, CSU)

Change: subject, number, title, prerequisite, advisory, description, repeatability   *effective Fall 2005*
56   MCSE ISA, 4 units, 4 lecture hours, 1 lab hour, (Repeats = 2), (Formerly Information Systems 30G)
         Prerequisite: Computer Information Technology 45. **Advisory:** Computer Information Technology 50 recommended.
         Implement, administer, and support a Microsoft Internet Acceleration Server (IAS). Install, configure and support a Microsoft ISA Server. Prepare students for the MCSE exam. (A, CSU)

Change: subject, number, title, prerequisite, advisory *effective Fall 2005*
60 Beginning Visual Basic, 3 units, 3 lecture hours, 1 lab hour, (Formerly Information Systems 35 and Information Systems 47)
    Prerequisite: Computer Information Technology 15. **Advisory:** None.

    Introduction to programming in Visual Basic. Development of applications using standard Windows elements such as command buttons, and check, option and list boxes. Emphasis on structured program design, including debugging, testing, and documentation. (CAN CSCI 6) (A, CSU, UC)

Change: subject, number, prerequisite, advisory, description *effective Fall 2005*
61 Advanced Visual Basic, 3 units, 3 lecture hours, 1 lab hour, (Formerly Information Systems 49)
    Prerequisite: Computer Information Technology 60. **Advisory:** None.

    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, the Visual Basic Data Control. (A, CSU, UC)

Change: subject, number, prerequisite, advisory *effective Fall 2005*
63 Beginning Java Programming, 3 units, 3 lecture hours, 1 lab hour, (Formerly Information Systems 39 and Information Systems 33)
    Prerequisite: Computer Information Technology 15. **Advisory:** None.

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

Change: subject, number, prerequisite, advisory *effective Fall 2005*
64 Advanced Java Programming, 3 units, 3 lecture hours, 1 lab hour, (Formerly Information Systems 34)
    Prerequisite: Computer Information Technology 63. **Advisory:** None.

    Introduction to 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: subject, number, prerequisite, correct CAN designation (delete) *effective Fall 2005*
66 Beginning C++ Programming, 3 units, 3 lecture hours, 1 lab hour, (Formerly Information Systems 36)
    Prerequisite: Computer Information Technology 15.

    Software development using the C++ programming language. Emphasis on object-oriented design, computations, strings, pointers, functions, classes, and objects. (A, CSU, UC)

Change: subject, number, prerequisite *effective Fall 2005*
67 Advanced C++ Programming, 3 units, 3 lecture hours, 1 lab hour, (Formerly Information Systems 37)
    Prerequisite: Computer Information Technology 66.

    Build on the C++ programming concepts covered in the beginning class. How to design and use loops, decisions, structures, functions, objects, and classes. How to use arrays, pointers, memory allocation, linked lists, sorting techniques, operator overloading, inheritance, and graphics. (A, CSU, UC)

New course *effective Fall 2005*
68 Advanced Programming Applications, 3 units, 3 lecture hours, 2 lab hours, (Repeats = 1)
    Prerequisite: Computer Information Technology 60, Computer Information Technology 63, or Computer Information Technology 66.

    Developing programming applications using a variety of programming languages such as Java, C++.NET, Visual Basic.NET. Application development will emphasize the use of object-orientated programming, control structures, methods, arrays, inheritance, and graphical-user interface, etc. (A, CSU)

Change: subject, number, advisory, description *effective Fall 2005*
80 Internet Basics, 1.5 units, 3 lecture hours, 1 lab hour, (9 weeks), (Formerly Information Systems 7 and Information Systems 40)
    Prerequisite: None. **Advisory:** None.

    Hands-on introduction to the Internet and the World Wide Web, including the use of e-mail, Usenet news groups, discussion boards, browser basics, and FTP. Brief introduction to searching the Web. History of the Internet, how to get connected to the Internet from you home or office computer, Internet ethics, e-commerce, and Netiquette. (A, CSU)

Change: subject, number, advisory   *effective Fall 2005*
81   World Wide Web Research, 1.5 units, 3 lecture hours, 1 lab hour, (9 weeks), (Formerly Information Systems 8 and Information Systems 41)
Advisory: Computer Information Technology 12 or Computer Information Technology 15 recommended.
Using the World Wide Web for research. Topics include browsers, search engines, Boolean logic, and URLs. Requires preparing and presenting reports from the research. (CAN CSCI 24) (A, CSU)

Change: subject, number, prerequisite   *effective Fall 2005*
86   Web Page Development I, 1.5 units, 3 lecture hours, 1 lab hour, (9 weeks), (Formerly Information Systems 23)
Prerequisite: Computer Information Technology 12, or Computer Information Technology 15 and Computer Information Technology 80.
Designing web pages for the Internet using a web page design language. (A, CSU)

Change: subject, number, prerequisite, description   *effective Fall 2005*
87   Web Page Development II, 1.5 units, 3 lecture hours, 1 lab hour, (9 weeks), (Formerly Information Systems 24)
Prerequisite: Computer Information Technology 86.
Designing web pages for the Internet using a web page design language. (A, CSU)

Change: subject, number, title, prerequisite, advisory, description   *effective Fall 2005*
90   Data Driven Websites Using Dreamweaver, 3 units, 3 lecture hours, 1 lab hour, (Formerly Information Systems 28)
Prerequisite: Computer Information Technology 15. **Advisory:** Graphic Communications 15 or 25; Computer Information Technology 86 recommended.
Deploying dynamic websites using Macromedia Dreamweaver and Microsoft Access. Understanding Web-Servers & Application Servers; Designing a database; Querying a database; Introduction to SQL; Creating forms; Validating form data; Inserting, updating, & deleting database records; Retrieving data; Displaying database data in web pages; Creating search forms; Creating dynamic form objects; Authenticating users; Maintaining state: Application Server Programming logic. (A, CSU)

New course   *effective Fall 2005*
93   Beginning JavaScript, 3 units, 3 lecture hours, 1 lab hour
Prerequisite: Computer Information Technology 86.
Fundamentals of JavaScript to add interactivity to HTML/XML web pages and web sites on the Internet. Topics include writing functions, using data from forms, buttons, menus, and text boxes, and using if conditional statements and program loops to make web pages "smarter". (A, CSU)

New course   *effective Fall 2005*
202   Introduction to Online Learning, 1 unit, 1 lecture hour, 3 lab hours, (9 weeks), (Credit/No Credit), (Open Entry/Open Exit)
Prerequisite: None.
Learn the skills necessary to take classes online.

Change: subject, number, prerequisite, corequisite, repeatability   *effective Fall 2005*
237   Network+ Preparation, 1.5 units, 3 lecture hours, 1 lab hour, (9 weeks), (Repeats = 1), (Formerly Information Systems 231)
Prerequisite: Computer Information Technology 15. **Corequisite:** Computer Information Technology 45.
Networking communications as they relate to analyzing and evaluating accountability of new technology, network engineering and documentation, telephone systems and telecommunications, synchronous optical networks, training, ISDN lines, and satellite communications.

Change: subject, title, prerequisite, description   *effective Fall 2005*
238   A+ and Server+ Systems Fundamentals, 3 units, 3 lecture hours, 1 lab hour, (Formerly Information Systems 238)
Prerequisite: Computer Information Technology 15.
Skills for personal computer software and hardware support; server software and hardware support: installation, configuration, diagnosing and troubleshooting system software, basic networking, memory management, server principles and configuration and customer satisfaction.

Change: subject, prerequisite, repeatability *effective Fall 2005*
239   INET+ Preparation, 3 units, 3 lecture hours, 1 lab hour, (Repeats = 1), (Formerly Information Systems 239)
   Prerequisite: Computer Information Technology 15.
   Internet basics, Internet clients, Web development, networking, Internet security, and business concepts.

Change: subject, changed to open entry/open exit *effective Fall 2005*
260   Computer Skills Lab, 1 unit, 3 lab hours, (Repeats = 3), (Open Entry/Open Exit), (Formerly Computer Information Systems 60, Information Systems 60, and Information Systems 260)
   Prerequisite: None.
   Supervised use of microcomputers. Reinforcement of concepts from classroom studies and development of problem solving abilities on an independent basis. Grade based on hours worked in lab.

Change: subject, changed to open entry/open exit *effective Fall 2005*
261   Internet Skills Lab, 0.2-1 unit, 0.6-3 lab hours, (Credit/No Credit), (Repeats = 3), (Open Entry/Open Exit), (Formerly Information Systems 61 and Information Systems 261)
   Prerequisite: None.
   Supervised use of the Internet. Reinforcement of concepts from classroom studies and development of problem solving abilities on an independent basis. Grade based on hours worked in lab.
   (a) .2 units for minimum of 10 hours, maximum of 12 hours;
   (b) .4 units for minimum of 19 hours, maximum of 21 hours;
   (c) .6 units for minimum of 29 hours, maximum of 31 hours;
   (d) .8 units for minimum of 39 hours, maximum of 44 hours;
   (e) 1 unit for minimum of 48 hours.

Change: subject *effective Fall 2005*
277   Accelerated Excel, 1.5 units, 3 lecture hours, 2 lab hours, (9 weeks), (See also Business & Technology 277), (Formerly Information Systems 77 and Information Systems 277)
   Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
   Creating a spreadsheet, formatting the spreadsheet, using formulas and functions, and printing a spreadsheet.

Computer Science (CSCI)

Delete course *effective Fall 2005*
10   Programming in the Basic Language, 1 unit, 1 lecture hour, 3 lab hours, (Formerly Computer Science 14)

Change: correct CAN designation (add)
20   Programming in the FORTRAN Language, 3 units, 2 lecture hours, 2 lab hours
   (CAN CSCI 4)

Change: units, hours *effective Spring 2005*
26   Discrete Mathematics for Computer Science, 4 units, 3 lecture hours, 2 lab hours
   Prerequisite: Computer Science 40 or 40J, and Math 5A.
   Elements of discrete mathematics which have applications to computer science. Topics include sets, propositional and predicate logic, relations and functions, mathematical induction, graphs, and trees. (A, CSU-GE)

Change: description *effective Fall 2005*
30   Programming in the PASCAL Language, 3 units, 2 lecture hours, 2 lab hours
   Prerequisite: Math 103 or equivalent. **Corequisite:** Math 4A or equivalent. **Advisory:** Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
   Introduction to programming in PASCAL; syntax; control and data structures; design development, style, documentation, testing, and maintenance of software; arrays, functions, procedures, records, and files. Students who have limited programming experience are advised to take this course prior to Computer Science 40. (A, CSU)

Change: advisory, description *effective Fall 2005*
40   Programming Concepts and Methodology I, 4 units, 3 lecture hours, 2 lab hours, (Formerly Math 30A and Computer Science 30A)

    Prerequisite: Math 103 or equivalent. **Corequisite:** Math 4A or equivalent. **Advisory:** Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended; Computer Science 30 or equivalent recommended.
    Introduction to problem solving, algorithm development, procedural and data abstraction using the C++ language; program design, coding, debugging, testing, and documentation. (CAN CSCI 22) (A, CSU-GE, UC)

Change: advisory   *effective Fall 2005*
40J   Programming Concepts and Methodology in JAVA, 4 units, 3 lecture hours, 2 lab hours
    Prerequisite: Math 103 or equivalent. **Corequisite:** Math 4A or equivalent. **Advisory:** Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended; Computer Science 30 or equivalent recommended.
    Introduction to problem solving, algorithm development, procedural and data abstraction using the high level computer programming language JAVA; program design, coding, debugging, testing, and documentation. (A, CSU, UC)

Construction–Carpentry
Building Maintenance (BMCTC)

Delete course   *effective Fall 2005*
370   Building Maintenance, 0 units, 10 lecture hours, 20 lab hours, (20 weeks), (600 total hours), (Repeats = 3)

Criminology (CRIM)

Change: correct (delete corequisite)
13   The Constitution and Your Individual Rights, 3 units, 3 lecture hours, (Formerly Administration of Justice 13)
    Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
    Critical study, analysis and evaluation of landmark cases of the United States Supreme Court, and the logic and fallacies of the interpretive reasoning processes utilized by the justices in reaching their decisions. Emphasis on the protection of individual rights and privileges contained in the Bill of Rights, an understanding of the utility and value in all aspects of our lives of recognizing and using both formal and informal critical thinking processes. (A, CSU-GE, UC)

Dance (DANCE)

Change: transfer designation
23   Selected Topics in Dance Workshop, 2-4 units, 1 lecture hour, 3-9 lab hours, (Repeats = 3)
    (A, CSU, UC), (UC approved as variable topics; evaluation completed by individual campuses upon admission.)

Change: correct transfer designation
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 hours, 6 lab hours; 4 units, 1 lecture hour, 9 lab hours, (Repeats = 3)
    (A, CSU, UC), (UC approved as variable topics; evaluation completed by individual campuses upon admission.)

Change: prerequisite   *effective Fall 2004*
27   Advanced Mexican Folklorico Dance, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3), (See also Chicano-Latino Studies 27)
    Prerequisite: Chicano-Latino Studies/Dance 17, or demonstration of comparable skill level to be determined by testing at first class session. **Advisory:** Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
    History and origin of Mexican dance. Mexican songs and folktales, and how they are interpreted through Mexican dance. Dances practiced and performed at the advanced level. (A, CSU-GE, UC)

Decision Science (DS)

Change: correct CAN designation (add)
21   Finite Mathematics, 3 units, 3 lecture hours, (See also Math 21), (Formerly Decision Science 22)
(CAN MATH 12) (A, CSU-GE, UC, I)

Dental Hygiene (DH)

Change: description   *effective Fall 2005*
6B   Pharmacology, 3 units, 3 lecture hours, (Fall, second year)
Prerequisite: Dental Hygiene 6A with a grade of "C" or better. **Corequisite:** Dental Hygiene 1C, 3B, 5B, and 7A.
Sources, dosages, therapeutic action, and side effects of drugs used in dentistry; classification, administration, and effects of drugs; pharmacology, pharmacokinetics, and physiology of local anesthetic agents and nitrous oxide gas. Fulfills the computer literacy graduation requirement for Dental Hygiene majors only. (A, CSU)

Economics (ECON)

Change: correct transfer designation
1BH   Honors Introduction to Microeconomics, 3 units, 3 lecture hours
(A, CSU-GE, UC, I)

Electrical Systems Technology (EST)

Change: title, description, repeatability   *effective Fall 2005*
51   Direct Current Fundamentals of Electronics, 3 units, 3 lecture hours, 1 lab hour, (Repeats = 3), (Formerly Electronic Technology 51)
Prerequisite: None.
Fundamental principles and applications of direct current circuits. Emphasis on properties of conductors, insulators, and basic components and circuit theory. (A, CSU)

Delete course   *effective Fall 2005*
52   Circuit Analysis, 3 units, 3 lecture hours, (Repeats = 3)

New course   *effective Fall 2005*
52   Alternating Current Fundamentals, 3 units, 2.5 lecture hours, 1.5 lab hours, (Repeats = 3)
Prerequisite: None.
Alternating current fundamentals including applicable laws, principles and devices. Designed to meet the needs of industry and for more advanced electronic courses. (A, CSU)

Change: description, repeatability   *effective Fall 2005*
55A   Digital Concepts, 3 units, 3 lecture hours, 1 lab hour, (Repeats = 3), (Formerly Electronic Technology 53)
Prerequisite: None.
Introduction to digital systems and subcomponents. Introduction to analog vs. digital world, numbering systems, logic gates, digital transmission and communication, decoders, encoders, multiplexer and multiplexed transmission, registers and memory devices, as well as, digital circuit design on computers. (A, CSU)

Change: units, hours, description, repeatability   *effective Fall 2005*
55B   Digital Applications, 3 units, 3 lecture hours, 1 lab hour, (Repeats = 3)
Prerequisite: None.
Application of digital logic concepts and principles. Construction of digital circuits as they apply to real world systems (e.g. communication, binary addition, decoding, encoding, multiplexing, and interfacing to real world devices). Conceptual design of circuits on computer to application on trainers. (A, CSU)

New course *effective Fall 2005*
55C   SCADA Systems, 2 units, 2 lecture hours, 1 lab hour, (Repeats = 3)
          Prerequisite: None.
          Principles and application of SCADA. Aspects of the data acquisition system from specification and application.
Gives a solid understanding of interfacing a PC to real world measurement devices. (A, CSU)

Delete course *effective Fall 2005*
56   Industrial Electronics, 8 units, 5 lecture hours, 10 lab hours

New course *effective Fall 2005*
56A   Wiring Methods, 3 units, 2.5 lecture hours, 1.5 lab hours, (Repeats = 3)
          Prerequisite: None.
          Introduction and application of electrical wiring methods as recognized by the National Electrical Code. Includes
wiring methods and procedures for residential, commercial and industrial applications. Major emphasis will be placed
upon electrical safety as applied to electrical power systems. (A, CSU)

New course *effective Fall 2005*
56B   Motor Controls, 3 units, 2.5 lecture hours, 1.5 lab hours, (Repeats = 3)
          Prerequisite: None.
          Investigation and implementation of motor control. Emphasis on the fundamentals of motor operation, electrical
systems, controls as well as the National Electrical Code. (A, CSU)

New course *effective Fall 2005*
56C   Industrial Electronics, 3 units, 2.5 lecture hours, 1.5 lab hours, (Repeats = 3)
          Prerequisite: None.
          Application of electronic principles in the industrial environment. Emphasis on power circuits, control circuits and
electronic components. (A, CSU)

Delete course *effective Fall 2005*
57   Communication Fundamentals, 8 units, 5 lecture hours, 10 lab hours

New course *effective Fall 2005*
57A   Analog Communications, 3 units, 3 lecture hours, 1 lab hour, (Repeats = 3)
          Prerequisite: None.
          Analog modulation techniques and the frequency spectrum. (A, CSU)

New course *effective Fall 2005*
57B   Digital Communications, 3 units, 3 lecture hours, 1 lab hour, (Repeats = 3)
          Prerequisite: None.
          Digital multiplexing, modems and fiber optics. (A, CSU)

New course *effective Fall 2005*
57C   Voice and Data Cabling, 3 units, 2.5 lecture hours, 1.5 lab hours, (Repeats = 3)
          Prerequisite: None.
          The course focuses on cabling issues related to data and voice connections and provides an understanding of the
industry and its worldwide standards, types of media and cabling, physical and logical networks, as well as signal
transmission. (A, CSU)

Change: repeatability *effective Fall 2005*
**58   Programmable Logic Controllers, 3 units, 3 lecture hours, 1 lab hour, (Repeats = 3), (Formerly Electronic
          Technology 58)**
          Prerequisite: None.
          Programmable controllers, basic programming of programmable logic controllers, and input/output device
interfacing. (A, CSU)

Change: repeatability *effective Fall 2005*
**59   Instrumentation Systems, 3 units, 3 lecture hours, 1 lab hour, (Repeats = 3), (Formerly Electronic Technology
          60)**
          Prerequisite: None.

Basic instrumentation and control concepts with application in process control systems. Calibrating, terminology, and Piping and Instrument Diagram (P&ID) symbols as established by the Instrumentation, Systems, and Automation Society. (A, CSU)

Change: title, description, repeatability   *effective Fall 2005*
60   A+PC Maintenance, 3 units, 3 lecture hours, 1 lab hour, (Repeats = 3), (Formerly Electronic Technology 61)
        Prerequisite: None.
        Skills for computer hardware support; installation, configuration, diagnosing and troubleshooting computer hardware. (A, CSU)

Change: repeatability   *effective Fall 2005*
61   Networking Essentials, 3 units, 3 lecture hours, 1 lab hour, (Repeats = 3), (Formerly Electronic Technology 59)
        Advisory: Electrical Systems Technology 55A, Electrical Systems Technology 60 and Applied Technology 10 strongly recommended.
        Local Area Networks fundamentals. First class for the CISCO CCNA Certification. (A, CSU)

Change: repeatability   *effective Fall 2005*
62   Router Theory and Technology, 3 units, 3 lecture hours, 1 lab hour, (Repeats = 3)
        Prerequisite: Electrical Systems Technology 61.
        Local Area Network routers and switches including basic configuration and protocols. Second class for the CISCO CCNA Certification. (A, CSU)

Change: repeatability   *effective Fall 2005*
63   Advanced Routing and Switching, 3 units, 3 lecture hours, 1 lab hour, (Repeats = 3)
        Prerequisite: Electrical Systems Technology 62.
        Local Area Network routers and switches including advanced configuration, design and protocols. Third class for the CISCO CCNA Certification. (A, CSU)

Change: repeatability   *effective Fall 2005*
64   Advanced Networking and Management, 3 units, 3 lecture hours, 1 lab hour, (Repeats = 3)
        Prerequisite: Electrical Systems Technology 63.
        Local Area Network routers and switches including advanced network designs and management. Fourth class for the CISCO CCNA Certification. (A, CSU)

Change: prerequisite, repeatability   *effective Fall 2005*
65   Advanced Routing Protocols, 3 units, 3 lecture hours, 1 lab hour, (Repeats = 3)
        Prerequisite: Electrical Systems Technology 64 or CCNA Certification.
        Routing protocols for interior and exterior networks. First class for the CISCO CCNP Certification. (A, CSU)

Change: repeatability   *effective Fall 2005*
66   Remote-Access Networks, 3 units, 3 lecture hours, 1 lab hour, (Repeats = 3)
        Prerequisite: Electrical Systems Technology 65.
        Designing and configuring routers for remote access. Second class for the CISCO CCNP Certification. (A, CSU)

Change: prerequisite, repeatability   *effective Fall 2005*
67   Multi-Layer Switching, 3 units, 3 lecture hours, 1 lab hour, (Repeats = 3)
        Prerequisite: Electrical Systems Technology 65.
        Implementing Switches and VLANs into a network. Third class for the CISCO CCNP Certification. (A, CSU)

Change: prerequisite, repeatability   *effective Fall 2005*
68   Network Troubleshooting, 3 units, 3 lecture hours, 1 lab hour, (Repeats = 3)
        Prerequisite: Electrical Systems Technology 66 and 67.
        Diagnosing and correcting problems on VLANs and WAN networks. Fourth class for the CISCO CCNP Certification. (C, CSU)

Delete course   *effective Fall 2005*
96   National Electrical Code, 3 units, 3 lecture hours, (Repeats = 3)

New course *effective Fall 2005*
96A   National Electrical Code Part 1, 3 units, 3 lecture hours, (Repeats = 3), (See also Building Safety and Code Administration 17)
    Prerequisite: None.
    Application of the rules for engineering, designing, installing, maintaining, and inspecting electrical systems. Designed for newcomers and professionals seeking preparation for obtaining additional certifications or further knowledge. Branch circuits, electrical services, overcurrent protection, and grounding part 1. (A, CSU)

New course *effective Fall 2005*
96B   National Electrical Code Part 2, 3 units, 3 lecture hours, (Repeats = 3), (See also Building Safety and Code Administration 27)
    Prerequisite: None.
    Application of the rules for engineering, designing, installing, maintaining, and inspecting installations. Designed for newcomers to the electrical industry and professionals seeking preparation for obtaining additional certifications or further knowledge. General wiring, motors, controls, transformers, other equipment and grounding. (A, CSU)

New course *effective Fall 2005*
96C   National Electrical Code Part 3, 3 units, 3 lecture hours, (Repeats = 3), (See also Building Safety and Code Administration 37)
    Prerequisite: None.
    Application of the rules for engineering, designing, installing, maintaining, and inspecting installations. Designed for newcomers to the electrical industry and professionals seeking preparation for obtaining additional certifications or further knowledge. General wiring, motors, controls, transformers, other equipment and grounding. (A, CSU)

New course *effective Fall 2005*
96D   National Electrical Code–Electrical Safety, 3 units, 3 lecture hours, (Repeats = 3), (See also Building Safety and Code Administration 47)
    Prerequisite: None.
    Fundamentals of electrical safety as required by NFPA Document 70E. (A, CSU)

New course *effective Fall 2005*
240   Building Automation, 2 units, 2 lecture hours, (Repeats = 3)
    Prerequisite: None.
    Building automation fundamentals identifying various aspects of the control systems within a commercial building envelope.

Change: prerequisite, repeatability *effective Fall 2005*
269B Fundamentals of Wireless LANs, 3 units, 3 lecture hours, 1 lab hour, (Repeats = 3)
    Prerequisite: Electrical Systems Technology 61 or Computer Information Technology 45 or equivalent.
    The design, planning, implementation, operation, and troubleshooting of Wireless LANs.

Electronic Technology (ETCTC)

Delete course *effective Fall 2005*
370   Computer Technician, 0 units, 6.65 lecture hours, 13.35 lab hours, (Repeats = 3)

English (ENGL)

Change: prerequisite *effective Fall 2006*
1AH Honors Reading and Composition, 4 units, 4 lecture hours, (Formerly Honors 1E)
    Prerequisite: A "credit" grade in English 125 or ESL 67, and English 126 or ESL 68 or appropriate score on the reading and writing sections of the placement test. **Advisory:** Meet the qualifications for consideration for acceptance into the Honors Program recommended. See Honors Program listing in the college catalog.
    Reading, analyzing, and writing college-level prose, with emphasis on the expository; studying writing as a process; exploring different writing strategies; summarizing, editing, and critiquing; conducting research (gathering, organizing, evaluating, integrating, and documenting information). Honors sections may cover additional subject matter such as

creative writing, peer response, the study of oral narrative and its relationship to writing, and composing on the computer. (CAN ENGL 2) (A, CSU-GE, UC, I)

Change: correct CAN designation (add)
15A   **Creative Writing: Poetry, 3 units, 3 lecture hours, (Repeats = 1), (Formerly English 15)**
       (CAN ENGL 6) (A, CSU, UC)

English as a Second Language (ESL)

New course   *effective Spring 2006*
273   **English Essentials for Health Professionals, 2 units, 2 lecture hours, (Credit/No Credit)**
       Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
       The development of reading, critical thinking, and study strategies to successfully manage assignments in Allied Health classes. Emphasis will be on the acquisition, pronunciation, and effective use of language as it applies to the health professions. The class will include the examination of underlying language structures and the medical vocabulary needed to support reading comprehension and analysis of texts and professional journals related to health issues and health delivery systems.

Film (FILM)

Change: title, description   *effective Spring 2006*
1   **Introduction to Film Studies, 3 units, 3 lecture hours**
       Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
       Introduction to the study of film with emphasis on aesthetics, theory, and methods of critical analysis. Lectures, discussions, and readings are supplemented by screenings of representative films. (A, CSU-GE, UC, I)

Change: title, description   *effective Spring 2006*
2A   **History of Cinema 1895-1960, 3 units, 3 lecture hours, (Formerly Film 1A)**
       Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
       A survey of international film history from the invention of cinema in the 1890s to 1960, including the development of narrative, documentary, and avant-garde film of the period; the aesthetic, technological, economic, and social factors that shaped this medium; and its impact on diverse societies and cultural values. (A, CSU-GE, UC, I)

Change: title, description   *effective Spring 2006*
2B   **History of Cinema 1960-Present, 3 units, 3 lecture hours, (Formerly Film 1B)**
       Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
       A survey of international film history from 1960 to the present; the aesthetic, technological, economic, and social factors that shape this medium; and its impact on diverse societies and cultural values. (A, CSU-GE, UC, I)

New course   *effective Spring 2006*
3   **Film and Culture, 3 units, 3 lecture hours**
       Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
       The relationship between film and culture, including the images of race, ethnicity, class, and gender in film; the ways in which ideologies are conveyed through popular film; and the technological, industrial, and aesthetic factors affecting screen content. Lectures, discussions, and readings are supplemented by screenings of representative films. (A, CSU)

Delete course   *effective Spring 2006*
4   **Exploring Film, 3 units, 3 lecture hours, (Repeats = 3)**

New course   *effective Spring 2006*
5   **Digital Filmmaking, 3 units, 3 lecture hours, (Repeats = 3)**
       Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
       Introduction to video filmmaking, including scripting, shooting, and editing short digital films. Emphasis on personal and creative expression. (A, CSU)

New course *effective Spring 2006*
6   Film Genres, 3 units, 3 lecture hours
      Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
      Genre study to provide a clear context for appreciating the fundamental components of film as art and as social expression. Investigates the origins, evolution and transformations of various film genres, including film noir, the Western, science-fiction, the musical, horror, war, or the crime film. Covers the formal and thematic conventions of each genre and the genre as a reflection of the social environments that produced them. (A, CSU)

Fire Technology (FIRET)

Change: changed to open entry/open exit *effective Fall 2004*
261   Emergency Medical Technician 1 Refresher, 1 unit, 1.33 lecture hours, (Repeats = 3), (Open Entry/Open Exit)

Foreign Languages
American Sign Language (ASL)

New course *effective Spring 2006*
5   Deaf Culture, 3 units, 3 lecture hours
      Prerequisite: American Sign Language 4 or equivalent. **Advisory:** Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
      An in-depth study of Deaf culture and the Deaf community which will help students understand Deaf culture, values, language, identity, rules of interaction, and traditions. Students will learn about the deep-rooted ties that Deaf have with residential schools; Gallaudet University; and national, state, and local organizations. (A, CSU)

Armenian (ARMEN)

Change: correct transfer designation
3   Intermediate Armenian, 4 units, 3 lecture hours, 2 lab hours
      (A, CSU-GE, UC, I)

Spanish (SPAN)

Change: prerequisite *effective Spring 2006*
3NS   Spanish for Spanish Speakers, 4 units, 4 lecture hours, 1 lab hour, (Formerly Spanish 21)
      Prerequisite: A basic speaking knowledge of Spanish. **Advisory:** Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
      Designed for the student with a basic life experience using the Spanish language. Development of correct grammar, correction of speech habits, and improving vocabulary and skills in reading and writing. Hispanic literature and culture. Conducted in Spanish. Not open to students with credit in Spanish 3. (A, CSU-GE, UC, I)

Change: prerequisite *effective Spring 2006*
4NS   Spanish for Spanish Speakers, 4 units, 4 lecture hours, 1 lab hour, (Formerly Spanish 22)
      Prerequisite: Spanish 3NS or a basic speaking knowledge of Spanish. **Advisory:** Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
      Continuation of Spanish 3NS. Designed for the student with a basic life experience using the Spanish language. Development of correct grammar, correction of speech habits, and improving vocabulary and skills in reading and writing. Hispanic literature and culture. Conducted in Spanish. Not open to students with credit in Spanish 4. (A, CSU-GE, UC, I)

Change: correct transfer designation
7   Advanced Spanish: Composition and Grammar, 3 units, 3 lecture hours, 1 lab hour
      (A, CSU-GE, UC, I)

Change: correct description
11   Costa Rica: A Cultural Overview, 1 unit, 1 lecture hour
      Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
      Culture of modern Costa Rica and its roots in pre-Columbian civilization. Designed for students enrolled in the Summer in Costa Rica Program. (A, CSU)

Geology (GEOL)

Change: correct CAN designation
2   Historical Geology, 3 units, 3 lecture hours, (Spring)
      (CAN GEOL 8) (A, CSU-GE, UC, I)

Change: description   *effective Fall 2005 (Note: new course Spring 2005)*
9   Introduction to Earth Science, 3 units, 2 lecture hours, 2 lab hours
      Prerequisite: Natural Science 1A. **Corequisite:** Biology 9. **Advisory:** Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
      An introduction to the earth sciences with an emphasis on basic topics and principles in geology, oceanography, meteorology, and astronomy. Field trips required. Required concurrent enrollment in Biology 9 will facilitate the study of interrelationships between biological and earth processes. For transfer Liberal Studies Blended Major students. (A, CSU, UC)

Graphic Communications (GRC)

Change: correct advisory
5   Introduction to Macintosh Computer Use, 1 unit, 2 lecture hours, (9 weeks), (Repeats = 3)
      Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.

Change: correct advisory
10   Introduction to Graphic Communications, 2 units, 2 lecture hours, (Repeats = 3)
      Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 and Math 101 recommended.

Change: correct advisory
12   Pagemaker/Introduction to Graphic Layout, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)
      Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 and Math 101 recommended.

Change: correct advisory
13   Image Capture/Scanning, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)
      Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 and Math 101 recommended.

Change: correct advisory
14   Adobe Acrobat, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)
      Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 and Math 101 recommended.

Change: correct advisory
15   Web Page Construction 1, 4 units, 3 lecture hours, 3 lab hours, (Repeats = 3)
      Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 and Math 101 recommended.

Change: correct advisory
17   Adobe Illustrator/Illustration Software, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)
      Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 and Math 101 recommended.

Change: correct advisory
20   Desktop Publishing, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)
      Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 and Math 101 recommended.

Change: correct advisory
22   Multimedia 1, 4 units, 3 lecture hours, 3 lab hours, (Repeats = 3)
    Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 and Math 101 and GRC 5 recommended.

Change: correct advisory
41   Visual Communications, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)
    Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.

Change: correct advisory
54   Math for Graphic Communications, 3 units, 3 lecture hours
    Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.

Change: correct advisory
59   Technical Commercial Art, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)
    Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 and Math 101 recommended.

Change: correct advisory
62   Printing Management, 3 units, 3 lecture hours
    Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 and Math 101 recommended.

Guidance Studies (GS)

New course   *effective Fall 2005*
+167   Financial Aid Money Management, 1 unit, 1 lecture hour
    Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68, and Math 101 recommended.
    Recommended for financial aid eligible college students. Designed to help develop a basic awareness of financial aid money management skills including personal student budgeting, and the nature and purpose of financial aid assistance. (A)
+ Pending State Chancellor's Office approval.

Health Information Technology (HIT)

Change: correct (add prerequisite)
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 153 or ESL 67 and 68 recommended.
    Basic hospital and health statistics including the sources, definitions, and calculation of common rates and percentages. Computerized and manual methods for collection, computation and presentation. Review of regulatory, accreditation, and vital statistics reporting. (A, CSU)

History (HIST)

Change: title, units, hours, description   *effective Spring 2005*
3   History of Ancient Rome, 3 units, 3 lecture hours
    Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
    The history, politics, social life, literature, art, architecture, religion and archaeology of Rome from the foundation of the city to the early Byzantine period. (A, CSU, UC)

Change: title, description   *effective Fall 2005*
11   History of the United States to 1877, 3 units, 3 lecture hours
    Advisory: Eligibility for English 1A recommended.
    Political, social, and economic development from the colonial period through the Reconstruction Era. (CAN HIST 8) (A, CSU, UC, I)

New course *effective Spring 2006*
22   History of American Women, 3 units, 3 lecture hours
   Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
   Women in American history: social, political, and economic actions and reactions of American women; racial, ethnic, religious, geographic, and class differences. (A, CSU)

Change: correct transfer designation
29   History of Mexico, Colonial to Contemporary Period, 3 units, 3 lecture hours, (See also Chicano-Latino Studies 29)
   (A, CSU-GE, UC, I)

Home Economics (HEC)

New course *effective Spring 2005*
30   Ethnic Dress, 3 units, 3 lecture hours, (Repeats = 2)
   Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
   The national costume in various cultures as reflected by apparel, accessories, and textiles, examines geographic, sociological, psychological, economic, political, and technological factors affecting the development of cloth and clothing. Influences of various cultural customs and costumes on contemporary western fashion. (A, CSU)

Change: correction (delete course)
163   Effective Parenting (Emphasis: CalWORKS Students), 1 unit, 1 lecture hour

Honors (HONORS)

Change: correct CAN designation (add)
ART 5H, Honors Art History 1, 3 units, 3 lecture hours, (Formerly Honors 5A)
   (CAN ART 2) (A, CSU-GE, UC, I)

Change: correct CAN designation (add)
ART 6H, Honors Art History 2, 3 units, 3 lecture hours, (Formerly Honors 6A)
   (CAN ART 4) (A, CSU-GE, UC, I)

Change: correct transfer designation
BUSINESS ADMINISTRATION 10H, Honors Introduction to Business, 3 units, 3 lecture hours, (See also Management 10H)
   (A, CSU, UC)

Change: correct transfer designation
ECONOMICS 1AH, Honors Introduction to Macroeconomics, 3 units, 3 lecture hours
   (A, CSU-GE, UC, I)

Change: correct transfer designation
ECONOMICS 1BH, Honors Introduction to Microeconomics, 3 units, 3 lecture hours
   (A, CSU-GE, UC, I)

Change: prerequisite *effective Fall 2006*
ENGLISH 1AH, Honors Reading and Composition, 4 units, 4 lecture hours, (Formerly Honors 1E)
   Prerequisite: A "credit" grade in English 125 or ESL 67, and English 126 or ESL 68 or appropriate score on the reading and writing sections of the placement test. **Advisory:** Meet the qualifications for consideration for acceptance into the Honors Program recommended. See Honors Program listing in the college catalog.
   Reading, analyzing, and writing college-level prose, with emphasis on the expository; studying writing as a process; exploring different writing strategies; summarizing, editing, and critiquing; conducting research (gathering, organizing, evaluating, integrating, and documenting information). Honors sections may cover additional subject matter such as creative writing, peer response, the study of oral narrative and its relationship to writing, and composing on the computer. (CAN ENGL 2) (A, CSU-GE, UC, I)

Change: correct transfer designation
ENGLISH 3H, Honors Critical Reading & Writing, 3 units, 3 lecture hours
    (A, CSU-GE, UC, I)

Change: corequisite, advisory   *effective Fall 2004*
HONORS 1A, Honors Science Colloquium: Biological Science Through Scholarly Research, 1 unit, 1 lecture hour
    Corequisite: Meet the qualifications for acceptance into the Honors Program. Biology 1H or English 1AH. See Honors Program listing in college catalog. **Advisory:** None.
    Interdisciplinary approach to biological research integrating scientific writing and scholarly presentation methods. Critical topics and concepts beyond content offered in Biology 1 Honors. (A, CSU, UC), (UC approved as variable topics; evaluation completed by individual campuses upon admission.)

Change: corequisite, advisory   *effective Fall 2004*
HONORS 1B, Honors Humanities Colloquium: The Ancient World to the Renaissance, 1 unit, 1 lecture hour
    Corequisite: Meet the qualifications for acceptance into the Honors Program. Philosophy 1AH, History 1H or 2H, Art 5H or 6H, or English 1BH or 3H. See Honors Program listing in college catalog. **Advisory:** None.
    Interdisciplinary investigation of aspects of perceived reality by individuals during historical eras from Prehistoric Age to the Renaissance. Examination of various concepts of reality as manifested in literature, critical thought, philosophy, religion, ideology, arts, politics, and socioeconomic systems. (A, CSU, UC), (UC approved as variable topics; evaluation completed by individual campuses upon admission.)

Change: corequisite, advisory   *effective Fall 2004*
HONORS 1C, Honors Humanities Colloquium: The Renaissance to Postmodernism, 1 unit, 1 lecture hour
    Corequisite: Meet the qualifications for acceptance into the Honors Program. Philosophy 1AH, History 1H or 2H, Art 5H or 6H, or English 1BH or 3H. See Honors Program listing in college catalog. **Advisory:** None.
    Interdisciplinary investigation of aspects of perceived reality by individuals during historical eras from Renaissance to Postmodern. Examination of various concepts of reality as manifested in literature, critical thought, philosophy, religion, ideology, arts, politics, and socioeconomic systems. (A, CSU, UC), (UC approved as variable topics; evaluation completed by individual campuses upon admission.)

Change: corequisite, advisory   *effective Fall 2004*
HONORS 1D, Honors Business and Economics Colloquium: The Local Economy and Agribusiness, 1 unit, 1 lecture hour
    Corequisite: Meet the qualifications for acceptance into the Honors Program. Economics 1AH or 1BH, Business Administration 10H or Management 10H. See Honors Program listing in college catalog. **Advisory:** None.
    Interdisciplinary investigation of aspects of economic theory and business systems and their relationship to economic cycles and business practices. Global and national economic and business theories applied to the economic cycles and business conditions of agribusiness of the San Joaquin Valley. (A, CSU)

Change: corequisite, advisory   *effective Fall 2004*
HONORS 1E, Honors Social Science Colloquium: Contemporary Issues in Social Science, 1 unit, 1 lecture hour
    Corequisite: Meet the qualifications for acceptance into the Honors Program. Anthropology 2H or Psychology 2H. See Honors Program listing in college catalog. **Advisory:** None.
    Interdisciplinary investigation of a contemporary issue in society, culture, and human behavior. Topics studied and researched in relationship to anthropological and psychological theories. (A, CSU)

Change: corequisite, advisory   *effective Fall 2004*
HONORS 1F, Honors Phi Theta Kappa Colloquium: Phi Theta Kappa Study Topics, 1 unit, 1 lecture hour
    Corequisite: Meet the qualifications for acceptance into the Honors Program and enrollment in the Honors Program. See Honors Program listing in college catalog. **Advisory:** None.
    Interdisciplinary investigation of the annual study topic of Phi Theta Kappa International Honor Society. Topic determined by the Honors Study Topic Guide and drawn from the humanities, natural sciences and social sciences. (A, CSU)

Change: corequisite, advisory *effective Fall 2004*
HONORS 1G, Honors Leadership Colloquium: Phi Theta Kappa Leadership Training Institute, 1 unit, 1 lecture hour
    Corequisite: Meet the qualifications for acceptance into the Honors Program and enrollment in the Honors Program. See Honors Program listing in college catalog. **Advisory:** None.
    Interdisciplinary study of integrating concepts and materials requiring analysis of leadership styles and contexts from the Honors core courses in humanities, social sciences, and business. Development of student's college and life-long leadership skills. (A, CSU)

Change: correct transfer designation
MANAGEMENT 10H, Honors Introduction to Business, 3 units, 3 lecture hours, (See also Business Administration 10H)
    (A, CSU, UC)

Change: correct CAN designation (add)
PSYCHOLOGY 2H, Honors General Psychology, 3 units, 3 lecture hours, (Formerly Honors 7P and Psychology 7H)
    (CAN PSY 2) (A, CSU-GE, UC, I)

Human Services (HS)

Change: correct transfer designation
2   American Minority Groups, 3 units, 3 lecture hours, (See also Sociology 2)
    (A, CSU-GE, UC, I)

Change: correct transfer designation
10   Introduction to Aging Studies, 3 units, 3 lecture hours, (See also Sociology 10)
    (A, CSU-GE, UC, I)

Change: subject *effective Fall 2005*
Information Systems (IS)
See *Computer Information Technology (CIT)*

Delete course *effective Fall 2005*
272   Introduction to Computers, 1 unit, 1 lecture hour

Delete course *effective Fall 2005*
275   Accelerated Lotus, 1 unit, 1 lecture hour, 1 lab hour

Delete course *effective Fall 2005*
276   Accelerated dBase, 1 unit, 1 lecture hour, 1 lab hour

Delete course *effective Fall 2005*
278   Accelerated Access, 1 unit, 1 lecture hour, 1 lab hour

Journalism (JOURN)

Change: description *effective Fall 2005*
1   Introduction to Mass Communication, 3 units, 3 lecture hours
    Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
    A critical study of American mass media and a comparison with other mass communication systems throughout the world. Course surveys books, newspapers, magazines, television, radio, film, press services, and the support systems of advertising and public relations after reviewing freedom of the press and communication theory. (CAN JOUR 4) (A, CSU, UC)

Change: description   *effective Fall 2005*
2   Interpreting Current Events, 3 units, 3 lecture hours
   Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.
   Discussion and analysis of important national and international events. Readings from newspapers, magazines and on-line news sources on interpreting and evaluating information in light of journalistic objectivity, propaganda, government censorship and the influence of various groups on news gathering. (A, CSU)

Change: advisory, description   *effective Fall 2005*
5   Newspaper Production, 3 units, 2 lecture hours, 4 lab hours, (Repeats = 3)
   Advisory: Eligibility for English 125 or ESL 67 recommended. For reporters and editors, Journalism 3 (can be concurrent) or equivalent. For photographers, demonstrated ability to use a camera. For artists and designers, demonstrated ability in the field of art or graphics.
   Class members organize and publish a student newspaper on a regular schedule through the semester. The newspaper is led by appointed student editors and advised by the instructor. Includes evaluating writing, editing, photography, graphics and layout assignments. (A, CSU)

Delete course   *effective Fall 2005*
6   Magazine Staff, 3 units, 1 lecture hour, 6 lab hours, (Repeats = 3)

Delete course   *effective Fall 2005*
10   Introduction to Broadcast Journalism, 3 units, 3 lecture hours

Delete course   *effective Fall 2005*
19   Work Experience (Cooperative), Occupational, 1-4 units, 1 lecture hour, (Repeats= 3)

Library Skills (LIBSKL)

New course   *effective Spring 2005*
2   Information and Computer Literacy , 3 units, 3 lecture hours, (Repeats = 1)
   Advisory: Eligibility for English 125 and 126 or English 153 or ESL 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, word processing, email, spreadsheets, and navigating the World Wide Web. Fulfills the computer literacy graduation requirement. (A, CSU)

New course   *effective Spring 2006*
19   Work Experience (Cooperative), Occupational, 1-4 units, 1 lecture hour, (Repeats = 3)
   Corequisite: Fall and Spring Semesters: Must be enrolled in a minimum of 7 units including work experience. Summer Session: Must be enrolled in at least one other course. Supervised employment directly related to the student's major. Offered under specific majors.
   Success on the job, including interpersonal, problem solving, and communication skills; office dynamics and adapting to change. Group interaction. Collaborative learning activities specific to the occupational field. Learning objectives established specific to the particular occupational field. Seventy-five hours of paid employment or 60 hours of volunteer employment per unit per semester. Maximum of 4 units per semester, 16 units total. May be repeated up to three times for not more than 16 units total. (A, CSU)

Mathematics (MATH)

Change: correct transfer designation
4A   Trigonometry, 4 units, 4 lecture hours
   (A, CSU-GE)

Change: correct CAN designation (add)
10A   Structure and Concepts in Mathematics, 3 units, 3 lecture hours
   (CAN MATH 4) (A, CSU-GE, UC, I)

Change: correct CAN designation (add)
26   Elementary Linear Algebra, 3 units, 3 lecture hours
(CAN MATH 26) (A, CSU-GE, UC, I)

Change: correct CAN designation (add)
42   Statistics for the Behavioral Sciences, 4 units, 4 lecture hours, (See also Psychology 42)
(CAN PSY 6) (A, CSU-GE, UC, I)

Change: units, hours, prerequisite, description;   *effective Spring 2005*
removed repeatability and credit/no credit grading status
255   Pre-Algebra, 3 units, 5 lecture hours, (Formerly Math 55)
Prerequisite: Math 260D or a test score that would qualify the student to place out of or above Math 260D.
Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.

Designed to increase student success in Math 101 (Introductory Algebra); is ideal for students who have math anxiety or who do not feel ready for the fast pace of Math 101. Students will be introduced to selected topics that are often difficult for Math 101 students (e.g., signed numbers, simplification, equations, word problems, factoring, and graphing).

Military Science (MILSC)

Change: description   *effective Fall 2005*
11   General Leadership Skills, 2 units, 2 lecture hours
Prerequisite: None.

Institutional knowledge of the Army profession and introduction to a wide range of technical and tactical skills. Emphasizes the officer's role in the Army and offers tools for professional success. (A, CSU, UC)

Change: description   *effective Fall 2005*
12   Basic Leadership and Management, 2 units, 2 lecture hours
Prerequisite: None.

Principles of leadership and resource management; mission planning and presentation of goals to groups. Emphasizes U.S. Army posture versus current threats faced. (A, CSU, UC)

New course   *effective Spring 2005*
20   ROTC Leadership Training Course (LTC), 3 units, 4.5 lecture hours, 27 lab hours, (4 weeks), (Credit/No Credit), (Open Entry/Open Exit)
Prerequisite: Eligibility criteria as set forth in US Army Regulation 145-1.

Summer training program at an active army military installation. This is a "no obligation" look at the U.S. Army's basic leadership skills and training overview. Provides credit for the Senior ROTC Basic Course (freshman/sophomore). (A, CSU)

New course   *effective Spring 2005*
21   ROTC Leadership Development/Assessment Course (LDAC), 3 units, 3 lecture hours, 18 lab hours, (6 weeks), (Credit/No Credit), (Open Entry/Open Exit)
Prerequisite: Military Science 31 and Military Science 32.

Summer training course familiarizing students with Army weapons systems, military skills, confidence training, light infantry tactics, and leadership and management techniques. (A, CSU)

New course   *effective Spring 2005*
31   Advanced Leadership and Management, 3 units, 3 lecture hours
Prerequisite: Military Science 20 or prior military service.

Personnel management problems and techniques of motivation as applied to a military environment; techniques and methods of instruction; application of basic military skills; military law. (A, CSU)

New course   *effective Spring 2005*
32   Small Unit Leadership, 3 units, 3 lecture hours
Prerequisite: Military Science 31.

Principles of tactics and operations; organization of small units and their employment; field orders and instructions; small unit leadership techniques. (A, CSU)

New course *effective Spring 2005*
41   Ethics and Military Professionalism, 3 units, 3 lecture hours
      Prerequisite: Military Science 32 and Military Science 51B.
      Military professional ethics, military justice, command and staff functions, mission and organization of the U.S. Army and military correspondence. (A, CSU)

New course *effective Spring 2005*
42   Advanced Leadership Training, 3 units, 3 lecture hours
      Prerequisite: Military Science 41 and Military Science 52A.
      Focus on transitioning cadets to lieutenants. Topics include responsibility of army officers, army leadership doctrine, and the army promotion system. (A, CSU)

Change: description, removed repeatability *effective Fall 2005*
50A   Leadership Lab I, 1 unit, 3 lab hours
      Practical work to augment classroom instruction by teaching leadership, tactics, and soldier skills, Weekly laboratories plus one field trip each semester. (A, CSU, UC)

Change: description, removed repeatability *effective Fall 2005*
50B   Leadership Lab II, 1 unit, 3 lab hours
      Practical work to augment classroom instruction by teaching intermediate leadership, tactics, and soldier skills. Weekly laboratories plus one field trip each semester. (A, CSU, UC)

New course *effective Spring 2005*
51A   ROTC Junior Leadership Lab I, 1 unit, 3 lab hours
      Prerequisite: Military Science 20 or prior military service.
      Practical work to augment classroom instruction by teaching leadership, tactics, and soldier skills. Weekly laboratories plus one field trip each semester. (A, CSU)

New course *effective Spring 2005*
51B   ROTC Junior Leadership Lab II, 1 unit, 3 lab hours
      Prerequisite: Military Science 31 and Military Science 51A.
      Practical work to augment classroom instruction by teaching intermediate leadership, tactics, and soldier skills. Weekly laboratories plus one field trip each semester. (A, CSU)

New course *effective Spring 2005*
52A   ROTC Senior Leadership Lab I, 1 unit, 3 lab hours
      Prerequisite: Military Science 32 and Military Science 51B.
      Practical work to augment classroom instruction by teaching leadership, tactics, and soldier skills. Weekly laboratories plus one field trip each semester. (A, CSU)

New course *effective Spring 2005*
52B   ROTC Senior Leadership Lab II, 1 unit, 3 lab hours
      Prerequisite: Military Science 41 and Military Science 52A.
      Practical work to augment classroom instruction by teaching leadership, tactics, and soldier skills. Weekly laboratories plus one field trip each semester. (A, CSU)

Music (MUS)

Change: remove "See also" course, correct transfer designation
32   Musical Theatre Performance, 3 units, 2 lecture hours, 4 lab hours, (Repeats = 3), (Formerly Music 24)
      (A, CSU-GE, UC)

Natural Science (NATSCI)

New course   *effective Fall 2004*
1A   Integrated Science: Physics and Chemistry, 4 units, 3 lecture hours, 3 lab hours
      Advisory: Eligibility for English 125 and 126 or English 153 or ESL 67 and 68, and Math 101 recommended.
      Basic concepts of chemistry and physics and their relation to the everyday environment. Includes laboratory and demonstrations with special application to K-6 teachers. Specifically designed to satisfy the requirements of students who intend on transferring to the CSU Liberal Studies Major. (A, CSU)

Nursing
Registered Nursing (RN)

Change: description   *effective Fall 2005*
3   Intermediate Medical-Surgical Nursing, 2.5 units, 5 lecture hours, (9 weeks)
      Prerequisite: Registered Nursing 1 and 2 with a grade of "C" or better. **Corequisite:** Registered Nursing 4.
      Medical-Surgical, and gynecological nursing concepts, basic pathology, and related nursing management for adults and geriatric patients. (A, CSU)

Change: description   *effective Fall 2005*
4   Intermediate Medical-Surgical Nursing Clinical, 2.5 units, 15 lab hours, (9 weeks)
      Prerequisite: Registered Nursing 1 and 2 with a grade of "C" or better. **Corequisite:** Registered Nursing 3.
      Medical-Surgical, and gynecological nursing of adult patients, including geriatrics; clinical experiences in hospitals and community agencies. (A, CSU)

Change: title   *effective Fall 2005*
5   Perinatal Nursing, 2.5 units, 5 lecture hours, (9 weeks)
      Prerequisite: Registered Nursing 1 and 2 with a grade of "C" or better. **Corequisite:** Registered Nursing 6.
      Family centered approach to birth, the childbearing cycle and the neonate; physiology of pregnancy and labor, mother-infant bonding. (A, CSU)

Change: description   *effective Fall 2005*
7   Advanced Medical-Surgical Nursing (A), 2.5 units, 5 lecture hours, (9 weeks)
      Prerequisite: Registered Nursing 3 and 4 with a grade of "C" or better. **Corequisite:** Registered Nursing 8.
      Advanced medical-surgical theoretical concepts and principles in managing adults with problems related to cardiovascular, hematological, vascular, respiratory, renal and male reproductive systems. (A, CSU)

Change: description   *effective Fall 2005*
8   Advanced Medical-Surgical Nursing Adult (A) Clinical, 2.5 units, 15 lab hours, (9 weeks)
      Prerequisite: Registered Nursing 3 and 4 with a grade of "C" or better. **Corequisite:** Registered Nursing 7.
      Advanced principles and practices in the clinical setting of medical- surgical nursing of adults with problems related to the cardiovascular, hematological, vascular, respiratory, renal and male reproductive system. (A, CSU)

Change: description   *effective Fall 2005*
15   Nursing Leadership, 1 unit, 2 lecture hours, (9 weeks)
      Prerequisite: Registered Nursing 1 and 2 with a grade of "C" or better.
      Managerial issues, responsibilities and techniques for the new registered nurse graduate, including professional perspectives, legal and ethical issues, and organizational communication. Fulfills the computer literacy graduation requirement for Registered Nursing majors only. (A, CSU)

New course   *effective Spring 2005*
151   Perioperative Nursing Clinical, 1 unit, 4 lab hours, (14 weeks), (Credit/No credit), (Repeats = 2)
      Prerequisite: Registered Nurse, or Registered Nursing 3 and Registered Nursing 4. **Corequisite:** Registered Nursing 50.
      Clinical experience in perioperative registered nursing. Application of concepts of perioperative nursing using the nursing process. Participation in all aspects of delivering perioperative nursing care in a variety of clinical settings. (A)

Pharmacy Technology (PHTEC)

Delete course *effective Fall 2005*
101 **Pharmacy Technician Training Course, 11 units, 16 lecture hours, 14 lab hours, (10 weeks), (Credit/No Credit)**

Philosophy (PHIL)

Change: *correct transfer designation*
4 **Critical Reasoning, 3 units, 3 lecture hours**
(A, CSU-GE, UC)

Photography (PHOTO)

Change: *transfer designation* *effective Fall 2005*
15 **Photography and Visual Literacy, 3 units, 2 lecture hours, 3 lab hours, (Repeats = 3)**
(A, CSU-GE)

Physical Education (PE)

Change: *correct CAN designation (add)*
23 **Lifeguard Training, 3 units, 2 lecture hours, 2 lab hours**
(CAN KINE/PE 12)

Physics (PHYS)

Change: *correct transfer designation*
4B **Physics for Scientists and Engineers, 4 units, 3 lecture hours, 3 lab hours**
(A, CSU-GE, UC, I)

Change: *correct transfer designation*
4C **Physics for Scientists and Engineers, 4 units, 3 lecture hours, 3 lab hours**
(A, CSU-GE, UC, I)

Psychology (PSY)

Change: *correct CAN designation (add)*
2 **General Psychology, 3 units, 3 lecture hours, (Formerly Psychology 7)**
(CAN PSY 2) (A, CSU-GE, UC, I)

Change: *correct CAN designation (add)*
2H **Honors General Psychology, 3 units, 3 lecture hours, (Formerly Honors 7P and Psychology 7H)**
(CAN PSY 2) (A, CSU-GE, UC, I)

Change: *correct CAN designation (delete)*
36 **Introduction to Psychophysiology, 3 units, 3 lecture hours**
(A, CSU, UC)

Change: *correct CAN designation (add)*
39 **Child Development, 3 units, 3 lecture hours, 1 lab hour, (See also Child Development 39)**
(CAN FCS 14) (A, CSU-GE, UC, I)

Radiologic Technology (RAD)

Change: description   *effective Spring 2006*

2D   **Quality Assurance in Radiologic Technology, 1 unit, 3 lab hours**

        Prerequisite: Radiologic Technology 1A, 1B, and 1C. **Corequisite:** Radiologic Technology 2A, 2B, and 2C.

        Evaluation of radiographic systems to assure consistency in the production of quality images. Fulfills the computer literacy graduation requirement for Radiologic Technology majors only. (A, CSU)

Respiratory Care Practitioner (RCARE)

New course   *effective Spring 2005*

19   **Work Experience (Cooperative), Occupational, 1-4 units, 1 lecture hour, (Repeats = 3)**

        Corequisite: Fall and Spring Semesters: Must be enrolled in a minimum of 7 units including work experience. Summer Session: Must be enrolled in at least one other course. Supervised employment directly related to the student's major. Offered under specific majors.

        Success on the job, including interpersonal, problem solving, and communication skills; office dynamics and adapting to change. Group interaction. Collaborative learning activities specific to the occupational field. Learning objectives established specific to the particular occupational field. Seventy-five hours of paid employment or 60 hours of volunteer employment per unit per semester. Maximum of 4 units per semester, 16 units total. May be repeated up to three times for not more than 16 units total. (A, CSU)

Change: description   *effective Fall 2005*

23   **Clinical Applications in Respiratory Care II, 8 units, 2 lecture hours, 22 lab hours**

        Prerequisite: Respiratory Care 22. **Corequisite:** Respiratory Care 25. **Advisory:** Eligibility for English 125 and 126 or English 153 or ESL 67 and 68 recommended.

        Introduction into the fully supervised clinical experience of the student respiratory care practitioner, including discerning individual patient needs, developing appropriate care plans, and applying correct procedures to patients in the intensive care setting. Selected computer clinical simulations for exit-testing are integrated with a computer-based research paper. Fulfills the computer literacy graduation requirement for Respiratory Care Practitioner majors only. (A, CSU)

Sociology (SOC)

Change: correct transfer designation

2   **American Minority Groups, 3 units, 3 lecture hours, (See also Human Services 2)**

        (A, CSU-GE, UC, I)

Change: correct transfer designation

10   **Introduction to Aging Studies, 3 units, 3 lecture hours, (See also Human Services 10)**

        (A, CSU-GE, UC, I)

Women's Studies (WSTS)

Change: correct title

24   **LaChicana and Latina, 3 units, 3 lecture hours, (See also Chicano-Latino Studies 24)**

Change: transfer designation   *effective Fall 2004*

30   **Asian-American Women, 3 units, 3 lecture hours, (See also Asian-American Studies 30)**

        (A, CSU, UC)