2007-08 CATALOG MT. SAC **MT. SAN ANTONIO COLLEGE**

SINESS MANAGEMENT • NET AMMING · AERONAUTICS · CULINARY ARTS A IORTICULTURE SCIENCE · PSYCHIATRIC TECHNI OPOLOGY · FASHION DESIGN · MUSIC • COMPUTER PROG **P** - TRANSFER PROGRAMS LAW ENFORCEMENT APV . ENGINEERIN **RV TECHNICIAN**

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ACKNOWLEDGMENTS

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MT. SAN ANTONIO COLLEGE 2007-08 Catalog

ACCREDITATION

Mt. San Antonio College is reviewed and accredited by the Accrediting Commission for Community and Junior Colleges (ACCJC) of the Western Association of Schools and Colleges. This accreditation authorizes the College to offer courses that parallel the first two years of the curricula for state universities. The ACCJC can be contacted in writing at 10 Commercial Boulevard, Suite 204, Novato, California 94949 or by phone at (415) 506-0234.

CATALOG CONTENT CHANGES

Mt. San Antonio College has made every effort to assure the accuracy of the information in this Catalog. Students and others should note that policies, rules, procedures, and regulations change and that these changes may alter the information in this publication. This Catalog is not intended to be a complete statement of policies, rules, procedures, and regulations. More current or complete information may be obtained from the appropriate administrative office and the online version of this Catalog.

The College reserves the right to change, without notice, any academic or other requirement, course offering, or course content contained in this Catalog.

The 2007-08 Catalog does not constitute a contract or terms of a contract between the student and the College.

Mt. San Antonio College 1100 North Grand Avenue Walnut, California 91789-1399

(909) 594-5611 www.mtsac.edu TTY# (909) 594-3447 (Hearing Impaired)

MT. SAC Launching an Era of "New Beginnings"

This 2007-08 College Catalog is being published in conjunction with the conclusion of Mt. San Antonio College's 60th Anniversary celebration. For six decades, we have offered quality, affordable and accessible learning opportunities to more than a million students in the San Gabriel Valley as well as other parts of California and the world.

I encourage you to use this *Catalog* as your planning and resource guide to explore the vast scope of opportunities, services and programs that Mt. SAC offers.

Whether you are pursuing one of the more than 200 degree and certificate programs or upgrading your job skills, we remain fully committed to providing you quality instruction, support services and a first-rate learning environment to prepare you for the real world.

We provide excellent transfer, career and lifelong learning programs that empower you with the knowledge and skills needed to succeed in a diverse and interconnected world. Our curriculum is in step with the fast-changing needs of today's dynamic employment sectors.

Over the past 60 years, Mt. SAC has become a "College of Champions." In virtually every academic, athletic and cultural discipline, we have excelled to the top, garnering local, state, national and even international honors. We are very proud of these accomplishments and the distinction that both faculty and student efforts have brought to the College.

Having celebrated our rich past, Mt. SAC now launches an era of "new beginnings," offering you enhanced programs, a revitalized campus environment, as well as fresh opportunities to foster your success in today's world.

Dr. John S. Nixon Interim President/CEO TION • QUALITY INSTRUCTION • EXCELLEN TION • EXCELLENCE • DISTINCTION • QUALE FUNCTION • QUALITY INSTRUCTION UALITY INSTRUCTION • EXCELLENCE • DI TION • EXCELLENCE • DI

MT. SAC BOARD OF TRUSTEES

Rosanne Bader, President Manuel Baca, Ph.D., Vice President Fred Chyr, Clerk David K. Hall, Ph.D., Member Judy Chen Haggerty, Esq., Member Isaiah Deresa, Student Trustee



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2007-2008 College Calendar

Fall 2007

International student application deadline for Fall 2007
Independence Day—(campus closed) Registration period for 2007 Fall Credit Classes
Community Education Registration begins for Fall 2007
Residency determination date
Fall Semester begins
Application period ends
Labor Day—(campus closed)
Last day to apply for refund for 16-week classes
Last day to add a 16-week class
Last day to withdraw without a "W" for 16-week classes
Last day to change grading option for 16-week classes
Last day to petition for Fall Semester and Winter Intersession graduation
Last day to withdraw from Fall Semester for 16-week classes
International student application due for Winter 2008 Intersession
Veteran's Day—(campus closed)
Thanksgiving Recess—(campus closed)
Registration begins for 2007 Winter Intersession and 2008 Spring Semester Credit Classes
Community Education Registration begins for 2008 Winter Intersession and 2008 Spring Semester
"Book Buy Back" at "SacBookRac"
Final Exams—(see schedule in Mt. SAC Info Guide)
Fall Semester ends

2007-2008 College Calendar		JANUARY 2008
Winter 2008	International students application deadline for Spring 2008	Su M T W Th F Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
November 28, 2007	Telephone & online registration begins for Winter and Spring 2008	FEBRUARY 2008
December 3, 2007	International student application deadline for Spring 2008	SuMTWThFSa 12 3456789
January 2, 2008 January 7 January 14 January 21	Telephone & online registration ends for Winter 2008 Winter Intersession begins Last day to apply for refund for 6-week classes Martin Luther King, Jr. Day—(campus closed)	10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 MARCH 2008
February 17 February 18	Winter Intersession ends Lincoln's Birthday—(campus closed)	Su M T W Th F Si 2 3 4 5 6 7 8 9 10 11 12 13 14 14 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 31
Spring 2008		APRIL 2008 Su M T W Th F Si
November 28, 2007	Telephone & online registration begins for Winter and Spring 2008	
December 3, 2007	International student application deadline for Spring 2008	13 14 15 16 17 18 1 20 21 22 23 24 25 2 27 28 29 30
January 1 - 2, 2008	New Year's Holiday—(campus closed)	MAY 2008
February 20 February 22 February 24 February 25 February 29	Telephone & online registration ends for Spring 2008 Flex/Staff Development Day Residency determination date Spring semester begins Spring application period ends	SuMTWThFSu1234567891011121314151617181920212223222526272829303
March 7 March 7 March 14 March 28 March 31	Last day to apply for refund for 16-week classes Last day to add a 16-week class Last day to withdraw Without a "W" for 16-week classes Last day to change grading option for a 16-week classes Cesar Chavez Day of Observance—(campus closed)	Su M T W Th F S 1 2 3 4 5 6 7 8 9 10 11 12 13 1 15 16 17 18 19 20 2 22 23 24 25 26 27 2 29 30

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2007-2008 College Calendar

Spring 2008 (continued)

April 11	Last day to petition for May 2008 Graduation
May 2	Last day to withdraw from Spring Semester
May 5	International student application deadline for Summer Session 2008
May 14 - June 18	Telephone and online registration for Summer 2008
May 26	Memorial Day—(campus closed)
June 9 - 14	Final Exams—(see schedule in Mt. SAC Info Guide)
June 13	Commencement
June 15	Spring semester ends

Summer 2008

May 5	International student application deadline for Summer 2008
May 14 - June 18	Telephone & online registration begins for Summer 2008
June 18	Telephone & online registration ends for Summer 2008
June 23	Summer session begins
June 30	Last day to apply for refund for 6-week classes
July 4	Independence Day—(campus closed)
July 7	International student application deadline for Fall 2008
August 3	Summer session ends

COLLEGE DIRECTORY

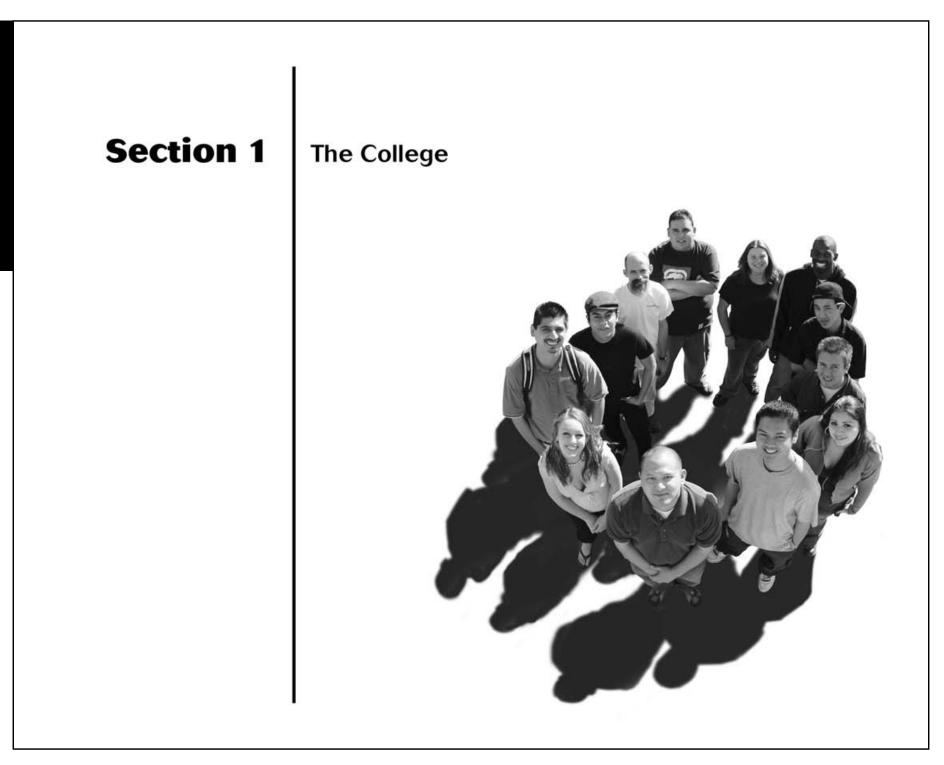
The main telephone number for the College is (909) 594-5611. After you have reached the College, dial the following 4-digit extensions.

Academic Counselor for Student Athletes	*
Academic Senate	*
* Accounting and Management 4909, 4910	*
Advising Center	
Admissions and Records 4415	
* Aeronautics and Transportation	
Affirmative Action	
* Agricultural Sciences	
* Air Conditioning, & Welding	
* Aircraft Maintenance & Manufacturing	
* Alumni Association	*
* American Language	
* Architecture & Design	*
* Art, Animation & Broadcasting	
Art Gallery	
* Arts Division	*
Assessment Center	
Associated Students	
* Athletics	*
	*
Auxiliary Services	
* Biological Sciences	
Bookstore (SacBookRac)	*
Bridge Programs	Ê
Broadcast Services	
* Business Administration	
* Business & Economic Development Division	
Bursar's Office	
CalWORKs	*
Campus Café	*
Campus Security	
Career Placement 4510	
Center of Excellence	*
* Chemistry	
* Child Development Department 4606	
Child Development Center	
Common Grounds Café	*
* Communication	
* Computer Information Systems	*
* Community Education Division	*
Community Education Center 4845	
* Consumer Science & Design Technologies	
Contract Education	*
* Counseling	*
CSEA 262	*
Custodial Services	*
* Dance	*
Disabled Student Programs & Services (DSP&S)	
Distance Learning	
* Earth Sciences & Astronomy	*

* Electronics & Computer Technology 4	821, 4723, 5614
* English, Literature & Journalism	
* ESL & Intercultural Programs	
Event Services	
Exercise Science/Wellness Center	
Express Stop	4141
Extended Opportunity Programs & Serv. (EOPS)	4500
Faculty Association	4531
Farm Tours	
Financial Aid	
* Fire Technology	5146
Fiscal Services	4234
* Foreign Languages	
Foundation Office	
Grants Office	
* Health Careers Resource Center	4788
Health Center	
Help Desk (IT)	4357
* History, Art History, Geography, Political Science	
* Histotechnology	
Honors Program	
Horticulture Unit	
* Humanities & Social Sciences Division	
Human Resources	
Information Technology	
Instruction Office	
KSAK Studio	
* Language Learning Center	
* Learning Assistance Center	
Learning Lab	
Library	
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Mountie Stop	
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* Paralegal	
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* Physical Therapy Aide	
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* Degistered Veterinary Technology	
* Registered Veterinary Technology	
Registration	
Relays Office	
Research & Institutional Effectiveness	
* Respiratory Therapy	
SacBookRac	
Security (Campus)	
* Service Learning	
* Sign Language	
Small Business Development Center	. (909) 629-2247
* Sociology, Philosophy	
Stadium Ticket Office	
Student Center	
Student Life & Student Clubs	
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Student Services, V.P. Office	4505
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* Technology & Health Division	4750
* Theater	
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Upward Bound	
Veterans' Service Center	4520
Warehouse	
Weekend College	
Wellness Center	
Wildlife Sanctuary Tours	
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* Instructional Programs and Departments



MT. SAN ANTONIO COLLEGE

Mt. San Antonio College (Mt. SAC) is a public community college that offers a diversified educational program designed to prepare students for success in today's diverse economic professional, technical and cultural sectors. The objectives of the education program are to:

- prepare students for transfer to baccalaureate-level colleges and universities.
- increase vocational competence resulting in usable and marketable occupational skills.
- provide a general education emphasizing basic skills and appreciation of our shared scientific, technological, historical and artistic heritage.
- promote continuing education and lifelong learning.
- assist the student through guidance to know and develop his/her abilities in relation to his/her potential.
- provide community service and adult education.

The College offers courses of study through a semester system. Each semester, Fall and Spring, is 16 weeks in length, while summer and winter sessions are 6 weeks long. Many courses are offered in an accelerated mode.

Instruction at Mt. SAC is organized under a divisional structure with departments within each division. At present, the College has eight (8) instructional divisions within which are 41 departments.

HISTORY

The Mt. San Antonio Community College District was created in December, 1945, when voters of four local high school districts approved the formation of a community college district. Initially known as Eastern Los Angeles County Community College; the institution was later renamed Mt. San Antonio College after the most visible snow-capped mountain (popularly known as Mt. Baldy) in the distance behind the campus.

The 421-acre campus was originally part of the 48,000-acre La Puente Rancho. During World War II, the facility was converted into an Army hospital and later a Navy hospital.

Mt. SAC opened in the fall of 1946 with 635 students occupying a few Spanish-tiled buildings and temporary Navy barracks clustered below the San Jose Hills. Walnut, not yet an incorporated city, consisted of very little except dirt roads, cacti, and grasslands covered in the spring with wild mustard grass.

Not surprisingly, the growth of Mt. SAC has mirrored that of the local area. The College now serves the communities of Baldwin Park, Bassett, Charter Oak, Covina, Diamond Bar, the southern portion of Glendora, Hacienda Heights, City of Industry, Irwindale, La Puente, La Verne, Pomona, Rowland Heights, San Dimas, Valinda, Walnut, and West Covina. Mt. SAC has emerged as a leader in education not only in the San Gabriel Valley, but in the state. It is California's largest, singlecampus community college with a combined Credit, Continuing Education, and Community Service student enrollment of nearly 40,000. In 2006, Mt. SAC proudly celebrates 60 years of educational excellence. The College will continue to offer access to quality programs and services as well as provide an environment for educational excellence throughout the 21st Century.

MISSION, VISION, AND VALUES

Mission

It is the mission of Mt. San Antonio College:

- to provide accessible and affordable quality learning opportunities in response to the needs and interests of individuals and organizations.
- to provide quality transfer, career, and lifelong learning programs that prepare students with the knowledge and skills needed for success in an interconnected world.
- to advance the State and region's economic growth and global competitiveness through education, training, and services that contribute to continuous workforce improvement.

Vision

It is the vision of Mt. San Antonio College:

- to become a premier community college.
- to be a leader in teaching, learning, programs and services.

- to provide access to quality education, focusing on student success within a climate of integrity and respect.
- to consistently exceed the expectations of our students, staff, and community.

Core Values

■ INTEGRITY

We treat each other honestly, ethically, and responsibly in an atmosphere of trust.

DIVERSITY

We respect and welcome all differences, and we foster equal participation throughout the campus community.

■ **COMMUNITY BUILDING** We work in responsible partnerships through open communication, caring, and a cooperative spirit.

STUDENT FOCUS

We address the needs of students and the community in our planning and actions.

■ LIFELONG LEARNING

We promote the continuing pursuit of high educational goals through equal access to excellence in both teaching and support services.

POSITIVE SPIRIT

We work harmoniously, show compassion, and take pride in our work.



The College

BOARD OF TRUSTEES

President	
Vice President	
Clerk	Fred Chyr
Member	Dr. David K. Hall
Member	
Student Trustee	Isaiah Deresa
Interim College President	Dr. John S. Nixon

ADMINISTRATION

Administrative Services	Ext. 4230
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Administrative Director, Auxiliary Services	Jay Devers
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Director, Bookstore	Suzanne Luetjen
Director, Bursar's Office	Sheree Culross
Manager, Custodial Services	Luis Gracia
Director, Facilities Planning and Management	Gary Nellesen
Assistant Director, Facilities, Planning and Management	Becky Mitchell
Facilities Project Manager	Roger Sneed
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Assistant Director, Fiscal Services	Rosa Royce
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Director, Maintenance	Kent Smith
Director, Payroll	Donna Evans
Director, Public Safety	Doug Evans
Assistant Director, Public Safety	,
Director, Purchasing	Margaret Young
Director, Safety, Health Benefits, and Risk Management	Karen Saldana
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Human Resources	Ext. 4225
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Director, Human Resources	Trinda Hoxie
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Chief Technology Officer	
Director, College Information Systems and Project Manager	Sheryl Hullings
Director, User Support and Network Services	

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Director, Marketing and Communication	
Director, Development and Foundation	Leslie Kerr
Instruction	Ext. 4200
Interim Vice President, Instruction	Dr. Virginia Burley
Interim Dean, Instructional Services	
Dean, Arts Division	Dr. Susan Long
Dean, Business and Economic Development Division	John Heneise
Associate Dean, Business and Economic Development Division	Vacant
Director, Child Development Center	Janette Henry
Dean, Humanities and Social Sciences Division	Dr. Stephen A. Runnebohm
Associate Dean, Humanities and Social Sciences Division	James Jenkins
Dean, Library and Learning Resources Division	Kerry Stern
Director, Learning Assistance Center	Meghan Chen
Dean, Natural Sciences Division	
Associate Dean, Natural Sciences Division	Vacant
Dean, Physical Education Division	Deborah Blackmore
Director, Physical Education/Wellness Programs	Joe Jennum
Interim Dean, Technology and Health Division	Dr. Sarah Daum
Associate Dean, Technology and Health Division	Vacant
Director, Nursing Program	
Assistant Vice President, Community Education	Barbara Crane
Director, Basic Skills	
Director, Community Education and Contract Training	Gary Kay
Director, ESL and Intercultural Programs	Donna Burns
Assistant Director, ESL and Intercultural Programs	Liza Becker
Coordinator, ESL Curriculum and Assessment	Margaret Teske
Director, Grants	Adrienne Price
Director, Research and Institutional Effectiveness	Barbara McNeice-Stallard
Student Services	Ext. 4505
Vice President, Student Services	Dr. Audrey Yamagata-Noji
Dean, Counseling	
Associate Dean, Counseling	Thomas Mauch
Dean, Student Services	Carolyn Keys
Dean, Enrollment Management	Dr. George Bradshaw
Assistant Dean, Enrollment Management	Patricia Montoya
Director, Upward Bound	Juan Carlos Astorga
Coordinator, CalWorks/CARE	
Director, Assessment and Matriculation	James Ocampo
Director, Career and Transfer Services	Heidi Lockhart
Director, Disabled Student Programs and Services (DSP&S)	

Ext. 4220

ADMINISTRATION (continued)

INSTRUCTIONAL DIVISIONS

Arts Division

Dr. Susan Long, Dean

The Arts Division is comprised of four departments: Art/Animation, Music, Photographics, and Theater. The division sponsors numerous award-winning performance groups, houses an art gallery, and includes studio arts as well as digital arts and radio and television programs. The division sponsors student drama and music productions in the Performing Arts Center, oversees the animation and radio and television certificate programs, and monitors the college radio station, KSAK, as well as vocational degrees and certificates in Photography, Computer Graphics and Design for Interactive Visual Media. The division has performing groups that have competed internationally and have established top national and international ranking. For information relating to departments, programs, or events, contact the division office at ext. 5200.

Business and Economic Development Division

Ext. 4600

Ext. 5200

John Heneise, Dean Associate Dean (*vacant*)

Business and Economic Development is comprised of five educational departments, three Economic Development programs and one service area. The educational departments are: Accounting and Management, Business Administration (Paralegal Studies, Marketing, Sales, Real Estate and Economics), Computer Information Systems (Programming, Networking and Security), Child Development, Consumer Science and Design Technologies, and Office Technology. For additional information, contact the division at ext. 4600.

The Economic Development programs are Small Business Development Center, Center of Excellence, and Contract Education South. For additional information, contact specific offices listed below.

The division also includes the services of the Child Development Center.

The division's programs and services are designed to insure high quality education delivered in up-to-date facilities, meeting job requirements and the needs of the community.

Economic Development Directors

Center of Excellence	Audrey Reille, Ext. 6106
Contract Education South	Scott Hammer, 909-628-5748
Small Business Development Center	Daniel Morales, 800-450-7232

INSTRUCTIONAL DIVISIONS (continued)

Community Education Division

Barbara Crane, Assistant Vice President

The Community Education Division provides a range of courses serving students and community members enrolled in noncredit courses and programs. Mt. San Antonio College provides matriculation services to assist individuals seeking to enter the workforce or access further education in the following categories: Basic Skills, English as a Second Language, Programs for Adults with Disabilities, Citizenship, Parenting, and Short-term Vocational Programs. Community Education houses additional programs and resources as follows: The Language Learning Center, offering resources for learning new languages; the Older Adult Program promoting lifelong learning and ongoing career skills training; the Training Source that provides customized on-site courses for a variety of organizations; and the Health Careers Resource Center for health-related skills development. For additional information on courses, services, and programs offered, contact the division office at ext. 4220.

Humanities and Social Sciences Division

Ext. 4570

Dr. Stephen Runnebohm, Dean James Jenkins, Associate Dean

The Humanities and Social Sciences Division is comprised of eight departments: American Language; Communication; English, Literature and Journalism; Foreign Languages; History, Art History, Geography and Political Science; Psychology and Education; Sign Language; and Sociology, Philosophy.

The division sponsors interdisciplinary and national award-winning programs and publishes the student newspaper, The Mountaineer, through journalism courses. The division also supports a nationally ranked forensics program, a successful study abroad program, and the Teacher Preparation Institute. For additional information, contact the division at ext. 4570.

Library and Learning Resources Division

Ext. 4260

Kerry C. Stern, Dean

Meghan Chen, Director, Learning Assistance Center

The Library and Learning Resources Division includes Learning Assistance, Learning Lab, Library, Media Services, Professional and Organizational Development, Tutoring Services, and Distance Learning. Housed in the Learning Technology Center, the various departments provide support services for all students at the College.

Departments

Distance Learning	Ext. 5658
Learning Assistance	
Library	Ext. 4260
Media Services	Ext. 4270
Professional and Organizational Development	Ext. 4504
Tutoring	Ext. 6605

INSTRUCTIONAL DIVISIONS (continued)

Natural Sciences Division

Larry L. Redinger, Dean Associate Dean (vacant)

The Natural Sciences Division provides a wide variety of diverse educational opportunities and programs within its six departments: Agricultural Sciences; Biological Sciences; Chemistry; Earth Sciences, and Astronomy; Mathematics and Computer Science; and Physics and Engineering.

Agricultural Sciences provides numerous vocational programs leading to an Associate Degree or Certificate including programs in Animal Science, Equipment Technology, Registered Veterinary Technology, and Ornamental Horticulture. Biological Sciences offers a variety of courses for both majors and non-majors, including specific programs in Anatomy and Physiology, Anthropology, Histotechnology, Microbiology, Botany, and Zoology. Chemistry offers a full range of lower-division courses, including introductory, general, and organic chemistry. Earth Sciences and Astronomy provide course work in geology, oceanography, meteorology and astronomy. Mathematics and Computer Sciences provide courses for students at all levels of computational ability, from pre-algebra to calculus and differential equations. Physics and Engineering offers several course sequences in classical physics, as well as courses in Physical Science. The Engineering program provides a solid foundation of lower-division courses for those students preparing to transfer to a baccalaureate-level institution. For additional information, contact the division at ext. 4425.

Physical Education Division

Ext. 4630

Ext. 4425

Deborah Blackmore, Dean/Athletic Director Joe Jennum, Director/Physical Education and Wellness Programs

Mt. San Antonio College has been a leader among community colleges for over 50 years. Our strong commitment to Physical Education, Athletics and Dance is exhibited by our dedication to the health and well being of our students and our community. Our comprehensive class offerings, certificate programs, Fire and Law Testing (PAT)/Conditioning Program, Dance Productions, Athletic Programs and Athletic Special Events demonstrate this commitment.

Mt. SAC is home to one the nation's largest and most successful community college athletic programs for men and women. The Championship Winning Athletic Program offers 22 individual sports and is an integral part of the College's overall educational offerings. Mt. SAC Student/Athletes excel on the field and in the classroom. Our "WIN" academic support program provides testing, tutoring and counseling services for all our student/athletes and serves as the "model" academic support program for all community colleges.

Mt. SAC's five "World Famous" annual athletic special events—the Mt. SAC Relays, Mt. SAC Cross Country Invitational, Footlocker Western Regional Cross Country Championship, AAF Youth Days Program and the International Pole Vault Camp—reach over 100,000 participants, coaches and spectators, bringing millions of dollars into the local economy.

INSTRUCTIONAL DIVISIONS (continued)

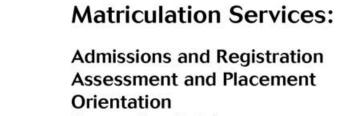
Technology and Health Division

Dr. Sarah Daum, Interim Dean Associate Dean (*vacant*)

The Technology and Health Division provides 31 certificates and 31 degrees in occupational and vocational programs in the areas of technology, public services, and health care. The programs offer a variety of Associate in Science Degrees and certificates leading to job placement, transfer, and updating of skills. Programs offered in technology include Aeronautics, Air Conditioning and Refrigeration, Aircraft Maintenance, Architecture and Engineering Design, Electronics Technology, Travel, Water Technology, and Welding. The Public Services Programs include Fire Technology, Administration of Justice, Correctional Sciences, and Alcohol and Drug Counseling. Health Care Programs include Medical Services, Mental Health, Radiologic Technology, Respiratory Technology, and Nursing. The Associate Degree Nursing program provides quality preparation for students seeking a career as a Registered Nurse. Programs are driven by industry needs, and many are governed by State accrediting boards. In addition, the division includes The Regional Health Occupations Resource Center (RHORC) and the RHORC at ext. 6108. For additional information, contact the division at ext. 4750.

Department

Regional Health Occupations Resource Center Ext. 6101



J-F

Counseling/Advisement

Section 2

ADMISSION AND REGISTRATION

Admissions

Admission to Mt. San Antonio College includes the filing of an application for admission by the student and the filing of transcripts from high school or college(s). It is the student's responsibility to request official transcripts from the last high school attended and any college(s) attended. Transcripts will be reviewed to determine eligibility for courses at Mt. SAC.

Application to the College

All inquiries regarding admission to the college should be directed to the Admissions and Records Office. Admission is granted only by filing an official application for admission using one of the following methods:

- The application for admission of credit classes can be submitted online. To access the online application, visit the Mt. SAC Admissions Website at *http://admissions.mtsac.edu* and click on the online application link at the tip of the web page.
- 2. Applications for admission to credit classes are available at the Admissions and Records Office and are also included in each Mt. San Antonio College *Schedule of Classes*. You may submit this application in person or mail it to:

Admissions and Records Mt. San Antonio College P.O. Box 910, Walnut, CA 91788-0910.

Residency Requirements Residency Guidelines

This statement is a general summary of the principal rules of residency and their exceptions and should not be construed as the actual expression of the laws used by the Mt. San Antonio College Admissions Officer for residency determination. Reference should be made to Chapter 1 (commencing with Section 68000) of Part 41 of Division 5 of the Education Code, regulations of the Board of Governors of the California Community Colleges in Chapter 1 (commencing with Section 54000) of Division 5 of Part VI of Title 5 of the California Administrative Code, and the regulations and guidelines available in the Admissions and Records Office.

Residence Classification

Each person enrolled in or applying for admission to Mt. San Antonio College will, for purposes of admission and/or tuition, be classified as a "resident," or a "non-resident".

- 1. **Resident:** A"resident" is a person who is eligible to establish California residency for tuition purposes or who has resided within California for at least one year and who has established a legal residence in California prior to the residency determination date.
- 2. **Non-resident:** A "non-resident" student is one who has not resided in the State for more than one year prior to the residency determination date and who has not established legal residence or who is not eligible to establish California residency for tuition purposes.

Criteria for Determination of Legal Residence

To determine a person's place of residence, reference is made to the following:

- 1. Every person has, in law, a residence.
- 2. Every person who is married* or 18 years of age or older, and under no legal disability to do so, may establish residence.
- 3. In determining the place of residence, the following rules are to be observed:
 - a. There can be only one residence.
 - b. A residence is the place where one remains when not called elsewhere for labor or other special or temporary purposes, and to which that person returns in seasons of repose.
 - c. A residence cannot be lost until another is gained.
 - d. The residence can be established and/or changed only by the union of act and intent.
 - e. A man or a woman may establish his or her residence. Thus, it is possible that a woman who is married to, and living with, her husband may have a residence separate from his. A woman's residence shall not be derivative from that of her husband.
 - f. The residence of the parent with whom an unmarried minor child maintains his/her place of abode is the residence of the unmarried minor child. When the minor lives with neither parent, his or her residence is that of the parent with whom he/she maintained his or her last place of abode; however, the minor may establish his or her own residence provided both parents are deceased and a legal guardian has not been appointed.
 - g. The residence of an unmarried minor who has a living parent cannot be changed by his or her own act, by the appointment of a legal guardian, or by relinquishment of a parent's right of control, unless the student qualifies for the self-supporting exception.

Burden of Proof

The burden of proof is on the student to clearly demonstrate both physical presence in California and intent to establish California residence.

Residence Classification Appeal

Any student, following a final decision on residency classification by the Admissions and Records Office, may make written appeal to the Appeals Committee of Mt. San Antonio College within 30 calendar days of notification of final decision regarding classification.

College Starter Program

The College Starter Program is designed for gifted high school juniors and seniors who would benefit from taking advanced scholastic or vocational work at Mt. San Antonio College. Students must meet the following criteria to participate in the College Starter program:

- 1. Be recommended by their high school principal or counselor
- 2. Be approved to participate by their parents
- 3. Have a 2.0 cumulative high school grade point
- 4. Meet all course prerequisites
- 5. Students with a high school grade point average between 2.0 and 2.9 will be allowed to enroll in a single course. Students wishing to enroll in two courses must have a 3.0 grade point average or above.

Only college level courses may be taken as part of the College Starter Program. Students may not enroll in a course to make-up a high school course deficiency.

Special Admit Program

The Special Admit program is designed for gifted students enrolled in the 10th or earlier grades. The program is designed to provide an enrichment experience providing course opportunities not available as part of their school's curriculum. To participate, students must meet the following criteria:

- 1. Be recommended by their high school principal or counselor
- 2. Be approved to participate by their parents
- 3. Have a B average/3.0 cumulative school grade point average
- 4. Meet all course prerequisites
- 5. Take the Mt. SAC placement test in English and Reading

Only college level (degree appropriate and/or UC/CSU transferable) courses may be taken as part of the College Starter Program or Special Admit Program. Students may not enroll in a course to make-up a high school course deficiency.

^{*} A minor, married but subsequently divorced, retains the capacity to establish his or her own residence. An annulment of the marriage (a determination that in effect the marriage never took place) will require that the minor be treated like any other minor.

Students participating in either program will receive college credit that will become part of their permanent college record. High school credit may be possible at the discretion of the receiving high school.

Evaluation of Other College Coursework

Mt. San Antonio College reserves the right to evaluate work completed in other regionally accredited colleges and universities. Transfers with acceptable grades will be granted advanced standing insofar as the work corresponds with the curriculum of this institution or the lowerdivision work offered in accredited colleges or universities. Each applicant should file with Admissions and Records an official transcript of their records from all colleges and universities previously attended. This material should be furnished at least two weeks prior to registration. For information regarding military credit, see Section III in this Catalog.

It is the student's responsibility to request the evaluation of official transcripts from other colleges. This may be accomplished by submitting a completed "Evaluation Request" form at Admissions and Records.

Students planning to use courses taken at other colleges for placement in Mt. San Antonio College courses who did not have transcripts sent to Admissions and Records must bring official copies of their transcripts at the time they register. Transcripts may also be required at the first class meeting.

Transcripts submitted for admission become the property of Mt. San Antonio College and cannot be returned to the applicant or forwarded to other institutions.

Acceptance of Domestic Coursework from Accredited Colleges and Universities in the United States

The College will accept "degree appropriate" or "baccalaureate" level courses from accredited colleges and universities in the United States. These course units will, at a minimum, be granted "elective credit" status.

To determine General Education and/or Associate Degree equivalency and for granting of unit credit, the course must be easily identifiable as the same course taught at Mt. San Antonio College by a commonly used course prefix, title, and description. To be verified, sufficient information, including prerequisite information, must be available from the accredited college/university to substantiate granting course equivalency and course credit. The College reserves the right to deny acceptance of any course for the purpose of General Education, Associate Degree graduation requirements, or subject requirements. If denied, the student may petition for an in-depth evaluation but will be required to provide official course information from the institution of record or from the college/university catalog.

To determine "subject" requirements for an established vocational program, the course must be evaluated by a representative from the respective academic department in which the major resides. If the course is determined acceptable as a substitution for a required course in the program, the department representative will complete a "variance" form verifying this acceptance and complete the paperwork at Admissions and Records.

Articulation with High Schools, ROPs, and Adult Schools

School District, Adult Education, and Regional Occupational Program (ROP) teacher will make students aware of the procedures for obtaining advanced placement and/or credit by examination at Mt. San Antonio College in an articulated program.

Students must request a 2+2 Articulation Credit form from their High School, ROP, Adult School, or Tech Prep office.

Students will complete a 2+2 Articulation Credit form and have the form certified by the appropriate instructor from their school program. Students requesting Articulation Credit will complete a College Starter Program application and attach their high school transcript.

At the conclusion of the High School, ROP or Adult School course, students must submit the completed 2+2 Articulation Credit form, application, and transcript (for Articulation Credit) to the Tech Prep office at Mt. San Antonio College.

If the course work has been satisfactorily met, the subject area department chair will complete the Request for Articulation Equivalency form and check the box marked variance. Students seeking credit through the articulation process are required to take an exam. If the exam requirement has been satisfactorily met, the subject area department chair will complete the Request for Articulation Equivalency form and check the box marked credit.

Upon receipt of the 2+2 Articulation Credit form (plus application and student transcript for Articulation Credit), the Tech Prep office will prepare the Request for Articulation Equivalency form and forward it to the appropriate department. Once the form is completed and returned to the Tech Prep office, the student will be notified of advance placement or credit standing. Students who are granted credit will receive an unofficial transcript.

Articulation agreements and subject area competencies are updated annually.

College credit issued by ROP and/or Adult Education centers will be accepted if the issuing program is accredited by the Accrediting Commission for Community and Junior Colleges (ACCJC) or the Senior College Commission, under the auspices of the Western Association of Schools and Colleges (WASC).

Admission of International Students

Mt. San Antonio College encourages applications from students holding or attempting to obtain the F-1 Visa. The following items are required from international applicants:

- Mt. SAC Application for Admission
- International (F-1 Visa) Student Application
- Application processing fee of \$50.00 (U.S.)
- Confidential Financial support documents
- A "paper based" TOEFL score of at least 450, "computer based" TOEFL score of at least 133, or an Internet-based score of at least 45.
- Transcripts from high school and/or college attended
- TB (tuberculosis) test
- Proof of health insurance (prior to registration)

The following items are required for current F-1 Visa students transferring into Mt. SAC:

- Copy of I-20
- Copy of I-94
- Transfer form

The deadlines to apply for the 2007-08 school year are as follows:

- Summer 2007 First Monday of April
- Fall 2007 First Monday of June
- Winter 2008 First Monday of November
- Spring 2008 First Monday of December

F-1 Visa students can obtain all application materials from our College Website at www.mtsac. edu. From The Mt. Sac home page, click on "Apply or Register," click on "Forms and Publications," then click on "Application for International Students." TOEFL scores, admissions application (both college and International Student Application), and all supporting materials must be received on or before the term deadlines listed above. Students will be required to take the Assessment of Written English (AWE) when they arrive at Mt. San Antonio College. Applications received after the deadline will be considered for the following semester. The application fee must accompany the admission application.

Registration

Registration for classes is done online via the web at http://my.mtsac.edu or by touchtone telephone at (909) 595-MSAC (595-6722). Students who enrolled in the previous semester or session preceding the enrollment term are eligible to register for classes and will be mailed a Permit to Register at least two weeks prior to the beginning of registration. Mailing of Permits to Register for new applications is dependent on the date an application is submitted.

Students who do not receive a permit in the mail before the first day of registration may also check their date and time to register at *http://my.mtsac.edu.* Students should remember to update their mailing address at the above web site or at the Admissions and Records Office.

Schedule of Classes

The Mt. SAC *Schedule of Classes*, which indicates intended course offerings and teaching assignments for both credit, noncredit and community education courses, is published each semester. The credit course offerings are found in the front of the schedule, along with an admissions application for credit course offerings. The noncredit and community education course listing appears towards the back of the book and also includes the smaller noncredit/community education registration card. The combined *Schedule of Classes* is also available on campus, on the Mt. SAC website (*www.mtsac.edu*) and at community libraries. The College reserves the right to cancel, reschedule, equalize, or combine classes and to change professors where such action is deemed necessary. Because of facilities limitations, any class section or program will be closed as soon as enrollment has reached the maximum designated for that class or program.

Enrollment Fees and Expenses

Students are charged an enrollment fee, an optional Student Activities Fee, a Student Health Services Fee, and for some classes Materials Fees for each semester at Mt. San Antonio College. These fees are subject to change. Please consult the latest *Schedule of Classes* for current fees and other related information. Students must purchase their own textbooks and supplies. Expenses for books and supplies for full-time students may average \$300 to \$400 per semester depending upon the program of study selected.

Students wishing to park in the regular student parking lots are required to have a valid Student Parking Permit. The permit may be purchased at the time of registration (*if paying by credit card*) or at the Bursar's Office located in Building 9A.

Refund of Fees

To be eligible for a refund, students must complete and file a Request for Fee Refund form at the Bursar's Office. The Request for Fee Refund form must be completed whether a class is dropped in person, online or by Telephone Registration. Requests for Fee Refund forms must be completed prior to the end of the second week of each semester for 16 week classes, and prior to the end of the first week for short-term classes. This refund period applies to the following fees:

- Enrollment Fee
- Student Activities Fee (optional)
- Student Health Services Fee

- Parking Fee (optional)
- Course Materials Fee

NO REFUNDS will be granted after the second week of the semester, military withdrawal, and classes cancelled by the College.

Military Refund: In the case of students who are members of an active or reserve military unit and who receive orders compelling a withdrawal from courses, the College shall, upon petition by the affected student, refund the parking fee, health fee, materials fee, Student Activities Fee, entire enrollment fee and non-resident tuition fee unless academic credit is awarded.

NOTE: A \$10 refund processing fee will be assessed to every refund where enrollment fees are being returned. The processing fee will not apply to refunds for college cancelled classes or special administrative drops.

Cancelled Classes

Classes may be cancelled at the discretion of the College. Students enrolled in such a class will be permitted to enroll in other open classes.

Students who have a class or classes cancelled by the College because of low enrollment are eligible for a full refund of fees paid for those classes. To receive the fee refund, the student must complete and file a Request for Fee Refund at the Bursar's Office. All applicable receipts, cards, and permits must be attached to the request form.

Student Obligations

Mt. San Antonio College will withhold grades, transcripts, diplomas, and registration privileges, or any combination thereof, from any student or former student who fails to pay a proper financial obligation due the College (e.g., returned check, unpaid enrollment fees, unpaid loan, equipment breakage, unpaid library fine, etc.). Any item or items withheld shall be released when the student satisfactorily meets the financial obligation.

There is a processing fee of \$25 for returned checks or stop payment of checks.

Students having disciplinary obligations with the Student Life Office will not be allowed to transact College business until the obligation is met.

ASSESSMENT AND PLACEMENT

Most students attending Mt. San Antonio College are required to participate in assessment. The assessment and placement process has been established to enable all students an opportunity to achieve probable success in their course work. In addition, the process allows the faculty to instruct their courses at an appropriate level with the knowledge that students will be reasonably prepared.

Placement Tests

Placement tests are required for appropriate course placement. Students take placement exams for math, English and reading courses. Advanced level math placement exams should be taken when applicable to the student's academic background and intended program of study.

English Placement

The College utilizes the Assessment of Written English (AWE) to evaluate students' writing skills. Most students are required to have their English competency assessed prior to registration. Based on the assessment, students are placed in one of the following categories:

- A. Eligible for English classes. Based on assessment results, students will be eligible for either ENGL 1A, 68, 67, or LERN 81.
- B. Eligible for AMLA writing courses (designed for students who are not fluent in the English language). Students may enroll in AMLA writing courses and continue enrolling in AMLA writing courses until they are eligible for ENGL 67 or ENGL 68.
- C. Eligible for ESL (English as Second Language) classes. Students may enroll in ESL adult education courses each semester until eligible for AMLA courses; then enroll in AMLA courses each semester until they are eligible for ENGL 67 or English 68.

Students in any of the categories listed above may enroll in other courses for which they are eligible. Students with limited English skills are not prohibited from enrolling in vocational courses.

Math Placement

The College utilizes a selection of assessment instruments to place students into math courses. Students take one of the math placement exams commensurate with their most recent, successful completion of Pre-Algebra, Algebra, Intermediate Algebra and Pre-Calculus.

Reading Placement

The College utilizes the Degrees of Reading Power (DRP) reading test to assess student reading skills. Based on the results of the reading test, the student will be advised to take an appropriate reading course.

Retest Policy

Students may repeat a test once every three months. Under certain extenuating circumstances and with approval of the Director of Assessment, a test may be repeated prior to the three-month limit.

Placement Test and Eligibility Time Limits

Placement test scores are valid for two years from the date the test was taken. Eligibility based on test placement is not valid after the two-year expiration period. Eligibility based on previous coursework does not expire.

Test Scores and Placement from Other Colleges

Math test scores will be accepted from other colleges if that college uses the same test as Mt. SAC. Test scores from other college English tests are not accepted. Mt. SAC does not accept placement granted at other colleges.

Appeals Process

Students may appeal their English and/or math placement if they can demonstrate alternate proof of course equivalency or competency. If extenuating circumstances exist that may affect course placement, students may seek consultation in the appropriate division office. Students should be prepared to present documentation such as high school or college transcripts, additional test results, or work experience.

Ability to Benefit

Students applying for financial aid who have not acquired a high school diploma or GED must perform at a passing level on an Ability To Benefit test. The test is approved for use by the federal government, and passing scores have been established by the Department of Education. Testing is conducted at the Assessment Center. For further information regarding Ability to Benefit regulations, contact the Financial Aid Office.

ORIENTATION – CREDIT STUDENTS

Orientation is required for all new students who are enrolling in Mt. San Antonio College. This includes students who may want to take one course, or those who are transferring from another college. The only exception is for students who have a degree from an accredited college/university.

Orientation includes information regarding college programs, services, procedures, student responsibilities, and other related information. Students will have the opportunity to meet with a counselor or an advisor to develop a first semester educational plan.

The College has determined the importance of an orientation to college as a factor in success. Prospective students are urged to make an appointment for orientation immediately after filing an application and taking the necessary placement tests.

COUNSELING/ADVISEMENT

Counseling and advising services are provided to matriculated students who are in need of additional assistance regarding course selection, major selection, and transfer information and planning. Students are encouraged to meet with a counselor during their first semester of enrollment to develop an Educational Plan. The Educational Plan lists the courses needed to complete a specific major, as well as identifying graduation and/or transfer requirements in general education. Students who are undecided about their major and/or career and educational goals, should make an appointment in the Counseling Center to meet with a counselor. Career counseling services are available to students at no cost, to assist students in making the most appropriate choices about their future.

EXEMPTION FROM MATRICULATION

Students are exempt from Matriculation requirements if they are:

- A. enrolled in Community Services classes only;
- B. graduates with an Associate or advanced degree from an accredited institution; or
- C. registering only in general interest classes.

Exemption from matriculation does not preclude the requirement to meet course prerequisites which may include assessment.

PRE-COLLEGIATE BASIC SKILLS

Courses designated "Pre-Collegiate" develop basic skills in reading, writing, and mathematics. They will neither count toward graduation from Mt. San Antonio College, nor transfer to a baccalaureate institution.

PREREQUISITES, COREQUISITES, AND ADVISORIES

Faculty at Mt. SAC have established prerequisites, corequisites and advisories for courses. If a student does not meet the prerequisite or corequisite requirements, the student will be blocked from enrolling in those courses. Transcripts and grade report cards from other colleges used to determine whether pre or corequisites have been meet must be evaluated prior to registration.

Prerequisite

Prerequisites to a course are those courses which must have been taken previously as preparation for the course. To enroll in a class that has a prerequisite, the required preparation must have been completed prior to enrolling in the course. In some instances, **English and math prerequisites** may be met by attaining eligibility through assessment. All **course prerequisites** listed must be completed with a grade of "C" or better, unless otherwise stated.

Corequisite

To enroll in a course that has a corequisite, the corequisite course must be taken concurrently. In some instances, a corequisite may have been taken previously.

Advisory

An advisory to a course is preparation which is highly recommended by faculty teaching the course. Although students may enroll in a course if they do not possess the advisory skills, they are encouraged to abide by an advisory whenever possible.

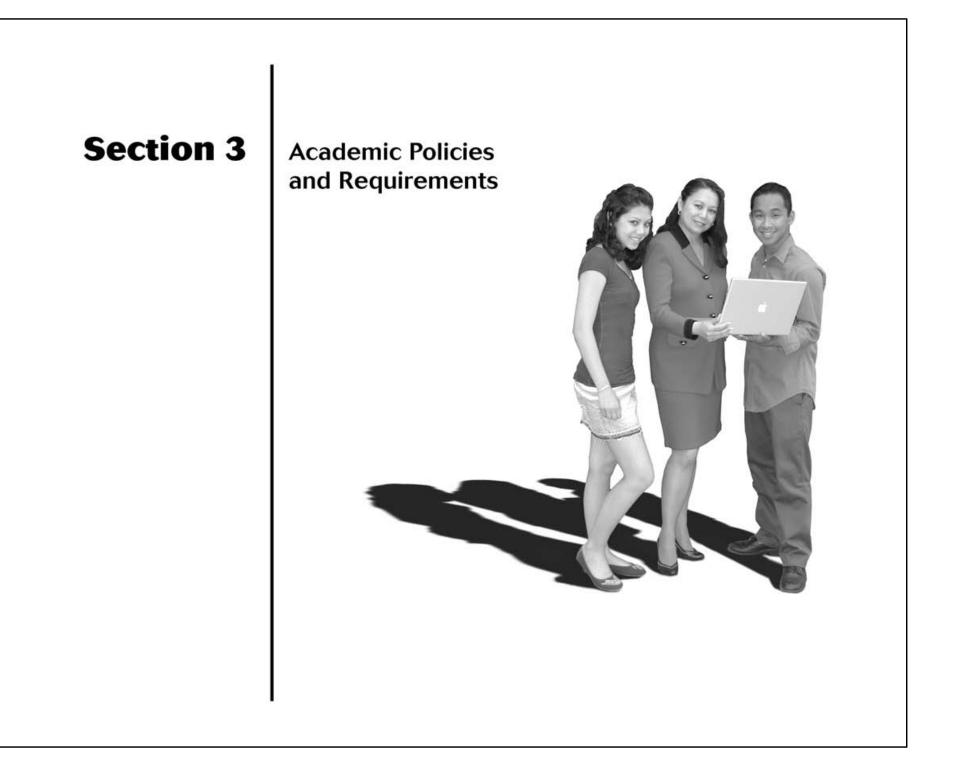
CHALLENGING PREREQUISITES

If a student believes that any of the following conditions exist with regard to an existing course prerequisite or corequisite, the student may obtain a Petition to Challenge form from the Counseling Office or Admissions and Records Office in the Student Services Building or from division offices.

- The prerequisite or corequisite has not been established in accordance with the College's process for establishing prerequisites and corequisites;
- The prerequisite or corequisite is in violation of State Title 5 regulations;
- The prerequisite or corequisite is either unlawfully discriminatory or is being applied in an unlawfully discriminatory manner;
- The student has the knowledge or ability to succeed in the course or program despite not meeting the prerequisite or corequisite;
- The student will be subject to undue delay in attaining the goal of his or her educational plan because the prerequisite or corequisite course has not been made reasonably available; or
- Such other grounds for challenge as may be established by the district governing board.

The student must provide appropriate documentation when filing a challenge with the appropriate division office.

Documentation may include, but is not limited to, high school or college transcripts, additional test results, work experience, or an oncampus writing sample. Prior enrollment in the course does not exempt a student from the current prerequisite of that course.



ATTENDANCE AND ENROLLMENT

Attendance

Students are expected to attend all class meetings. It is the students' responsibility to know the attendance and absence policies of their professors.

Professors will take attendance at all class meetings. It is the responsibility of each professor to inform his/her classes of the attendance and absence policies at the beginning of each semester.

It is the student's responsibility to officially drop a class whenever he or she determines that he or she can no longer attend the class. Failure to drop a class officially may result in a failing grade and/or a financial obligation to the college.

Instructors may drop students from their class rolls through the last day of the tenth week of instruction of a regular semester for excessive absence as defined by the instructor.

Students will be granted College-authorized absences for participation in the following activities:

- 1. Player participation in inter-collegiate athletics and activities.
- 2. Class-planned field trips.
- 3. Area and State student government conferences.
- 4. Class-planned and sponsored speech, art, drama, and music programs.

NOTE: To establish an official College-authorized absence, the professor must submit the students' names to the Student Life Office.

Auditing Courses

Students may not audit courses at Mt. San Antonio College. All students must be officially enrolled in a course in order to attend that course.

Dropping Courses and Withdrawing from the College

For 16-week classes, students who drop a class, withdraw from College, or are dropped from a class by the professor during the first three (3) weeks of a regular semester will receive no mark(s) or notation(s) on their permanent record.

Students who drop a class, withdraw from College, or are dropped by the professor between the first day of the fourth week and the last day of the tenth week of instruction during a regular semester will receive a mark of "W" withdrawal on their permanent record.

Professors may not drop students from class, and students may not drop class(es) or withdraw from College after the last day of the tenth week in a regular semester. All students enrolled after the tenth week shall receive an academic grade (A, B, C, D, F, CR, NC) or an incomplete mark for the course. In short-term courses, students who withdraw or are dropped from class during the first 20% of the course will receive no notation on their permanent record. Students may drop short-term courses only through 61% of the course.

A "W" withdrawal mark shall not be assigned to any student enrolled after the last day to drop except in the case of an approved petition because of extenuating circumstances. A "W" withdrawal remains a permanent part of a student's academic record.

Student Unit Limits

Without petitioning, students may enroll in up to 18 units each semester and up to seven units each summer and winter session. Students who have completed a minimum of 15 college units in a given semester with a grade point average of at least 3.0 and have a minimum cumulative grade point average of at least 3.0 may petition for permission to enroll in units above the maximum.

Students may be required to see a counselor as part of the petition process. Petitions are available in the Counseling Office, located on the upper level of the Student Services Center.

Repeatable Courses

Certain courses may be taken more than once for credit. If the course is designated as repeatable, the course may be repeated only for the number of times allowable. To determine whether a course is repeatable, refer to Section 10, Course Descriptions, in this *Catalog*.

Repeating Courses Previously Passed

State Regulations do not allow students to repeat non-repeatable courses previously passed with satisfactory grades of "A," "B," "C," or "Credit." Students with extenuating circumstances may file a Petition for Exceptional Action in the Admissions Office. Students who are allowed to repeat courses based on this provision <u>will not earn additional units</u> or grade points toward improving or changing the previous grade earned in the class or toward changing the overall grade point average.

Petitions for Exceptional Action

Student *Petitions for Exceptional Action* forms are available from the Counseling Office and Admissions and Records Office in the Student Services Center. Students may complete these forms and submit them to Admissions and Records. Subsequent action on a petition will be taken either by the appropriate administrator or the Board of Appeals.

Limitations on Repeating Courses

Beginning with the Fall 1998 semester, students who have recorded either a substandard grade of either "D," "F" or "No Credit," will only be allowed to repeat the same course one time. On repetition, the second or latest grade will count toward the grade point average and the previous grade will be discounted or "forgiven." The student's permanent academic record will be annotated such that all course work that has been taken and forgiven or repeated will remain legible, insuring a true and complete academic history. Unit credit is only allowed once when repeating a D grade.

Students shall be allowed a maximum of two withdrawals for a given course where a mark of "W" is posted for both withdrawals. To re-enroll in the course, students must submit a Petition to Re-enroll in a Course after Withdrawal. The petitions are available in department offices and division offices. Students who petition and are approved will have one additional opportunity to re-enroll and successfully complete the course.

Students who believe they have exceptional circumstances can seek a waiver to repeat a class an additional time through the division or department office pertaining to the specific course. Participation in an intervention program may be required.

CREDITS AND GRADES

Definition of a Unit of Credit

The standard "unit" represents one hour in class recitation and two hours of outside preparation per week or its equivalent for one semester. By this definition, "unit" is synonymous with "semester lecture hour." In laboratory work and certain activity courses such as physical education, choir, drafting, etc., a greater number of in class hours per week is required for each unit of credit. In summer sessions, one unit of credit represents three hours of lecture per week.

Classification of Students

Students at Mt. San Antonio College are classified as follows:

- **Full-time** enrolled in 12 or more units in a fall or spring semester, or four or more units during a six-week summer or winter session.
- **Part-time** enrolled in less than 12 units during the fall or spring semester or less than 4 units during a six-week session or less than nine units during a nine-week summer or winter session.
- Freshman a student who has completed less than 30 units of credit.
- **Sophomore** a student who has completed 30 units of credit or more.

Grading System

Scholastic grades showing the academic achievement of students are issued at the end of each semester. Any student enrolled as of the first day of the fourth week in a full semester course for any semester shall receive one of the marks listed below on his/her permanent records.

Academic Policies and Requirements

	GRADING SCALE	
Evaluative Symbol	Definition	Grade Point Value
A	Excellent	4
В	Good	3
C	Satisfactory	2
D	Passing (less than satisfactory)	1
F	Failing	0
CR	Credit (at least equivalent to a "C" grade. Units awarded are not counted in determining the stude grade point average).	nt's
NC	No-Credit (Equivalent to a "D" or "F" grade. No units awarded,and units are not counted in determining grade point average. No-Credit grades will be considered in probation and dismissal procedures.)	

Incomplete

A student may file a petition for an incomplete or the instructor may initiate the petition on behalf of the student who is currently passing the class under the following circumstances: verifiable illness or emergency or verifiable work conflict. Incompletes may only be issued for requirements missed commencing the fourteenth (14) week of a regular semester class or after 85% of a short-term or summer session or winter intersession class. Re-enrollment in the same course for purposes of making up the incomplete is prohibited. The petition is subject to the approval of the instructor. If the petition is granted, the student must complete all outstanding course requirements (stipulated on the Petition to Request Incomplete form) within one year, or the incomplete will be come a letter grade assigned by the instructor.

IP — **In Progress:** The "IP" symbol shall be used to denote that the class extends beyond the normal end of an academic term. It indicates that work is "in progress," but that assignment of a substantive grade must await its completion. The "IP" symbol shall remain on the student's permanent record in order to satisfy enrollment documentation. The appropriate evaluative grade and unit credit shall be assigned and appear on the student's record for the term in which the course is completed.

RD — **Report Delayed:** The "RD" symbol may be assigned only by the Admissions and Records Office. It is to be used when there is a delay in reporting the grade of a student due to circumstances beyond the control of the student. It is a temporary notation to be replaced by a permanent symbol as soon as possible. "RD" shall not be used in calculating grade point averages.

W — Withdrawal: Withdrawal from a class or classes shall be authorized through the last day of the 10th week of instruction of a regular semester-length class. No notation ("W" or other) shall be made on the academic record of the student who withdraws during the first three weeks of a regular semester-length class. Withdrawal between the first day of the 4th week and the last day of the 10th week of instruction shall be recorded as a "W" on the student's record. The "W" shall not be used in calculating grade point averages, but excessive "W's" shall be used as factors in probation and dismissal procedures. Withdrawal from short term classes of less than semester length, but greater than six weeks, is authorized for a period of time through 61% of the course, and a mark of "W" shall be made on the student's academic record. Students are allowed no more than two "W" grades in a class. After earning two "W" grades in a class, to repeat a class, the student must petition using the process described under "Limitations on Repeating Courses." No notation shall be made on the academic record of a student who withdraws from a short term class of less than semester length, but greater than six weeks, provided the student withdraws no later than the end of the first 30% of the course.

MW — **Military Withdrawal:** The "MW," military withdrawal, mark shall be assigned only for students who are members of an active or reserve military unit, and who receive orders compelling a withdrawal from courses. Upon verification of such order, this symbol may be assigned at any time after the period established by the governing board during which no notation is made for withdrawals. The "MW" shall not be counted in determining registration priority, progress probation, and dismissal calculations. "In order to retain catalog rights, a student must re-apply for admission within one semester of completion of active duty." A "W" previously incurred commencing January 1, 1990, and which meets the definition of "MW" may be changed to "MW."

Final Examinations

A final examination shall be administered in all classes in compliance with the Final Exam Schedule prepared each semester by the Admission and Records office. If a student is unable to attend a scheduled final examination, he/she must contact his/her instructor to make other arrangements. A student who does not take a final examination and who does not qualify for an "Incomplete" (see Grading-Incomplete), shall be assigned the grade "F" or "Zero" for the examination, and this grade shall be averaged in determining the final course grade. When a grade of "Incomplete" has been given, a copy of the final examination must be filed in the appropriate division office at the close of the semester.

Early Examinations

If a student must leave school prior to the scheduled final examinations week, he/she may take early examinations with the approval of his/her instructor. In no case may a student be released earlier than two weeks before the scheduled date of his/her final examination.

Credit/No Credit Grades

Some courses offered at Mt. San Antonio College are available to students on two different grading options: letter grade (A, B, C, D, F) or Credit/No Credit (CR = A, B, or C; NC = D, F). A few classes are offered for Credit/No Credit only. These courses are designed to encourage students to explore areas outside their major field of study in order to broaden and enrich their collegiate experience, and to afford an opportunity for departments to offer courses in which there is diminished emphasis on grades. The Credit/No Credit grading option is no longer available for General Education courses.

In courses offering the grading option, students are automatically registered on a letter grade basis at the time of registration. <u>If a change is desired</u>, the student must declare his/her intent to be graded on a <u>Credit/No Credit basis at the Admissions and Records Office no later</u> than the last day of the fourth week of instruction in a full semester <u>class</u>. The grading option may not be changed at a later date. <u>Students enrolled in short-term courses of less than semester length, but greater</u> than six weeks, must determine their grading option no later than the end of the first 30% of the course or 30% of the required hours of instruction listed in the description for an open-entry/open-exit course. In any short-term course of less than six weeks, students must determine their grading option.

Credit toward graduation by using Credit/No Credit classes is limited to a maximum of 16 units. Courses taken for Credit/No Credit are not counted in calculating grade point average, nor in determining eligibility for the Dean's List, but such courses are considered in probation and dismissal procedures.

Students are cautioned that upon transfer to baccalaureate institutions, "NC" grades typically are considered to be "F" grades.

Credit by Examination

The general philosophy of Mt. San Antonio College is that the interaction which takes place between the student and professor is of critical importance to the learning process. However, quality instruction places a premium on meeting individual student needs. Therefore, Mt. San Antonio College provides for Credit by Examination enabling the student to accelerate his/her educational program by providing opportunity to obtain credit in those fields in which he/she has already achieved proficiency independently or by informal means.

Pursuant to Section 55753 of Title 5 of the California Administrative Code, students at Mt. San Antonio College may apply for Credit by Examination and such unit credit may be granted subject to the following rules and regulations:

Rules and Regulations

- 1. Credit by Examination will be granted only for those courses which have been so designated by the departments.
- 2. Any grade received for Credit by Examination will be entered on the student's permanent record with a notation of "Credit by Comprehensive Exam."
- 3. A student may petition for Credit by Examination provided:
 - a. The student has been registered at Mt. San Antonio College.
 - b. The student has not already received credit nor is currently enrolled beyond six weeks in the same course or in a more advanced course (except for Advanced Placement Course Credit).
 - c. The student has at least a 2.0 grade point average. This includes transfer/new students.
- 4. The student may obtain the petition for Credit by Examination from the Division Office.
- 5. The department will establish written guidelines by which the eligibility of a student to take such an examination is determined.
- 6. The Department will assign a grade depending on the results of the examination and submit the form "Petition for Credit by Examination" to Admissions and Records.
- 7. The student may not use Credit by Examination to satisfy the residency requirement for the degree.

A list of courses for Credit by Examination is available at each Division Office, the Instruction Office, the Counseling Department, or the Advising Center.

Advanced Placement Examinations in CSU General Education – Breadth Certification

Advanced Placement examinations may be incorporated into certification of completion of CSU General Education–Breadth requirements by any participating institution. Students must have scored 3, 4, or 5 on an Advanced Placement examination listed below to receive the credit indicated. All CSU campuses will accept the minimum units shown below toward fulfillment of the designated General Education–Breadth area if the examination is included in a full or subject-area certification; individual CSU campuses may choose to accept more units than those specified below towards completion of General Education–Breadth requirements. The CSU campus to which the student is transferring determines the total number of units awarded

ADVANCED PLACEMENT EXAMINATIONS FOR CSU GENERAL EDUCATION — BREADTH REQUIREMENTS

Number of Units Applicable to General Education-Breadth Requirements for Students Obtaining Full or Subject-Area Certification

	Students obtaining run of Subject-Area Certification
	6 semester units toward Areas B1 and B3
	3 semester units toward Area D2
Economics: Microeconomics	
English: English Language & Composition	
English: English Literature & Composition	
French: French Language	
French: French Literature	6 semester units toward Area C2
German Language	6 semester units toward Area C2
Government and Politics: United States	
Government and Politics: Comparative	
History: European History	
History: United States History	3 semester units toward Area D6
Latin: Vergil	
Latin: Latin Literature	
Mathematics: Calculus AB	
Mathematics: Calculus BC	
Music Theory	
Physics B	
Physics C (mechanics)	
Physics C (electricity and magnetism)	
Psychology	
Spanish: Spanish Language	6 semester units toward Area C2
	6 semester units toward Area C2
Statistics	

for successful completion of an Advanced Placement examination and the applicability of the examination to other graduation requirements. See the table above for specific AP Subjects.

International Baccalaureate Credit for Mt. SAC General Education Requirements for the Associate Degree

AP Subject

Students completing all or portions of the International Baccalaureate (IB) program at their high school may petition to utilize the results of their IB examinations to meet Mt SAC general education requirements in the areas identified below. Only IB certificate examinations with scores of 5, 6 or 7 on will be honored.

Students who have both a qualifying Advanced Placement (AP) test score (3 or above) and a qualifying IB certificate exam score (5 or above) in the same examination area, or who have completed a college level course for credit, will only have the first completion counted for credit.

Both UC and CSU stipulate that IB students who complete an IB diploma are eligible to receive 30 units of credit towards graduation. These are unspecified units (electives) and do not meet specific general education requirements at the university. Mt. SAC will not honor such requests by diploma students. Only individual IB exams will be eligible to receive academic credit.

Credit for Extra Institutional Learning Philosophical Basis

This policy of granting credit for extra-institutional learning is provided for students under special conditions in recognition of learning that has been attained outside the sponsorship of legally authorized and accredited post-secondary institutions.

IB Examination	Number of Units Awarded to Mt. SAC General Education
Biology	5 semester units toward Area B2
Business Management	NA
Chemistry	5 semester units toward Area B1
	5 semester units toward Area C2
	NA
Dance	
Design Technology	NA
	5 semester units toward Area D2
Film	5 semester units toward Area C2
Geography	
History	
Language A1	
English	5 semester units toward Area A1
	5 semester units toward Area C2
Language A2/B	
Mathematics	5 semester units toward Math Proficiency
Music	
Philosophy	5 semester units toward Area C2
	5 semester units toward Area D2
Theatre Arts	5 semester units toward Area C1
Visual Arts	

General Policy Statement

Credit for extra-institutional learning will be awarded to those students who have attained competency of subject matter through experiences outside of the sponsorship of legally authorized and accredited post-secondary institutions.

The College will accept the recommendations of the American Council on Education in reference to the guide to the Evaluation of Educational Experience Experiences in the Armed Forces and the National Guide to Credit Recommendation for Non-collegiate courses; the College Entrance Examination board in reference to its recommendation of Advanced Placement Examinations, and credit recommendations from other similar nationally recognized academic institutions, including Mt. San Antonio College's policy for comprehensive examinations.

Policy Regulations

 Of the 60 units required for the Associate Degree, at least twentyfour (24) units must be earned in courses that contribute to the grade point average.

- Extra-institutional learning credit will normally not be evaluated unless the credit is necessary for graduation.
- Credit for non-collegiate courses will be awarded only for work applicable toward the Associate Degree. Credit may be granted for upper division courses provided the student has earned less than 60 units at the time the upper division work is attempted.
- To petition for extra-institutional learning credit, a student must have at least a 2.0 grade point average, not be on probation, and be in good standing.
- The permanent academic record shall be annotated in such a manner to insure that a true and complete history of extrainstitutional learning credit has been granted.

Credit for Military Training

Mt. San Antonio College will grant four units of Baccalaureate level elective credits for military experience without regard to the field of service. Additional credit may be allowed for specific programs of training and credits earned through the United States Armed Forces Institute. The College will follow the recommendations made by the American Council on Education.

HONORS

Academic Honors

President's List

The President's List is an honors list comprised of those students who have achieved a 3.50 or better grade point average in a minimum of twelve (12) letter-graded Associate Degree applicable units per semester.

Dean's List

The Dean's List is an honors list comprised of those students who have achieved between a 3.0 to 3.49 grade point average in a minimum of twelve (12) letter-graded Associate Degree applicable units per semester.

Graduation Honors

Graduation honors are awarded as follows:

Academic Distinction

The "Academic Distinction Honor" designation is placed on the transcript and degree of the graduate who has achieved an overall grade point average (GPA) of 4.00.

Scholastic Honor

The "Scholastic Honor" designation is placed on the transcript of the graduate who has achieved an overall grade point average (GPA) of 3.90 through 3.99.

With Honors

The "With Honors" designation is placed on the transcripts and degree of the graduate who has achieved an overall grade point average (GPA) of 3.75 through 3.89.

Honors Program

Mt. San Antonio College offers an Honors Program for students who have demonstrated academic excellence. Honors courses are specially designed sections of transferable general education courses and, with a few exceptions, are part of the IGETC requirement list.

Completion of the Honors Program makes a student eligible for guaranteed priority admission to the following universities: UCLA, UC Irvine, UC Riverside, UC Santa Cruz, Chapman University, Pepperdine University, Pitzer College, Pomona College, and Occidental College. In addition to an enhanced curriculum for motivated students, Honors Program students receive library privileges at UC Irvine, UCLA, and UC Riverside; and an Honors Certificate and pin upon honors certification.

Entrance Requirements

- High School Students Eligibility for ENGL 1A; 1,000 composite SAT2 score; 3.5 GPA
- Mt. San Antonio College Students Nine transferable units; Eligibility for ENGL 1A; 3.5 GPA (*Waivers can be obtained through the Honors Program Office for highly motivated students with a competitive GPA and an in-progress grade report and professor recommendation.*)

Requirements for "Honors Scholar" Designation

- Complete six [6] honors courses (18 units) with a minimum 3.2 GPA for honors certification
- Maintain a 3.2 GPA

For additional information about Mt. SAC's Honors Program, contact the Dean of Instruction at Ext. 5463 or the Honors Program Office at Ext. 4665.

Alpha Gamma Sigma

Mt. San Antonio College sponsors the Zeta Chapter of Alpha Gamma Sigma, the statewide scholastic honorary organization for California Community Colleges. There are three categories of membership eligibility. Only degree appropriate courses/units (those that grant credit for an Associate or Bachelor's degree) may be used to establish eligibility for membership (Exception: Temporary Membership).

- 1. **Temporary:** (First college semester only) Must hold a California Scholastic Federation (CSF) Life Membership OR be a high school graduate with a cumulative grade point average of 3.5 or higher. This membership is intended as an introduction to Alpha Gamma Sigma and is not to be considered as an initial membership.
- 2. **Initial:** (First time membership) Must have completed 12 degreeappropriate units in a maximum of three (3) semesters with a degree appropriate cumulative grade point average of 3.0 or higher.
- Continuing: (Previous membership) Must have achieved for the previous semester a degree appropriate grade point average of 3.0 or higher OR have maintained a degree appropriate cumulative grade point average of 3.0 or higher.

Part-time students are eligible for membership. Membership requires campus and community involvement (service hours).

Applications are available in Student Life, Building 9C-1. For further information and review of academic eligibility, students should consult an Alpha Gamma Sigma Officer or an Alpha Gamma Sigma Advisor. Scholarships provided by Zeta Chapter and the State Alpha Gamma Sigma Organization are available to actively involved members. Some baccalaureate granting institutions provide scholarship assistance which is limited to Alpha Gamma Sigma members. For details, consult with an Alpha Gamma Sigma Advisor.

Permanent membership in Alpha Gamma Sigma is an honorary lifetime AGS title for students who have completed 60 degree appropriate units; a minimum of 30 of the total 60 units must have been completed at Mt. SAC. A permanent membership application must be submitted by the graduation petition deadline. To apply students must: a) have a cumulative G.P.A of 3.25 or higher for 60 completed degree appropriate units and, b) complete a minimum of two semesters as an active or inactive member. Only permanent members receive recognition at graduation.

Phi Theta Kappa

Mt. SAC sponsors the Alpha Omega Alpha Chapter of Phi Theta Kappa, an international scholastic honorary organization for America's two-year colleges, including Canada, Germany, Puerto Rico, Panama and American Samoa. Eligibility for membership is established for the following:

- 1. Full and part-time students who have completed 12 appropriate degree units with a 3.5 grade point average at an accredited institution.
- 2. Students who have maintained a 3.5 grade point average while a member.

For further information and review of academic eligibility, students should consult a Counselor or a Phi Theta Kappa advisor. Currently, some 70 U.S. colleges and universities offer scholarships to members. There are several advantages which accompany this honor, including recognition at graduation. Applications are available at the Honors Program office in 26A-102.

ACADEMIC STANDARDS

Probation and Dismissal

There are two forms of probation: Academic Probation and Progress Probation.

Academic Probation

A student is placed on Academic Probation when the student, while enrolled at Mt. San Antonio College has:

- 1. attempted at least 12 units, and
- 2. earned a cumulative grade point average below 2.00.

A student will be cleared from Academic Probation when the student's cumulative grade point average at Mt. San Antonio College is 2.00 or higher.

Progress Probation

A student is placed on Progress Probation when the student, while enrolled at Mt. San Antonio College has:

- 1. Enrolled in a total of at least 12 units, and
- cumulatively received more units of "withdrawal" ("W"), "incomplete" ("I"), and "no credit" ("NC") than the number of units of "A,""B,""C,""D," or "CR" and
- 3. earned more units of withdrawal ("W"), "incomplete" ("I") and "no credit" ("NC") in the most recent regular semester of enrollment than the number of units of "A, ""B, ""C, ""D," or "CR" in that same semester.

Four Levels of Probation

Probation Level 1 (L1) occurs at the end of the first semester after the student has attempted 12 units and has earned a cumulative grade point average below 2.0, or has received more than 50% of his or her grades as W, INC, or NC grade indicators. Level 1 students will be limited to enroll in a maximum of 12 units while at Level 1 probation status and are encouraged to see a counselor.

Probation Level 2 (L2) occurs when the student has completed a second semester of Academic or Progress Probation. Student will be required to participate in a prescribed counseling intervention in order to be eligible to register for the following semester. Students will be limited to a maximum of 7 units while at Level 2 status.

Probation Level 3 (L3) (Dismissal) occurs when the student has been placed on Academic or Progress Probation for any three semesters of enrollment and is thereby dismissed from the college for at least one regular semester. If the student has enrolled in the subsequent semester before the Probation 3 status has been determined through the posting of the previous semester's grades, the student will be dropped from all courses.

Probation Level 4 (L4) (Subsequent Dismissal) occurs when a student has been reinstated after having been dismissed and fails to meet the conditions of reinstatement. Level 4 students will not be allowed to enroll in courses for at least two continuous years (four regular semesters). If the student has been determined to be at this probation level through the posting of the previous semester's grades, the student will be dropped from all courses.

Clearing Probation

- 1. Academic Probation When the student's cumulative grade point average at Mt. San Antonio College is 2.00 or higher, the student shall be cleared from Academic Probation.
- 2. **Progress Probation** A student will be cleared from Progress Probation when the student's cumulative number of units of "A,""B," "C,""D," or "CR" reaches or exceeds the cumulative number of units of "W,""I," and "NC."

Reinstatement After Dismissal

1. **Probation Level 3** (*Dismissal*) — a dismissed student may apply for reinstatement after an interval of one regular semester of absence from Mt. San Antonio College. The student must meet with a counselor to be reinstated and to determine the number of units in which the student will be permitted to enroll.

Academic Policies and Requirements

 Probation Level 4 (Subsequent Dismissal) — a subsequently dismissed student may apply for reinstatement after an absence from Mt. San Antonio College of two years or four regular semesters. Petitions shall be submitted to a counselor with verification of remedial work, or evidence of readiness to do successful college work. The counselor determines the number of units in which the student may enroll.

A reinstated student (from Probation 3 or Probation 4) must earn a semester grade point average of at least 2.00 and complete at least one-half of all units attempted in each semester after reinstatement at Mt. San Antonio College. The reinstated student remains on a probationary, reinstated status until the student has achieved a cumulative grade point average of at least 2.00 and has earned at least as many cumulative units of "A," "B, ""C," D," or "CR" as units of "W,""I," or "NC."

Appeals Process

Students with unique and extenuating circumstances which they believe warrant an exception to Mt. San Antonio College regulations and policies may file a Petition for Exceptional Action. Petitions are available in the offices of Admissions and Records, Counseling, Student Life, and Vice President of Student Services.

Students who have clearly documented extenuating circumstances may appeal decisions made at the department level by requesting a review by the College's Board of Appeals.

RECORDS

Definition of Educational Records

Educational records consist of those files maintained by the following offices: Admissions and Records, Counseling, Assessment, Financial Aid, and those files maintained for individual students by departments.

Academic Renewal

The Academic Renewal Policy is provided for students in specific circumstances where previously recorded, substandard academic performance is not reflective of the student's present demonstrated ability. Academic renewal applies only to substandard coursework completed at Mt. SAC. Students with substandard coursework at other colleges/universities need to contact those institutions to see if they are eligible for academic renewal under the provisions of academic renewal of said institution.

- A. A maximum of twenty-four units may be alleviated.
- B. Since completion of the work to be disregarded, the student's cumulative grade point average for all units completed at the time of adjustment must be at least 3.0 for 18 semester units, 2.5 for 24 semester units, or 2.0 for 30 units. The cumulative grade point average may include course- work completed at Mt. San Antonio College and/or other accredited colleges or universities. Courses used to qualify for Academic Renewal which were completed at another college or university must be verified by official college transcripts.
- C. A time period of at least two years must have elapsed since the end of the term of substandard work to be disregarded.
- D. Academic renewal will apply only to substandard grades: D, F, and NC.
- E. The permanent academic record shall be annotated in such a manner that all work remains legible, insuring a true and complete academic history.
- F. Mt. San Antonio College does not guarantee that academic renewal will be honored by institutions outside of the District. This determination will be made by the transfer institution.
- G. Students requesting academic renewal must file a petition in the Admissions and Records Office. Students should consult with a counselor prior to filing this petition.

Transcripts

Official transcripts of work completed at Mt. San Antonio College may be obtained by submitting a written request to Admissions and Records located on the lower level of the Student Services Center. The first two requests for transcripts are free, subsequent requests are \$2.00 each. Free unofficial/ student copies of transcripts may be obtained from campus kiosks or from the Advising Center located on the upper level of the Student Services Center.

Challenge of Educational Records

- Any student may file a written request with the Records Officer of the District (Dean, Enrollment Management) to remove information recorded in the student's records which is alleged to be: 1) inaccurate; 2) an unsubstantiated personal conclusion or inference; 3) a conclusion or inference outside of the observer's area of competence; or 4) not based on the personal observation of the named person with the time and place of the observation noted.
- If the student is not satisfied with the determination made by the Dean, Enrollment Management, the student may, within thirty (30) days, appeal the decision to the Board of Trustees.
- Grades assigned by an instructor to indicate the student's performance in a course are not in contest, unless they were assigned by mistake, fraud, bad faith, or incompetency. (Education Code 76224)

Student Services and Student Life

Section 4

STUDENT SERVICES

Mt. San Antonio College provides a wide range of support services which are essential for success to assist a diverse student population in achieving their educational, career, personal and social goals.

Admissions and Records Student Services Center, Ext. 4415

Admissions and Records, located on the lower level of the Student Services Center, provides a variety of services to students. It is usually the first office prospective students visit, and the last office students visit before transferring or graduating. The following are some of the services provided:

- All students must submit an application for admission in order to attend Mt. San Antonio College. The admissions application generates a Permit to Register and establishes a historical student record for each student. Also, transcripts from high school and other colleges must be submitted for prerequisite eligibility checks.
- 2. All registration is done online via the web at *my.mtsac.edu* or by telephone at (909) 595-MSAC. Registration instructions can be found in the latest *Schedule of Classes* or online at *my.mtsac.edu*.
- 3. Other services provided by Admissions and Records include maintaining student demographic information such as name, address and Mt. SAC student identification numbers, maintaining student academic history, issuing I-20's for International Students, processing Petitions for Exceptional Action, processing transcript and enrollment verification requests, processing graduation and certificate petitions and distributing diplomas and certificates. Admissions and Records is the official custodian of student records and maintains all permanent roll sheets and grade books received from faculty.
- 4. The Admissions and Records Office also provides the Student Services Kiosks located in the Student Services Building. These kiosks provide unofficial transcripts, final grades, and copies of the Permit to Register. All services available at the kiosk are also available at my.mtsac.edu. To use this service, students must have their Mt. SAC Student Identification number and Personal Identification Number (PIN).

Advising Center Student Services, Ext. 4293

The Advising Center offers a variety of transfer support services including:

- a library of college and university catalogs
- opportunities to meet with university representatives
- a complimentary copy of student transcripts

- computerized course articulation
- scholarship and career information

Students can schedule campus tours or request information on any of Mt. San Antonio College's programs and services. Educational advisors are also available to provide guidance information on transfer preparation, certificate programs, graduation requirements and College policies and regulations.

Assessment Center Student Services Center, Ext. 4265

The Assessment Center administers the College's placement and career assessment program. Services offered are as follows:

- 1. Placement testing (English, Math, and Reading) measures students' readiness for appropriate course placement.
- 2. Career Assessments measure student interests, abilities, work values, and experience to help students with career planning.

To make an appointment for testing or for further information, call or visit the Assessment Center, located on the lower level of the Student Services Center.

The Bridge Program, Ext. 5392

The Bridge program is a learning community designed to increase students' academic and personal success through the structuring of a personalized learning environment.

Admission to the program is based on academic need. Students participating in Bridge are enrolled in linked classes that are taught in a cooperative environment between instructors. In this group setting students have an opportunity to learn about being successful college students and how to utilize college services. In addition, students are supported by Bridge Program staff and counselors, financial aid advisors, as well as by transfer and advising specialists.

The Bridge Program is the right choice for students who find themselves undecided on career choices, who have apprehensions about the transition to college, and who would like to make new friends. Bridge students share particular educational goals, common interests, and similar backgrounds.

As part of the Bridge Program, students can choose to be part of the Summer Bridge, English Bridge, Math Bridge, and/or the Pre-Nursing/Health Bridge.

Bursar's Office and Photo ID, Ext. 4960

The Bursar's Office, located in Building 9A, is responsible for the collection of credit registration fees and other campus fees including parking permits, transcripts, enrollment verification and production cards. The office also processes photo ID cards and refunds for credit classes.

CalWORKs (California Work Opportunities and Responsibility to Kids), Ext. 4755

(See Extended Opportunity Programs and Services – EOPS)

Counseling Center Student Services Center, Ext. 4380

The Counseling Center provides students with the educational, vocational and personal support needed to complete their educational goal. It is staffed by professional counselors who assist students with issues that might affect their education progress. Services offered include:

- career counseling and decision making
- career and personality testing and interpretation
- major selection and counseling to prepare for transfer to a four-year institution
- orientation of new students to the college
- evaluating academic skills and college preparedness, especially for those students experiencing academic difficulties
- counseling for personal issues and concerns

New students are required to participate in an orientation session with counselors. Students with associate degrees or higher are exempt. Undecided and new students are encouraged to enroll in Counseling classes during their first year of enrollment at the college.

Career Placement Services Student Services Center, Ext. 4510

The Career Placement department helps students and graduates to secure part-time and full-time employment in order to help them continue to attend college, or to enter into a career field related to their A.S. Degree or career certificate.

Services include:

- Job referrals to employment opportunities in the community
- Internship opportunities
- Assistance with resumes and interviewing skills
- Employment acquisition skills workshops
- Job search library and printed handouts
- Job fairs and on-campus recruiting
- Internet access to recruiting sites and job boards on the web

While Mt SAC graduates may return to the Career Placement Office for employment assistance, current students are strongly encouraged to visit Career Placement Services while they are still attending.

Student Services and Student Life

Disabled Student Programs & Services (DSP&S), Student Services Center, Ext. 4290

If students have a disability which limits their ability to participate fully and equally in any College instructional program and/or activity, they are encouraged to visit Disabled Student Programs and Services. A professional will meet with them to determine the extent of their limitations and the special services and accommodations that may be provided for their needs.

To take advantage of the wide array of special programs and services we offer, written documentation of disability must be provided by a physician or appropriate professional; the disability must present a limitation to a successful education; the ability to benefit from instruction must be demonstrated; and self-management skills (*mobility, eating and using restrooms without assistance*) must be adequate, unless an attendant is utilized. We do not provide attendant service.

If students have a doctor's verification that requires them to park in zones designated as "handicapped parking," they are required to apply for a state "Disabled Person" permit and placard from the Department of Motor Vehicles, if they don't already have one.

If students have a current "Disabled Person" permit and placard or a "DP" license plate from the State of California Department of Motor Vehicles, they are not required to purchase a student parking permit. They are allowed to park in any parking space designated as "handicapped parking," any metered space (*at no cost*), or any timelimited space (*without having to observe the time limit specified*). Students must ensure that the placard or license plate is displayed properly. DSP&S highly recommends that students visit our department to determine if there are any other services that may provide assistance while they attend Mt. San Antonio College.

Programs and services are provided for students with various disabilities. There are eligibility requirements for some of the programs offered. We invite and encourage all students to visit Disabled Student Programs and Services, located on the lower level of the Student Services Center.

CARE (Cooperative Agencies Resources for Education), Ext. 4392

(See Extended Opportunity Programs and Services – EOPS)

Extended Opportunity Programs and Services (EOPS), Student Services Center, Ext. 4500

Extended Opportunity Programs and Services (EOPS), located on the lower level of the Student Services Center, provides access to higher education for students with academic and financial disadvantages and the office of EOPS assists students seeking Re-Entry services as well as those who qualify for CARE. Some of the services offered are:

- Counseling
- Educational Planning
- Peer Advising
- Instructional Development and Services
- Tutoring
- Book Service Program
- Financial Assistance

To be eligible for the EOPS program, a student must:

- Be a California resident
- Be enrolled as a full-time student (12 units or more)
- Have fewer than 70 degree applicable units
- Qualify to receive a Board of Governors Enrollment Fee Waiver under Method A or B
- Be educationally disadvantaged

CARE (*Cooperative Agencies Resources for Education*) is a support program for EOPS students who are single head of household parents receiving CalWORKs — and provides additional assistance to students who are:

- Eligible for EOPS
- Enrolled in at least 12 units upon acceptance
- Currently receiving AFDC/TANF assistance, with at least one child under 14 years of age
- At least 18 years old, single head of household
- Have applied for financial aid and have a need for child care, transportation, books and supplies, and/or counseling to attend college
- Pursuing a program at Mt. SAC which will lead to a certificate, degree or transfer

Students who believe they qualify for the program should visit the EOPS Office.

Financial Aid Student Services Center, Ext. 4450

Financial aid is intended to help students who might not otherwise be able to attend college. Although the primary responsibility for meeting college costs rests with the student and his or her family, it is recognized that many families have limited resources and are unable to meet the cost of a college education. Financial aid programs have been established to provide assistance for students with documented financial need.

The College provides financial assistance in the form of grants, loans, scholarships, and part-time employment for students who meet financial aid program eligibility requirements. Student financial aid awards are contingent upon continued funding from Federal and State government agencies.

All students may be eligible for some form of assistance based on their financial need. The Financial Aid Office, located on the upper level of the Student Services Center building, administers aid programs for eligible applicants. Eligibility criteria for financial aid programs are subject to frequent change. Current information as well as application forms are available in the Financial Aid Office.

Financial Aid seminars are available to assist students with information about the application process. Contact the Financial Aid Office for information on scheduled seminars.

Recipients of aid from Federal and State funded programs must be students enrolled in eligible programs of study for the purpose of obtaining a degree, an approved Title IV certificate, or transfer. In addition to financial need, other eligibility requirements for most Federal and State programs include:

- 1. Having a high school diploma, a GED, or passing the Ability to Benefit test that has been approved by the Department of Education and is administered at the Assessment Center in the Student Services Center.
- 2. Being a U.S. Citizen or eligible non-citizen.
- 3. Maintaining satisfactory progress in accordance with the standards.
- 4. Not be in default on a federal loan or grant overpayment.
- 5. Be registered with the selective service, if required.
- 6. Have a valid social security number.

To be considered for financial aid, students must complete the Free Application for Federal Student Aid (FAFSA) or the renewal application. These applications are usually available beginning in January for the following academic year. If a student is interested in a State of California Grant, the FAFSA and a GPA verification form must be completed. The Cal Grant program deadline is March 2nd of each year. For students who miss this deadline, there is a second opportunity only for community college students to apply for Cal Grants. The deadline for this is September 2nd. Additional information and eligibility requirements are available at the Financial Aid Office.

Student Services and Student Life

The FAFSA is the application for the following Federal and State programs:

- Federal Perkins Loans
- Board of Governors Fee Waiver
- Federal Pell Grant
- Federal Supplemental Educational Opportunity Grant (FSEOG)
- Federal Work-Study Program (FWS)
- Need-based scholarships
- Federal Direct Loans (subsidized and unsubsidized)
- State CAL Grants
- Federal Family Education Loan (FFEL)

Students eligible for financial aid typically receive a "package" of aid from two or more of the financial aid programs.

Mt. SAC will determine the amount of federal financial aid that a student has earned in accordance with federal law. Recipients of federal programs are subject to the Return of Title IV funds requirements. Students who receive federal financial aid and do not attend any classes will be required to repay all of the funds they have received. Students who withdraw from all classes prior to completing more than 60% of the semester will have their financial aid eligibility recalculated based on the percentage of the semester completed, and will be required to repay any unearned financial aid they have received. At Mt. SAC a student's withdrawal date is:

- 1) the date the student officially notified the Admissions Office of his or her intent to withdraw, or
- 2) the midpoint of the semester for a student who leaves without notifying the college, or
- 3) the student's last date of attendance at a documented academicallyrelated activity, or
- 4) the date posted by the instructor indicating last day of attendance

The information reported on the FAFSA may be verified by the Financial Aid Office using a parent's and/or the student's Internal Revenue Services Forms 1040, 1040A, or 1040EZ. Students must be able to provide a copy of their Social Security card (*if requested*), Alien Registration card (*if applicable*), and a Photo ID for identification purposes.

In addition, the College participates in the California Community College Board of Governors Fee Waiver program. This program is available to qualified California residents. The enrollment fee is waived for eligible students. The student is responsible for paying the remainder of the fees assessed within seven business days of registration. There are three methods to qualify for a Board of Governors Fee Waiver: (1) Temporary Assistance for Needy Families (TANF), Supplemental Security Income (SSI), or General Relief recipient, or (2) Household size/family income, or (3) Financial need as determined by filing the Free Application for Federal Student Aid (FAFSA). Applications for this program are available in the Financial Aid office.

Information about the College Scholarship Program can be obtained in the Financial Aid Office.

Student Health Services (Building 67B) Student Services Center, Ext. 4400

Medical, personal counseling, nursing, and health education services are provided. Professional health services are provided primarily on an appointment basis. Additional services include laboratory tests, tuberculosis screening, limited prescription medications, immunizations, pregnancy testing, and referrals. First aid services are provided for all students, employees and guests of the College. Please call for an appointment.

International Student Programs Student Services Center, Ext. 4415

Mt. San Antonio College annually welcomes hundreds of international students on F-1 visas to pursue a higher education. International students must complete and submit additional application materials and pay non-resident fees to study at the College. Specialized counseling assistance is available. Staff in Admissions and Records are also available to assist international students.

First Year Experience, Ext. 5392

The First Year Experience program offers a unique combination of courses this fall to incoming students who aren't quite prepared for college-level math and English. First Year Experience students will receive:

- Instant enrollment in pre-college math and English classes.
 (Guaranteed enrollment granted on a first-come, first served basis.)
- Chance to earn up to 9 units of academic credit.
- Popular morning sessions.
- Easy-to-follow instruction by our superb faculty.
- Opportunity to work in teams to achieve their success.
- Expert counseling on what it takes to succeed in college and beyond.

In addition, the coursework is enriched with field trips and tutorial assistance to enhance the learning experience.

Re-Entry Services Student Services Center, Ext. 4392 (See Extended Opportunity Programs and Services – EOPS)

Veterans' Affairs Student Services Center, Ext. 4520

Veterans' Affairs, located on the upper level of the Student Services Center, provides programs for Veterans and dependents seeking educational and/or vocational training under Title 38, United States Code.

Veterans are urged to take advantage of the counseling service and educational programs offered by Mt. San Antonio College. The College cooperates with the Veterans' Administration and with the California State Bureau of Vocational Rehabilitation in helping veterans. Veterans and dependents are required to comply with Veteran Regulations Section 21.4135, 21.4235, and 21.4277, in regard to required attendance and progress that the student (*veteran or dependent*) must meet in order to receive educational benefits under Title 38, United States Code.

The Veterans' Administration requires all entering veterans to be formally evaluated for military experience to prevent future interruption of educational benefits. All prior transcripts (*College or Service*) must be received and evaluated by our Admissions and Records Office as soon as possible along with a complete and signed educational plan prior to the second semester. Students should visit the Counseling Center for assistance in completing their educational plan.

Satisfactory progress of veterans or eligible dependents is measured by the successful completion of the number of units enrolled. "W's," "NC," and "F" grades are considered punitive grades. "F" grades may cause an overpayment if the veteran does not take his/her final. Please refer to Mt. San Antonio College's Probation and Dismissal Policies in this *Catalog*.

A 2.0 GPA must be maintained in order to receive an Associate Degree. Should a veteran fail to make satisfactory progress for two semesters, benefits will be terminated. The veteran will be contacted and an appointment must be made with a counselor. Upon satisfactory completion of one semester of approved courses, benefits will be reinstated.

The veteran or dependent has the responsibility to adhere to these standards of attendance and progress and to notify the Veterans' Affairs Office of any change in status that would affect the collecting of veteran's benefits. Additions, drops, withdrawals, and last day of attendance <u>must be reported at once</u>.

The College maintains a Veterans Service Center to assist veterans and/or dependents in all matters pertaining to veteran's benefits. Veterans and/or eligible dependents must apply each semester for their Veterans Administration educational assistance allowance through the Veteran's Service Center. Special details such as application deadlines can be found in the most current *Schedule of Classes*.

The FAFSA is the application

Student Services and Student Life

Child Development Center Building 9E, Ext. 4920 Admission Policy

Early care and education services for children from birth through 5 are provided between the hours of 6:30 a.m. and 7:00 p.m., Monday through Thursday and 6:30 a.m. until 5 p.m. on Fridays for student/parent, staff, and community parents (*community children on a space available basis only*). The Child Development Center welcomes all children regardless of sex, ethnicity, religion, or physical handicap. A child must be in good health and parents must meet eligibility requirements. A student/parent must be enrolled in 6 or more units of credit coursework in order to be accepted into the program. Day time students have priority.

State Preschool Program Half and Full Day

A State Preschool Program is available for low-income eligible student/ parents of 3- and 4-year-old children (*4-year-old children have priority*). There may be a minimum daily fee for this program.

General Childcare Funding

This program is available on a limited basis for low-income eligible student/parents. There may be a <u>minimum daily fee</u> for this program depending on the family's gross monthly income.

Community College CalWORKs Funding

This program is available for families who receive TANF (cash aid) benefits.

Child Care Access Grant Funding

Parents who receive or are eligible for a Pell grant may qualify for the program.

Fee Program

Children not qualified or accepted for State Preschool or General Child Care Funding may enroll in the Fee-based program. The fee schedule is available by contacting the Child Development Center.

Enrollment

Formal application must be made in person at the Child Development Center, Building 9E, located North of the campus bookstore (SacBookRac). Final acceptance into the program will be determined when eligibility has been decided, all paperwork has been completed, and all required fees are paid. State Law requires that an oral interview/orientation be completed.

For information concerning registration dates and times, those interested should consult the latest Mt. San Antonio College *Schedule of Classes* or contact the Child Development Center at Ext. 4920.

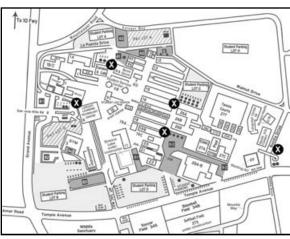
Security Escort Service, Ext. 4233

Mt. San Antonio College offers a security escort service from 6:30 p.m. to 10:10 p.m. Monday through Thursday. Students can request an escort by calling Ext. 4233. Please refer to the Escort map below to identify

the locations. Escorts can be identified by their yellow jackets and ID badges. Escorts are employed under the jurisdiction of the Public Safety Department.

Escort Location Map

Campus escort locations are indicated on the map below with a white X.



STUDENT LIFE

Student Life provides opportunities for participation in leadership programs, student government, student clubs, and other social, personal growth and development experiences.

Student Life Office/Student Center Building 9C, Ext. 4525

The Student Life Office is responsible for student involvement and leadership programs, and serves as the hub of student activities at Mt. SAC. Information regarding the LEAD (Leadership Education and Development) Program, student leadership conferences, volunteer opportunities and other involvement opportunities that are available in Student Life. This office also handles lost and found items, approves and enforces all on-campus posting, and assists in contacting students in emergency situations.

Students who are involved in co-curricular activities are encouraged to complete the Activities Transcript (available online), which complements their academic transcript and verifies the student's involvement in service and leadership activities outside of the classroom.

The Director of Student Life serves to counsel and discipline students based upon the College's Student Discipline Policy. Students are assisted in understanding their due process rights and grievance procedures. The office responds to disciplinary issues and advises faculty

and staff on issues related to discipline. Students who have complaints regarding their final grades or their experiences on campus can receive assistance in the Student Life Office.

The Associated Students (AS) Government offices are located here as well as club mailboxes.

Student Life Center Building 9C, Ext. 5959

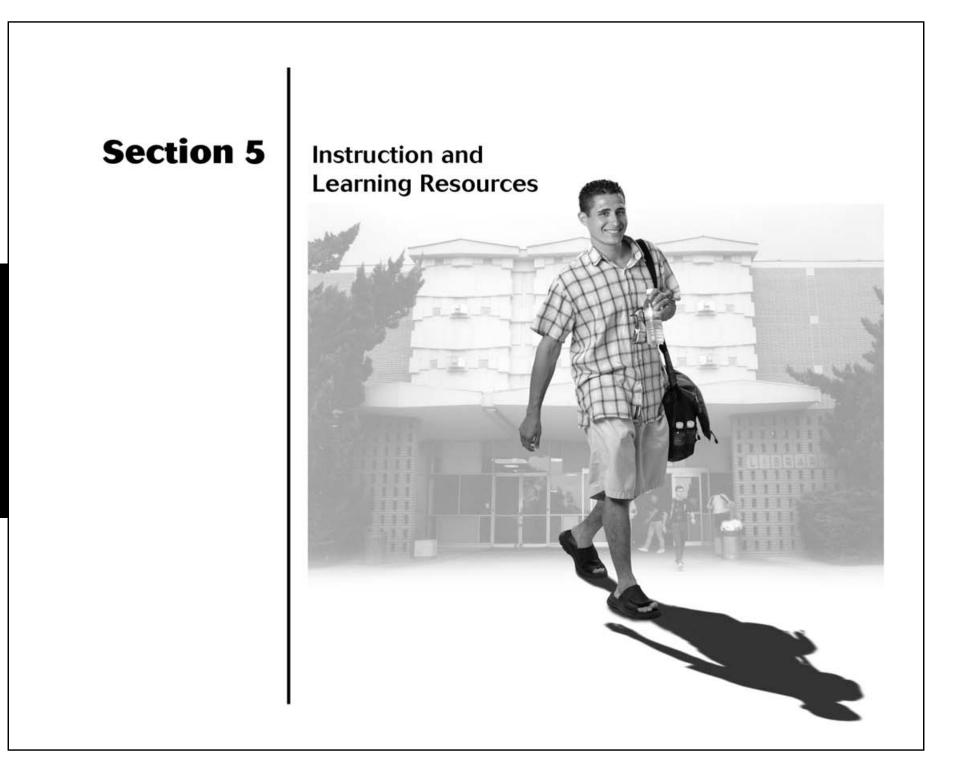
The Student Life Center provides a relaxing area to lounge, watch TV, play foosball, ping pong or a variety of board games. Students also have access to free wireless internet with their laptop. The Student Center creates a supportive and relaxing environment for students to socialize and connect with other students as well as serves as a meeting place for events, activities, clubs and student government. The Student Center is also the place to find information about off-campus housing.

Associated Students (AS) Student Government Building 9C, Ext. 4525

Student Government serves as the representative voice for students on all College issues and provides students with an opportunity to develop leadership skills. There are six executive officer positions and twenty Senate positions available to students interested in becoming involved in making a positive difference on campus. The Senate allocates monies to support various College programs, events and services. There are opportunities for students to also serve on College-wide committees to influence College policies and decision making. Associated Students meetings are held every Tuesday in the Student Center, Building 9C, Room 5 from 3:00 p.m. - 5:00 p.m. The Student Activities Fee funds many AS sponsored events and initiatives which support student clubs, programs, projects and services throughout the year. The Bursar's Office (Bldg. 9A) sells AS discount amusement park and movie tickets.

Campus Clubs and Organizations Building 9C, Ext. 4525

There are many opportunities for students to join a variety of over 45 student clubs: cultural, social, academic, religious and recreational. Students can also start a new club through the Student Life Office. The Inter-Club Council (ICC) is comprised of one representative from each student club. ICC meets weekly on Mondays from 1:00 p.m. - 2:00 p.m. to discuss club activities and formulate procedures to better serve the campus community. Join-A-Club is a three-day event that takes place at the beginning of each semester to inform students about student club involvement opportunities. A current listing of all student clubs and organizations is available in the Student Life Office.



Instruction and Learning Resources

INSTRUCTION

Distance Learning Program

What is Distance Learning?

Distance Learning is a mode of education in which a portion of the instruction occurs when there is a geographical distance between the teacher and the student. Students do not need to come to the campus each week but can learn from, and communicate with, their professor using a variety of technologies.

Online Learning Classes:

Mt. San Antonio College offers many classes online via the Internet. To be successful in these courses, students must have access to a personal computer with Internet connection using Netscape Navigator 6 or Internet Explorer 6 and an e-mail address.

Online-Supported (Hybrid) Classes:

Hybrid classes have one or more components of the class delivered in an online mode via the Internet. Students meet with their instructor and attend on-campus meetings. (*Number of on-campus meetings to be determined by the instructor*).

For further information about the Distance Learning Program at Mt. San Antonio College, contact the Dean, Library & Learning Resources at (909) 594-5611, Ext. 5658 or e-mail to *kstern@mtsac.edu*.

Study Abroad Program

Mt. San Antonio College offers students a wide range of study abroad opportunities. The Work and Study in London Program leads participants to obtain a mini-certificate in International Business while working for up to six months in the United Kingdom. There are also a number of short-term summer study programs sponsored by the college in international locations, and our membership in the California Colleges for International Education (CCIE) permits students to participate in study abroad programs sponsored by dozens of other member community colleges throughout California. Interested students may inquire about these programs by contacting the Humanities and Social Sciences Division Office, Ext. 4570, or by visiting the International Studies Office in Building 15, Room 17A.

Work Experience Education

Occupational work experience education is supervised work activity extending classroom-based occupational learning at an on-the-job learning station (work site) relating to the student's occupational goal. This is guided by a written agreement between the College, the work site, and the student, providing the learner with adequate equipment, materials, and facilities to support the learning objectives specified within the agreement.

Student Qualifications

Students participating in Work Experience must:

- 1. Have the approval of the assigned work-experience Instructor/Coordinator.
- 2. Have an occupational or educational goal to which, in the opinion of the Instructor/Coordinator, the work-experience chosen will contribute.
- 3. Pursue a planned program of work-experience education based on written, measurable learning objectives which are directly related to the student's educational program and which, in the opinion of the Instructor/Coordinator, include new or expanded responsibilities or learning opportunities beyond those experienced during previous employment. Repetition of experiences in an ongoing job does not permit continued eligibility for the program.
- Meet the following condition if self-employed: Identify a person who is approved by the Instructor/Coordinator to serve as a designated employer representative. This representative shall agree, in writing, to accept the following employer responsibilities:
 - a. Assist the student in identifying new or expanded on-the-job learning objectives.
 - b. Assist in the evaluation of the student's identified on-the-job learning objectives.
 - c. Validate hours worked.

Credits

For the satisfactory completion of work-experience education, the College will grant credit to a student in an amount not to exceed four (4) units per semester, with a maximum total of sixteen (16) units during the student's enrollment at the College. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester of supervised work is required for each one unit of credit.

The students must be, as verified by the supervising instructor, enrolled in an occupational program directly related to the work experience assignment.

The student enrolled in the work-experience program shall assume and comply with the following responsibilities:

- Unless otherwise determined, develop measurable learning objectives approved by the Instructor/ Coordinator and work-site supervisor.
- 2. If under the age of 18, obtain the written permission of their parents.
- 3. Faithfully discharge the duties of the on-the-job assignment.
- 4. Notify the Instructor/Coordinator of any work-site problems or change in status of duties.

- 5. Try at all times to represent themselves and the College positively while at the work site.
- 6. If, prior to enrolling in work-experience education, the student is already employed full time by the work site where the work experience will take place, the student must write a report concerning a learning objective that extended beyond the duties of the regular job.

Humanities/Social Sciences Computer Lab, Building 26D, Rooms 102, 104, 106

The Humanities/Social Sciences Computer Center offers free services to all students taking course in the Humanities and Social Science Division. There are three adjacent labs, each with a different function. The Humanities Computer Center (HCC) is a writing lab that students can use to word process their papers. Students can also create PowerPoint presentations in this facility. The main purpose of the Humanities Internet lab (HIL) is to provide Internet access. Students can research their papers using the library database, telecommunicate with instructors through e-mail, participate in chat rooms, as well as scan documents, burn CDs, print in color, and use word processing and PowerPoint. Finally, the Writing/Reading Assistance Center (WRAC) has a great selection of grammar software to help students improve their English skills. All three labs also have tutors and an English instructor on duty who can help students in a variety of subjects.

LIBRARY AND LEARNING RESOURCES

Learning Assistance Center, Building 6, South Entrance, Lower Level, Learning Technology Center

The Learning Assistance Center offers instruction for students who need to review pre-collegiate skills in math, reading, and writing. The center additionally offers free student services including tutoring, assessment of skills, and support in developing a personalized study plan.

Tutorial Services in the Learning Assistance Center provides free tutoring to all Mt. San Antonio College students, both drop-in and study group tutoring. Regularly scheduled tutors assist students with their course work in most subject areas and with their study skills techniques.

The Learning Lab computers and audio-visual equipment are available to all students in the community. The computers enable students to use the Internet for research, to communicate with instructors through e-mail, to view multimedia programs, to use word processing, to develop multimedia research projects, and to supplement classroom activities through computer-assisted instruction.

Library, Building 6, North Entrance, Upper Level, Learning Technology Center

The Library offers students, faculty, and staff a wide variety of information resources for their research needs. In addition to traditional resources such as books, journals, newspapers, videos, career guides, and college catalogs, researchers may also search numerous full-text article databases and access lists of pre-evaluated Internet web sites. Reserves allows faculty to provide continuous access to course materials free of charge to students.

Professional librarians are available days and evenings to teach library research techniques to entire classes by appointment and to individuals at the reference and information desk. The librarians at the library information desk are particularly helpful in assisting with all aspects of the research process from choosing a topic to searching for and evaluating information in print and electronic formats.

Media Services, Building 6, North Entrance, Upper Level, Learning Technology Center

Media Services has over three thousand DVDs and videos available for student viewing. Students must view the videos in the Media Services center.

COMPUTER AIDED GRAPHICS, VISUAL ARTS AND DESIGN PROGRAMS

Mt. San Antonio College offers many computer courses, majors, and certificates. Each of these has a special emphasis. The brief descriptions that follow are intended to help students select the correct computer specialization for their interests. Students planning to transfer to four-year institutions should consult the catalog of the school to which they plan to transfer for specific lower division requirements.

ARCHITECTURE & ENGINEERING DESIGN TECHNOLOGY DEPARTMENT

Architectural Technology

A.S. Degree & Certificates

<u>Prime Focus</u>: This is both a professional and vocational program that offers the full range of design and technical aspects of architecture, preparing students for employment, skill upgrade or transfer to universities. The program utilizes conventional and current computer graphics/design applications.

<u>Job Market</u>: Career opportunities include Architect, Architectural Designer, Drafter, CADD Operator, Model Builder, and Illustrator. (*See Sections 7 and 8*)

Engineering Design Technology

A.S. Degree & Certificates

<u>Prime Focus</u>: This course of study prepares students for Computer-Aided Design and Drafting careers in technical fields, including Engineering Drafting and Design Technologies in Electro Mechanical, Civil, and Mechanical Design. An A.S. Degree is offered in Engineering Design Technology and 3 level certificates.

<u>Job Market</u>: The curriculum is designed to prepare students in computer-aided drafting and design (CADD) for careers in technical fields such as: Mechanical Design, Engineering, Engineering Technology, Manufacturing, Civil Design, and Aerospace. (*See Sections 7 and 8*)

ART DEPARTMENT

Advertising Design & Illustration

A.S. Degree

<u>Prime Focus</u>: Builds upon the traditional core art courses to provide students with basic skills and concepts utilized in the visual communication industries.

Job Market: Advertising design skills are employed any time an image or graphic design needs to be generated for commercial usage.

Aesthetics for Technology

Certificate

Certificate

<u>Prime Focus</u>: Provides fundamental design skills and concepts related to art and technology-related industries.

<u>Job Market</u>: Skills acquired in this program may be utilized in a variety of visual communication industries including Art, Advertising, and Multimedia.

A.S. Degree & Certificates

<u>Prime Focus</u>: An integrated program of Traditional and Digital Animation providing skills for the entertainment arts.

<u>Job Market</u>: Supplies skills for a variety of entertainment arts careers including Traditional and Digital Animation, Motion Graphics, Gaming, Special Effects, and Web Animation.

Web Page Design

<u>**Prime Focus:**</u> To provide students with a course of study that includes the use of technology and design issues in a comprehensive way.

<u>Job Market</u>: Web design skills are used any time an organization, business, or individual utilizes the internet for marketing or advertising or as a promotional tool.

PHOTOGRAPHICS PROGRAM

Computer Graphic Design/Photography

Animation—(Traditional, 2-D, and 3-D Digital Animation)

A.S. Degree & Certificate

<u>Prime Focus</u>: Offers the full range of introductory to advanced courses in computer graphic design and photography. This program focuses on the application of the principles of visual communication design, and provides technical training in computer generated image production, manipulation, formatting and layout. The focus is on development, refinement and enhancement of visual design and technical skills.

Job Market: Free-Lance or Corporate Graphic Design; Marketing Photography; Advertising Design; Photojournalism; Commercial or Industrial Photography; Broadcast, Entertainment or Software Graphic Design. (*See Sections 7 and 8*)

Photography

A.S. Degree & Certificates

<u>Prime Focus</u>: Offers the full range of introductory to advanced courses. As both an art and technical craft, photography offers a dynamic set of creative challenges to both the person behind the camera and a wide range of technical specialist in related disciplines. The program focuses on development, refinement and enhancement of visual imaging.

Job Market: Freelance or Corporate Photographer, Studio or Location Photographer, Art/Gallery Photographer or Archivist, Photographic Developing/Printing Technician, Digital Photo Assistant, and Digital Editing Technician (*See Sections 7 and 8*)

COMPUTER PROGRAMMING, COMPUTER SECURITY, AND COMPUTER SERVICING

Mt. SAC offers many courses, certificates, and majors in the areas of computer programming, security, and servicing. Each of these has a special emphasis. The brief descriptions that follow are intended to help students select the correct computer specialization for their interests. Students planning to transfer should consult the catalog of the school to which they plan to transfer for specific lower division requirements.

Departments offering programs in computer programming, security, and servicing are:

- Computer Information Systems Department
- Electronics and Computer Technology Department
- Mathematics, Computer Science Department

COMPUTER INFORMATION SYSTEMS DEPARTMENT

Computer Information Systems

A.S. Degree & Certificate

Prime Focus: The curriculum of the CIS program covers such areas as basic computer literacy, microcomputer applications, the Internet, telecommunications, program development, computer networks, and operating systems. Program development incorporates creating graphical interfaces, client/server applications, object-oriented programming techniques, and web based applications. Course offerings include beginning and advanced relational database design on microcomputers and IBM AS/400 I series mid-range systems, systems analysis and design, and computer operations.

Mt. SAC's Regional Information Systems Security Center (RISSC) has developed new computer security courses to assist students with job-related and personal computer security demands. Courses most directly focused in this regard are CISS 11 – Practical Computer Security, CISS 13 – Principles of Information Systems Security, and CISS 15 – Operating Systems Security, along with RISSC's networking security courses.

Job Market: Applications Developer/Programmer, Computer Consultant, Computer Marketing/Sales Rep, Computer Network Technician, Help Desk Support Person, Web Page Designer, Information Systems Specialist, LAN Administrator, Microcomputer Trainer, Network Specialist, Office Systems Manager, On-line Publisher, Programmer, Software Engineer, Software Testing/Quality Assurance Specialist, Tech Support/ Customer Service Support, Webmaster. (*See Sections 7 and 8*)

ELECTRONICS & COMPUTER TECHNOLOGY DEPARTMENT

Electronics and Computer Engineering Technology

A.S. Degree & Certificate

<u>**Prime Focus:**</u> The Electronics Technology Programs prepare the student for a career as an electronic technician in manufacturing and service-based electronic and computer companies. Several computer-based courses are included in the program curricula.

Job Market: Career opportunities include Service Technician, Production Technician, Engineering Technician, Electronics Communication Technician, Computer Repair Technician, Networking Technician, and Assembler. (*See Sections 7 and 8*)

MATHEMATICS DEPARTMENT

Computer Science/Mathematics

<u>Prime Focus</u>: Offers a full range of introductory to advanced courses in Computer Science, from fundamentals to data structures and algorithms. A variety of courses in Computer Science theory, as well as programming languages such as C/C++, and Assembly prepare students for a successful career in software development and programming.

Job Market: Entry level positions in software development as programmers, software engineers, systems analysts, and applications software programmers. The Computer Science program is also a transfer program designed to fulfill the requirements for the first two years of a B.S. Degree in Computer Science. (*See Sections 7 and 8*)

OFFICE TECHNOLOGY DEPARTMENT

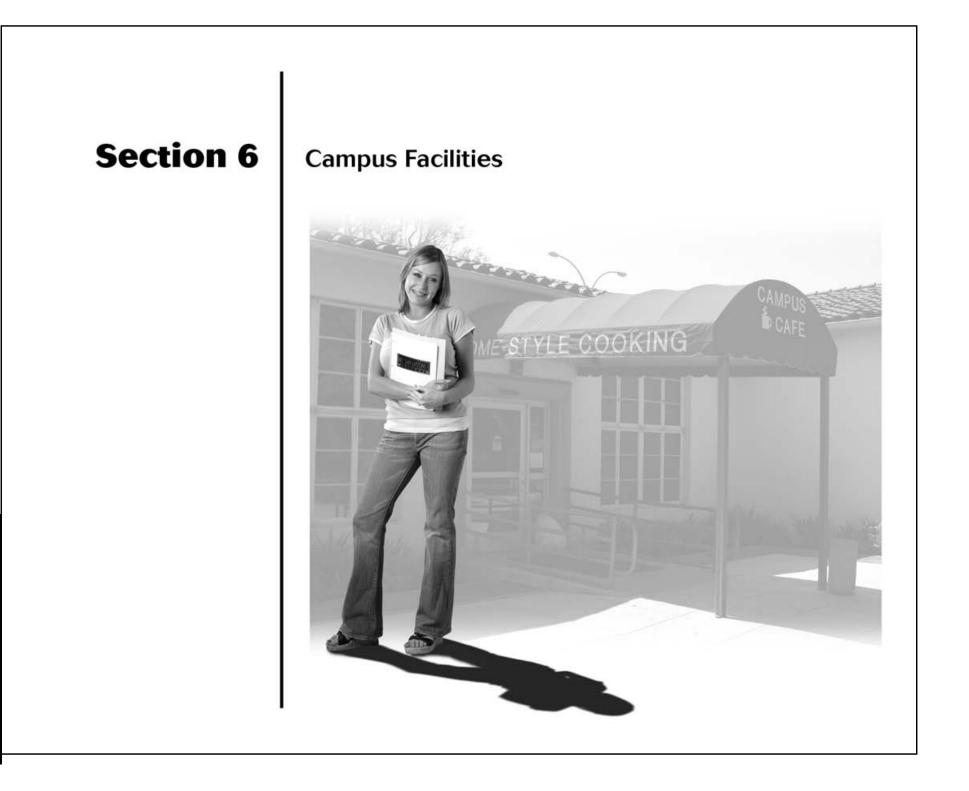
Desktop Publishing

A.S. Degree & Certificate

Transfer

<u>Prime Focus</u>: Prepares students with the skills to integrate text, photo images, and graphics in the production of printed and electronic business publications, such as newsletters and flyers.

Job Market: Executive Assistant, Home Business for printed or electronic publications, Office Support Staff, and Publishing Companies. (*See Sections 7 and 8*)



CAMPUS FACILITIES

Art Gallery Building 1B, Ext. 4328

The Mt. San Antonio College Art Gallery has a long history of outstanding Gallery Exhibitions highlighting prominent international and national artists as well as its outstanding faculty and students.

The Gallery offers four to five exhibitions per year. Among these are the Faculty Exhibition featuring the works of Mt. San Antonio College faculty artists and the annual Student Exhibition featuring student work from the fine arts, commercial arts, computer graphics, and photography.

For information on Gallery Exhibition dates and times, contact the Art Gallery office at **(909) 594-5611, Ext. 4328.**

Athletic Facilities, Ext. 4630

Hilmer Lodge Stadium, a 15,000-seat football and track facility, is located in the southeast section of the College campus. This is the home of the world famous "Mt. SAC Relays." Other athletic facilities include tennis courts, and volleyball courts, as well as a cross-country course, baseball field, softball field, soccer field, a 1,470-seat gymnasium, wrestling gym, strength-training facilities, an Olympic size swimming pool, and an Exercise Science/Wellness Center.

Auxiliary Services, Building 9D, Ext. 4470

The Auxiliary Services/Accounting Office serves students, faculty, staff, and the campus community. The following services are provided by this office:

- administration and supervision of the fiscal operations of the Associated Students
- accounting for Mt. SAC Relays, the Cross Country Invitational Meet and the AAF Youth Days
- accounting for campus clubs and trusts
- administration of the Athletic Services Fund
- accounting for the bookstore, Dining Services, and Performing Arts
- administration of contracts
- ticket sales for student events
- limited cashing of personal checks with campus ID
- ordering and distributing faculty caps and gowns
- billing for catering from Dining Services
- payroll/Human Resources for all areas of the enterprise
- processing of purchase orders and checks for all areas of the enterprise.
- preparing daily change funds for all areas of the enterprise
- processing vending machine refunds
- selling Foothill and Metro bus passes

Bookstore "SacBookRac," Building 9A, Ext. 4475

The bookstore, "SacBookRac," is located in Building 9A on the north end of the campus.

Students are encouraged to buy books early, especially if they are interested in purchasing used books (first-come/first-served). In addition to basic textbooks, general trade and paperback books, sundries, greeting cards, soft goods, and gifts are also available.

Refund Policy

Students must purchase their own textbooks and supplies. Expenses for books and supplies for full-time students average about \$300-\$350 per semester, depending upon the program of study selected.

Refunds are allowed within a certain limited time period when classes are changed and officially dropped. The refund policy is posted and available in the bookstore and printed on a bookmark given at the time of purchase.

Exercise Science/Wellness Center, Building 27A, North Door, Ext. 4625

This modern, multi-dimensional facility offers health and lifestyle screening; health, fitness, and performance physical fitness assessments; all levels of aerobic exercise (including step aerobics); circuit/strength training; and cardiorespiratory exercise.

Programs and services include: stress management, nutrition, diet/weight control, EKG/metabolic testing, athletic performance testing, individual health/fitness programming and injury prevention/ rehabilitation. Activities are offered for all age groups including a youth fitness program and courses for older adults.

The Center is open for a fee to Mt. San Antonio College students, staff, and surrounding community. The Center also provides corporate employee wellness programs on campus and at business work sites. For further information, contact the Exercise/Wellness Center at Ext. 4625.

Farm, Ext. 4540

The Farm, serving as a laboratory and as a supervised farm for students, offers an unrivaled opportunity for learning. Students interested in stock breeding, veterinary science, agri-business, horse production, field crop production, horticulture, floral design, or farm products may gain valuable experience in these fields by working with their own animals and crops while attending college. Contact the College's Campus Events office at Ext. 4794 for information on guided tours.

Food Services

The Food Services Department provides the campus community with a cafeteria, coffeehouse, fast food restaurant, and four convenience stores.

Campus Café Building 8, Ext. 4105

The Campus Café, located on the west side of campus next to the SacBookRac, features homemade, fresh cafeteria-style dining. Catering is available for small meetings up to large banquets.

Common Grounds

Building 8, Ext. 4180

Common Grounds, located inside the Campus Café, features Starbucks coffees, wireless Internet access, and Wednesday evening poetry readings.

Mountie Grill

Building 19C, Ext. 4624

The Mountie Grill, located on the southern portion of the campus, is a fast food restaurant providing a variety of food items.

Convenience Stores

All stores offer a variety of snack foods, cold and hot beverages, and school and test supplies.

Mountie Stop Building 9A, Ext. 4497

Express Stop Building 16A, Ext. 4142

Quick Stop Building 40, Ext. 6216

Short Stop Building 66

Vending Machines Buildings 4, 7, 9C, 26, 28, 30, 40, 45

Performing Arts Center

The Mt. San Antonio College Performing Arts Center is a 66,770 square foot facility that provides instructional and performance accommodations to the three main discipline areas of Theatre, Music, and Dance. The Performing Arts Center was designed as a technological, stateof-the-art instructional facility to prepare Mt. San Antonio College students for careers in the performing arts.

The **Sophia B. Clarke Theater** is a formal 415-seat, full proscenium theater that wraps the audience around a performance. By providing a circular form and box seats at the perimeter, audience intimacy with the stage is maximized. The stage and fly tower are at a professional scale and contain equipment equal to the finest state-of-the-art theaters both regionally and internationally.

The **Music Recital Hall** provides for intimate musical performances. The Recital Hall is a 250-seat acoustical space richly articulated with reflective surfaces of maple wood and acoustical plaster; it is acoustically shaped with a 43' high ceiling. Sound reflectors above the stage further support acoustical distribution.

The **Studio Theater** adjacent to the Clarke Theater is surrounded by a scene shop, costume shop, dressing rooms, and faculty offices. The 40' x 50' x 40' theater allows for total dramatic performance flexibility. An 18' lighting grid allows light and scene flexibility. The Studio Theater is such a flexible facility that it can accommodate most any seating and scene configuration.

The **Dance Studio** is a 56' x 85' x 30' high mirrored room that allows for a grand level of physical movement. With its ceiling and upper walls painted white and bathed in natural lighting, it is an appealing and brilliant space.

Each of the three venues was designed to provide state-of-the-art acoustical quality and technical performance capabilities that put the Mt. SAC Performing Arts Center on a level with the finest theaters in the region.

Performing Arts Center Box Office Box Office Phone: (909) 468-4050 Box Office Fax: (909) 468-4031

The Mt. San Antonio College Performing Arts Center Box Office is located in the Performing Arts Center Complex (off Grand Avenue) adjacent to the Sophia B. Clarke Theater. The Box Office is open Monday - Friday from 12:00 p.m. to 5:00 p.m. and two hours prior to a scheduled performance. The current season's brochure of events is available through the Box Office.

Ticket orders are accepted over the telephone, through the mail, in person, or by fax. Mastercard, Visa, Discover, and American Express are accepted. All phone-in and mail-in orders are subject to a \$3.00 service charge.

Tickets may be exchanged for another performance of the same production up to 24 hours before the performance. If patrons are unable to attend a performance, tickets may be returned and the college will issue a receipt for a tax-deductible donation. All tickets are non-refundable.

Planetarium, Ext. 2050

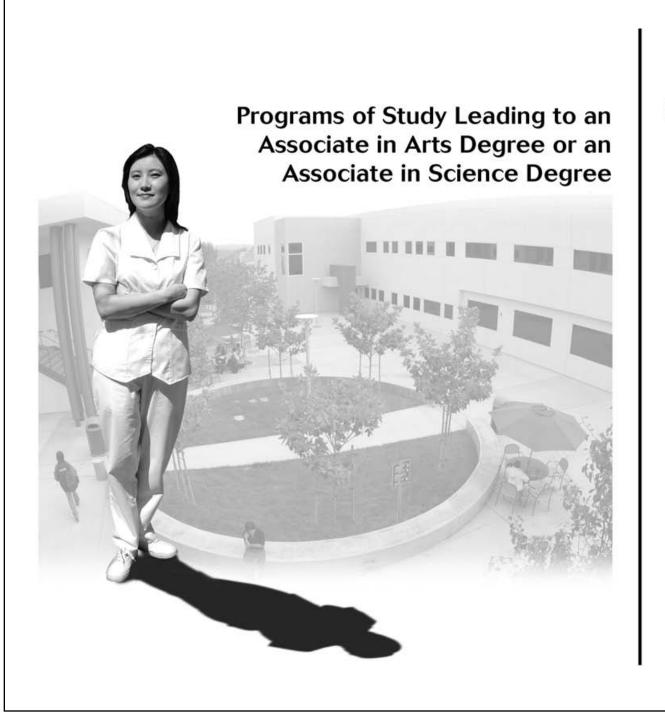
The planetarium offers instructional support for college classes, as well as a wide variety of public programs on a regular basis. Information on planetarium shows is available through a 24-hour "hotline." Please call **(909) 594-5611, Ext. 3810.** Special programs are offered for elementary and secondary school groups by reservation. Contact the College's Campus Events office, Ext. 4794, for further information.

Radio Station and Cable TV Station, Ext. 4678

KSAK, 90.1 FM, is the campus radio station broadcasting to the community. The Community College Instructional Network (CCIN), a distance learning network offering twenty-six credit courses via televised lessons to forty-two community colleges, originates from the Mt. San Antonio College Broadcast Studio.

Wildlife Sanctuary, Ext. 4425

This ten-acre parcel, located on the southwestern portion of the Mt. San Antonio College campus includes a stream, lake, pond, swamp, meadow, and woodland. The sanctuary has been set aside as a place where plants and animals exist in a natural balance. Paths through the sanctuary provide access for visitors. For guided tours, contact the College's Campus Events office at Ext. 4794.



Section 7

PROGRAMS OF STUDY LEADING TO AN ASSOCIATE IN ARTS DEGREE

Mt. San Antonio College offers six Associate in Arts degrees:

A.A. Transfer Studies – CSU
A.A. Transfer Studies – IGETC
A.A. Fine Arts & Humanities
A.A. Language Arts & Communication
A.A. Natural Sciences & Mathematics
A.A. Social & Behavioral Sciences

The A.A. Transfer Studies, CSU and IGETC, are designed to meet the needs of students planning to transfer to a 4-year college or university. The other four degree options are designed to meet the needs of students interested in graduating with an Associate level college degree by studying specific related disciplines of academic subjects. These students are not intending to pursue a specific occupational major, nor are they necessarily planning to transfer. However, careful educational planning with a counselor or an educational advisor will help to ensure that if a student did decide at a later date to transfer to a university, they would have a solid beginning in the transfer planning process.

A general overview of the "Graduation Requirements" for these Associate in Arts degrees is found on page 31 of this catalog. Below you will find the specific "major" requirements for each of the six A.A. degree options offered.

A.A. Transfer Studies – CSU

This major is intended for students who are planning to transfer to a university. They are also planning to transfer to one of the campuses of the California State University system. The "Major" requirements for this degree are met by completing the CSU General Education Pattern, listed later in this catalog, Section 9. In addition to CSU General Education certification, a student must meet all graduation requirements for an Associate in Arts degree, described on page 31 of this catalog.

A.A. Transfer Studies – IGETC

This major is intended for students who are planning to transfer to a university. Most students who follow IGETC are hoping to transfer to a University of California campus, but this pattern is also accepted by the California State University system. The "Major" requirements for an A.A. degree are met by completing the IGETC pattern. In addition to completing the IGETC pattern, a student must meet all graduation requirements for an Associate in Arts degree, described on page 31 of this catalog.

NOTE: All courses used for the A.A. degree majors may be doubled counted toward the Mt. San Antonio College General Education requirements.

Associate in Arts Degrees – Required Courses

A.A. Fine Arts & Humanities

Select 18 "Degree Appropriate" units from the following related disciplines:

AHIS	DN-T	HUMA 1	PHIL
ARTB	Foreign	ID 180	PHOT 15
ARTD	Languages	LIT	SIGN
ARTS	HIST	MUS	THTR

A.A. Language Arts & Communication

Select 18 "Degree Appropriate" units from the following related disciplines:

ENGL	LIT	PHIL 9	SIGN
Foreign	PHIL 3	PSYC 5	
Languages	PHIL 3H	R-TV	
JOUR	PHIL 8	SPCH	

A.A. Natural Sciences & Mathematics

Select 18 "Degree Appropriate" units from the following related disciplines:

AGOR 1	ANTH 3	GEOG	NF 25
ANAT	ASTR	GEOL	OCEA
ANTH 1	BIOL	MATH	PHSC
ANTH 1H	CHEM	METO	PHYS
ANTH 1L	CSCI	MICR	PSYC 1B

A.A. Social & Behavioral Sciences

Select 18 "Degree Appropriate" units from the following related disciplines:

•			
AGAG 1	BIOL 15	COUN	POLI
AGFR 20	BIOL 15H	EDUC	PSYC
ANTH 3	BUSC 1A	GEOG 2	SOC
ANTH 5	BUSC 1AH	GEOG 2H	SPCH 26
ANTH 22	BUSC 1B	GEOG 30	SPCH 26H
ANTH 30	BUSC 1BH	HIST	
ANTH 99	CHLD	JOUR 100	

PROGRAMS OF STUDY LEADING TO AN ASSOCIATE IN SCIENCE DEGREE

For associate in Science Degree majors, see listing on pages 34-35.

Application for Graduation

The Application for Graduation is the student's notification to Admissions and Records that he or she has completed all requirements and would like to receive a degree. The Application for Graduation form is available in the Admissions and Records office or online at *www.mtsac.edu/students/admissions/gradp.html.* Students should meet with a Counselor to discuss their Education Plan prior to submitting the Application for Graduation.

All students intending to receive a degree must file an Application for Graduation with the Admissions and Records office and have on file all required documents and official transcripts. The deadline dates for submitting the Application for Graduation are as follows:

Fall:	deadline to apply for fall graduation is the end of the ninth week.
Winter:	deadline to apply for winter graduation is the end of the ninth week of the fall semester.
Spring:	deadline to apply for spring graduation is the end of the ninth week.
Summer:	deadline to apply for summer graduation is the end of the ninth week of the spring semester.

Students should check the *Schedule of Classes* in the Key Dates to Remember section for specific deadline dates for any given semester. Applications received after the deadline will be processed with the next graduation cycle. Students may apply for graduation one semester prior to completing all required coursework. Once the degree has been conferred, the degree will be posted to the student's academic record and will appear on the transcript. Students will also receive their diplomas in the mail thereafter. If a student is denied graduation, he or she will be informed in writing.

Multiple Degrees

The Associate in Science degree shall be awarded to those graduates who majored in one of the occupational programs at Mt. San Antonio College. Students may be awarded both an Associate in Science degree and an Associate in Arts degree with the 60 units required for an Associate degree if they have met the requirements for both within the 60 units or earned credit. Each additional degree requires 18 units of course work beyond the 60 units required for the first degree(s), and must include the satisfactory completion of all the required courses in the additional major. Students awarded additional degrees must meet or complete the current general education requirements in effect at the time of re-entry.

Residency Requirement

The Residency Requirement for Mt. San Antonio College can be met in either of two ways: (1) twelve [12] units in residence and enrollment at Mt. San Antonio College in the last semester or (2) forty-five [45] units in residence, if the last semester is not at Mt. San Antonio College.

NOTE: All students must file a petition for graduation with the Admissions & Records Office and have on file all required documents and transcripts.

ASSOCIATE IN ARTS DEGREE GRADUATION REQUIREMENTS 2007-2008

A.A. Degrees in the following majors:*

Social & Behavioral Sciences Fine Arts & Humanities Language Arts & Communication Natural Science & Mathematics

Unit Requirement: Sixty (60) degree-appropriate units. A letter grade of "C" or better is required for each course required for graduation.

Major Requirement: A minimum of 18 units chosen from the appropriate list of courses for the major. A list of the courses found on page 30 of this catalog.

Math Competency: (3 units minimum) This requirement is met by completing one of the following with a grade of "C" or better.

- 1. Math 61 Plane Geometry, <u>or</u>
- 2. Math 71 Intermediate Algebra, <u>or</u> MATH 71B Intermediate Algebra–Second Half, <u>or</u>
- 3. Completing a more advanced college level mathematics course.
- 4. Obtaining a satisfactory score on the
- Intermediate Algebra Competency Examination, or the Plane Geometry Competency Examination.

GPA Requirement: A Mt. San Antonio College "degree" total grade point average, and "all college" total grade point average of 2.0.

General Education Requirements: At least 24 units are required which shall include courses in each of the General Education areas, A through E (*see pages* 33-34). All courses must be completed with a grade of "C" or better.

A.A. Transfer Studies – CSU*:

Unit Requirement: Sixty (60) baccalaureate level (transferable) units are required for graduation. A letter grade of "C" or better is required for each course required for graduation.

Major Requirement: Completion of CSU G.E. Certification Pattern. (*see pages 98-100*)

Math Competency: Satisfied by completing CSU G.E. certification of Area B-4. (*see page 98*)

GPA Requirement: A Mt. San Antonio College "degree" total grade point average, "all college" total grade point average, and "baccalaureate" level grade point average of 2.0. **General Education Requirements:** Satisfied by completion of CSU G.E. Certification Pattern AND completion of the CSU U.S. History and American Institutions requirement. (*see pages 98-100*)

A.A. Transfer Studies – IGETC*:

Unit Requirement: Sixty (60) baccalaureate level (transferable) units are required for graduation. A letter grade of "C" or better is required for each course required for graduation.

Major Requirement: Completion of IGETC Certification Pattern. (*see pages 102 - 103*)

Math Competency: Satisfied by completing

IGETC certification, Area 2 (see page 102).

GPA Requirement: A Mt. San Antonio College "degree" total grade point average, "all college" total grade point average, and "baccalaureate" level grade point average of 2.0.

General Education Requirements: Satisfied by completion of the IGETC Certification Pattern, AND successful completion of Oral Communication requirement, AND the CSU U.S. History and American Institutions graduation requirement, AND completion of local Mt. SAC G.E., Area E (*see pages 98 - 100 and 35*).

NOTE: The information stated below pertains to all A.A. degree options described above:

*Physical Well-Being Requirement: Complete at least one of the physical education activity courses with the following prefixes: DNCE, PE-A, PE-F, PE-I, PE-L, PE-S, PE-X with a grade of "C" or better or "CR".

*Reading Competency: This requirement is met by completing one of the following with a grade of "C" or better:

READ 90Preparing for College ReadingAMLA 33RAmerican Language Advanced Readingor obtaining placement into READ 100 on initialReading placement exam or obtaining a satisfactoryscore on the Reading Competency Test.

- *Residency Requirement: The residency requirement for Mt. San Antonio College can be met in either of two ways:
- a) 12 units in residence and enrollment in last semester, <u>or</u>
- b) 45 units in residence if the last semester is not at Mt. San Antonio College

ASSOCIATE IN SCIENCE DEGREE GRADUATION REQUIREMENTS 2007-2008

A.S. Degrees by major are listed on pages 34-35 in this section.

Unit Requirement: Sixty (60) associate degreeappropriate units with a letter grade of "C" or better in all courses is required for graduation.

Major Requirement: Satisfied by completing all the required courses in an approved occupational program with a minimum grade of "C" in all courses.

Math Competency: (3 units minimum) This requirement is met by completing one of the following courses with a grade of "C" or better:

1.

AGAG 91	Agricultural Calculations or
ELMA 65B	Mathematics of Electronics
MATH 51	Elementary Algebra or
MATH 51A	
MATH 51B	Elementary Algebra–Second Half
MATH 52	<u>or</u> Algebra with Applications I
MATH 72	<u>and</u> Algebra with Applications II
MATH 59	<u>or</u> Fundamentals of Applied
	Mathematics

Mathematics <u>or</u>

- MATH 61 Plane Geometry <u>or</u>
- Completing a more advanced college level mathematics course with a grade of "C" or better.
- 3. Obtaining a satisfactory score on the Elementary Algebra Competency Examination.

GPA Requirement: A Mt. San Antonio College "degree" total grade point average, and "all college" total grade point average of 2.0.

General Education Requirements: At least 24 units are required which shall include courses in each of the General Education areas, A through E (*see pages* 33-34). All courses must be completed with a letter grade of "C" or better.

Residency Requirement: The residency requirement for Mt. San Antonio College can be met in either of two ways:

- a) 12 units in residence and enrollment in last semester, <u>or</u>
 b) 45 units in residence if the last competence
- b) 45 units in residence if the last semester is not at Mt. San Antonio College

Physical Well-Being Requirement: Complete at least one of the physical education activity courses with the following prefixes: DNCE, PE-A, PE-F, PE-I, PE-L, PE-S, PE-X with a grade of "C" or better or "CR".

Reading Competency: This requirement is met by completing one of the following with a grade of "C" or better:

 READ 90
 Preparing for College Reading

 AMLA 33R
 American Language Advanced Reading

 or obtaining placement into READ 100 on initial
 Reading placement exam or obtaining a satisfactory

 score on the Reading Competency Test.
 Reading Competency Test.

NOTE: All students must file a petition for graduation with the Admissions & Records Office and have on file all required documents and transcripts.

GENERAL EDUCATION REQUIREMENTS

Philosophy Statement

General education is the distinguishing feature of higher education. It is a broadly-based core of humanistic knowledge and abilities, the acquisition of which is the distinctive characteristic of the educated person. General education courses emphasize the ability to reason, to examine issues from different perspectives, to challenge authority, and to communicate ideas logically and confidently. They instill openmindedness, respect for differences among people, and knowledge of self. By exposing students to different fields of study, general education courses provide an understanding of the human condition and of human accomplishments and encourage a lifelong interest in learning. Together with other Mt. San Antonio College degree requirements, the general education component of the associate degree prepares students to:

- transfer to and function successfully in a baccalaureate degreegranting institution;
- enter the work force as a competent, productive citizen;
- live a richer, more rewarding life.

General education courses are not primarily skills-based, nor are they limited to, or more appropriate for, majors in a specialized field of study. Courses that fulfill general education requirements must:

- 1. Require post-secondary level skills in reading, writing, quantitative reasoning, and critical thinking.
- 2. Improve students' abilities to:
 - communicate oral and written ideas effectively;
 - define problems, design solutions, critically analyze results;
 - use available media to access and retrieve reliable information for data gathering and research;
 - work effectively, both cooperatively and independently;
 - develop and question personal and societal values, make informed choices, and accept responsibility for their decisions;
 - function as active, responsible, ethical citizens;
 - acquire the curiosity and skills essential for lifelong learning.
- 3. Impart understanding, knowledge, and appreciation of:
 - our shared scientific, technological, historical, and artistic heritage, including the contributions of women, ethnic minorities, and non-western cultures;
 - the earth's ecosystem, including the processes that formed it and the strategies that are necessary for its maintenance;

- human social, political, and economic institutions and behavior, including their interrelationships;
- the psychological, social, and physiological dimensions of men and women as individuals and as members of society.

Courses that fulfill general education requirements must fall into one of the content categories listed below:

- A. Communication and Critical Thinking
- B. Science and Math
- C. Arts and Humanities
- D. Social Sciences
- E. Lifelong Understanding and Self-Development

Criteria for inclusion in each of the above categories are itemized below:

A. Communication and Critical Thinking

These courses emphasize both the content and form of communication. They teach students the relationship of language to logic, as well as how to analyze, criticize, and advocate ideas; to reason deductively and inductively; and to reach sound conclusions. Courses fulfilling this requirement:

- provide understanding of the psychological and social significance of communication;
- illustrate how communication operates in various situations;
- focus on communication from the rhetorical perspective: reasoning, advocacy, organization, accuracy; the discovery, critical evaluation, and reporting of information; reading, listening, speaking, and writing effectively;
- provide active participation and practice in written and oral communication.
- **B.** Science and Mathematics

These courses impart knowledge about living and non-living systems, and mathematical concepts and quantitative reasoning with applications. Courses fulfilling this requirement:

- promote understanding and appreciation of the methodologies and tools of science;
- emphasize the influence of scientific knowledge on the development of civilization;
- impart appreciation and understanding of basic concepts, not just skills;
- offer specific inquiry into mathematical concepts, quantitative reasoning and application. (See Mt. SAC degree competency requirements.)

C. Humanities

These courses cultivate intellect, imagination, sensibility and sensitivity. They encourage students to respond subjectively as well as objectively and to develop a sense of the integrity of emotional and intellectual responses. Courses fulfilling this requirement:

- study great work of the human imagination;
- increase awareness and appreciation of the traditional humanistic disciplines such as art, dance, drama, literature, and music;
- impart an understanding of the interrelationship between creative art, the humanities, and the self;
- provide exposure to both Western and non-Western cultures;
- may include a foreign language course that contains a cultural component as opposed to a course that focuses solely on skills acquisition.

D. Social Sciences

These courses explore, at the micro and macro-level, the social, political, and economic institutions that underpin society. Courses fulfilling these requirements:

- promote understanding and appreciation of social, political, and economic institutions;
- probe the relationship between these institutions and human behavior;
- examine these institutions in both their historical and contemporary context;
- include the role of, and impact on, non-white ethnic minorities and women;
- include both Western and non-Western settings.

E. Lifelong Understanding and Self-Development

These courses facilitate an understanding of human beings as integrated physiological, social and psychological organisms. Courses fulfilling this requirement:

provide selective consideration of human behavior, sexuality, nutrition, health, stress, implications of death and dying, and the relationship of people to the social and physical environment.

	GENERAL EDUCATION REQUIREMENTS FOR 2007-2008					
AREA A:		PHSC 7L	Physical Science Laboratory			
Communic	ation in the English Language	PHYS 1	Physics			
(6 units):	2 2 2	PHYS 2AG	General Physics			
Select two [[2] courses from the following:	PHYS 2BG	General Physics			
ENGL 1A	Freshman Composition, or	PHYS 4A	Engineering Physics			
ENGL 1AH	Freshman Composition – Honors	LIFE SCIENC	ΈS			
	<u>and</u>	AGOR 1	Horticultural Science			
SPCH 1A	Public Speaking, <u>or</u>	ANAT 10A	Introductory Human Anatomy			
SPCH 1AH	Public Speaking – Honors	ANAT 10B	Introductory Human Physiology			
AREA B:		ANAT 35	Human Anatomy			
	al Universe and Life (3 units):	ANAT 36	Human Physiology			
	[1] course from the Physical Sciences or	ANTH 1	Biological Anthropology			
Life Science		ANTH 1H	Biological Anthropology – Honors			
PHYSICAL S		ANTH 1L	Biological Anthropology Laboratory			
ASTR 5	Introduction to Astronomy	BIOL 1	General Biology			
ASTR 5	Astronomical Observing Laboratory	BIOL 2	Plant and Animal Biology			
ASTR 7	Geology of the Solar System	BIOL 3	Ecology and Field Biology			
ASTR 8	Introduction to Stars, Galaxies, and the	BIOL 4	Biology for Majors			
	Universe	BIOL 4H	Biology for Majors – Honors			
CHEM 10	Chemistry for Allied Health Majors	BIOL 6	Humans and the Environment			
CHEM 20	Introductory Organic and Biochemistry	BIOL 6L BIOL 17	Humans and the Environment Laboratory			
CHEM 40	Introduction to General Chemistry	BIOL 17 BIOL 20	Neurobiology and Behavior Marine Biology			
CHEM 50	General Chemistry I	BIOL 20 BIOL 21	Marine Biology Laboratory			
CHEM 50H	General Chemistry I – Honors	MICR 1	Principles of Microbiology			
CHEM 51	General Chemistry II	MICR 22	Microbiology			
GEOG 1	Elements of Physical Geography	PSYC 1B	Biological Psychology			
GEOG 1L	Physical Geography Laboratory		Diological i Sychology			
GEOG 1H	Elements of Physical Geography –	AREA C:				
	Honors	Arts and Humanities (6 units):				
GEOG LH	Physical Geography Laboratory – Honors		[2] courses, six [6] units minimum, with at			
GEOL 1	Physical Geology		1] course from the Arts and one [1] from			
GEOL 7	Geology of California	Humanities				
GEOL 8	Earth Science	ARTS				
GEOL 8H	Earth Science – Honors	AHIS 1	Understanding the Visual Arts, <u>or</u>			
GEOL 8L GEOL 9	Earth Science Laboratory	ARTB 1	Understanding the Visual Arts			
GEOL 9 GEOL 10	Environmental Geology Natural Disasters	AHIS 10	A History of Greek and Roman Art and			
GEOL 10 GEOL 13	Evolution of the Earth	AHIS 1H	Architecture			
METO 3	Weather and the Atmospheric	AHIS TH AHIS 2	Understanding the Visual Arts — Honors Topics in Visual Art and Culture			
MLIU J	Environment	AHIS Z AHIS 2H	Topics in Visual Art and Culture – Honors			
METO 3L	Weather and the Atmospheric	AHIS ZH AHIS 3	History of Women and Gender in Art			
MEIO JE	Environment Laboratory	AHIS 3H	History of Women and Gender in Art –			
OCEA 10	Introduction to Oceanography		Honors			
OCEA 10H	Introduction to Oceanography – Honors	AHIS 4	History of Western Art: Prehistoric			
OCEA 10L	Introduction to Oceanography Laboratory	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Through Gothic			
PHSC 7	Physical Science	AHIS 4H	History of Western Art: Prehistoric			
	-		Through Gothic – Honors			
*Courses ma	y not be double counted to satisfy more than a	ı no aroa ovon i	-			

*Courses may not be double counted to satisfy more than one area, even if a course is listed in more than one area.

		GENERAL EDUCATION REQUIRE	MENTS FO	R 2007-2008 (continued)
1	AHIS 5	History of Western Art: Renaissance	FRCH 2	Continuing Elementary French
1		Through Modern	FRCH 3	Intermediate French
	AHIS 5H	History of Western Art: Renaissance	FRCH 4	Continuing Intermediate French
		Through Modern — Honors	FRCH 5	Advanced French
	AHIS 6	History of Modern Art	FRCH 6	Continuing Advanced French
	AHIS 6H	History of Modern Art – Honors	FRCH 60	French Culture Through Cinema
	AHIS 9	History of Asian Art	GERM 1	Elementary German
	AHIS 11	History of African, Oceanic, and Native	GERM 2	Continuing Elementary German
		American Art	GERM 3	Intermediate German
	AHIS 12	History of Precolumbian Art	*HIST 1	History of the U.S.
	AHIS 12H	History of Precolumbian Art – Honors	*HIST 3	History of World Civilization
	ARCH 31	World Architecture I	*HIST 3H	History of World Civilization – Honors
	ARCH 32	World Architecture II	*HIST 4	History of World Civilization
	ARTB 14	Basic Studio Arts	*HIST 4H	History of World Civilization – Honors
	ARTD 15A	Drawing: Beginning	*HIST 7	History of the U.S.
	ARTD 20	Design: Two-Dimensional	*HIST 7H	History of the U.S. – Honors
	ARTD 25A	Painting: Beginning	*HIST 8	History of the U.S.
	ARTG 20	Art, Artists and Society	*HIST 8H	History of the U.S. – Honors
	ARTS 22	Design: Three-Dimensional	*HIST 10	History of Asia
	ARTS 30A	Ceramics: Beginning	*HIST 11	History of Asia
	ARTS 40A	Sculpture: Beginning	*HIST 19	History of Mexico
	DN-T 20	History and Appreciation of Dance	*HIST 30	History of the African American
	ID 180	History of Interior Architecture and	*HIST 31	History of the African American
	1000 7	Furnishings I	*HIST 35	History of Africa
	MUS 7	Fundamentals of Music	*HIST 36	Women in American History – Beyond
	MUS 11A	Music Literature Survey	*111CT 20	the Stereotypes
	MUS 11B	Music Literature Survey	*HIST 39	California History History of the Mexican American
	MUS 12 MUS 13	History of Jazz Introduction to Music Appreciation	*HIST 40 HUMA 1	The Humanities
	MUS 13 MUS 13H	Introduction to Music Appreciation –	ITAL 1	Elementary Italian
		Honors	ITAL 1	Continuing Elementary Italian
	MUS 14A	World Music	ITAL 2	Intermediate Italian
	MUS 14A	American Folk Music	ITAL 4	Continuing Intermediate Italian
	MUS 15	Rock Music History and Appreciation	ITAL 5	Advanced Italian
	PHOT 15	History of Photography	ITAL 6	Continuing Advanced Italian
	SPCH 4	Oral Interpretation of Literature	ITAL 60	Italian Culture Through Cinema
	THTR 9	Introduction to Theatre Arts	JAPN 1	Elementary Japanese
	THTR 10	History of Theatre Arts	JAPN 2	Continuing Elementary Japanese
	THTR 11	Principles of Acting I	JAPN 3	Intermediate Japanese
	HUMANITIE		JAPN 4	Continuing Intermediate Japanese
1	CHIN 1	Elementary Chinese	JAPN 5	Advanced Japanese
	CHIN 2	Continuing Elementary Chinese	LIT 1	Early American Literature
	CHIN 2 CHIN 3	Intermediate Chinese	LIT 2	Modern American Literature
1	CHIN 4	Continuing Intermediate Chinese	LIT 6A	Survey of English Literature
1	ENGL 1B	English — Introduction to Literary Types	LIT 6B	Survey of English Literature
	ENGL 1BH	English – Introduction to Literary	LIT 11A	World Literature
		Types – Honors	LIT 11B	World Literature
1	FRCH 1	Elementary French	LIT 14	Introduction to Modern Poetry
1				· · · · · · · · · · · · · · · · · · ·

* Courses may not be double counted to satisfy more than one area, even if a course is listed in more than one area.

LIT 15	Introduction to Cinema
LIT 20	African American Literature
LIT 25	Contemporary Mexican American
	Literature
LIT 33	Images of Women in Literature
LIT 35	Science Fiction and Fantasy Survey
LIT 36	Introduction to Mythology
LIT 40	Children's Literature
LIT 46	The Bible as Literature: Old Testament
LIT 47	The Bible as Literature: New Testament
PHIL 5	Introduction to Philosophy
PHIL 5H	Introduction to Philosophy – Honors
PHIL 12	Ethics
PHIL 12H	Ethics – Honors
PHIL 15	Major World Religions
PHIL 15H	Major World Religions – Honors
PHIL 20A	History of Western Philosophy
PHIL 20B	History of Western Philosophy
SIGN 101 SIGN 102	American Sign Language 1 American Sign Language 2
SIGN 102 SIGN 103	American Sign Language 3
SIGN 103	American Sign Language 4
SIGN 202	American Deaf Culture
SPAN 1	Elementary Spanish
SPAN 2	Continuing Elementary Spanish
SPAN 3	Intermediate Spanish
SPAN 4	Continuing Intermediate Spanish
SPAN 11	Spanish for the Spanish Speaking
SPAN 12	Continuing Spanish for the
	Spanish Speaking
SPAN 25	Spanish Literature
AREA D:	
Social, Poli	tical and Economic Institutions
	U.S. History and American Institutions
Select one [1	1] course from the following:
*HIST 1	History of the U.S.
*HIST 7	History of the U.S.
*HIST 7H	History of the U.S. – Honors
*HIST 8	History of the U.S.
*HIST 8H	History of the U.S. – Honors
*HIST 30	History of the African American
*HIST 31	History of the African American
*HIST 36	Women in American History –
*UICT 10	Beyond the Stereotypes
*HIST 40	History of the Mexican American History of Native Americans
*HIST 44	Political Science
POLI 1	

GENERAL EDUCATION REQUIREM	MENTS FOR	2007-2008 (continued)	
Introduction to Cinema	POLI 1H	Political Science – Honors	
African American Literature	POLI 25	Politics of the Mexican American	
Contemporary Mexican American	POLI 35	African American Politics	
Literature	Elective Co	urses – select at least one [1] course	
Images of Women in Literature		ollowing list (3 units):	
Science Fiction and Fantasy Survey	AGAG 1	Food Production, Land Use and Politics –	
Introduction to Mythology		A Global Perspective	
Children's Literature	AGFR 20	Conservation of Natural Resources	
The Bible as Literature: Old Testament	ANTH 3	Archaeology	
The Bible as Literature: New Testament	ANTH 5	Principles of Cultural Anthropology	
Introduction to Philosophy	ANTH 22	General Cultural Anthropology	
Introduction to Philosophy – Honors	ANTH 30	The Native American	
Ethics	BUSC 1A	Principles of Economics —	
Ethics – Honors		Macroeconomics	
Major World Religions Major World Religions — Honors	BUSC 1AH	Principles of Economics —	
History of Western Philosophy		Macroeconomics – Honors	
History of Western Philosophy	BUSC 1B	Principles of Economics –	
American Sign Language 1		Microeconomics	
American Sign Language 2	BUSC 1BH	Principles of Economics –	
American Sign Language 3		Microeconomics – Honors	
American Sign Language 4	CHLD 1	Child, Family, and Community	
American Deaf Culture	CHLD 10	Child Growth and Development	
Elementary Spanish	CHLD 10H	Child Growth and Development – Honors	
Continuing Elementary Spanish	GEOG 2	Human Geography	
Intermediate Spanish	GEOG 2H	Human Geography – Honors	
Continuing Intermediate Spanish	GEOG 5	World Regional Geography	
Spanish for the Spanish Speaking	GEOG 8 GEOG 30	The Urban World	
Continuing Spanish for the	*HIST 3	Geography of California History of World Civilization	
Spanish Speaking	*HIST 3H	History of World Civilization – Honors	
Spanish Literature	*HIST 4	History of World Civilization – Honors	
	*HIST 4H	History of World Civilization – Honors	
itical and Economic Institutions	*HIST 10	History of Asia	
U.S. History and American Institutions	*HIST 11	History of Asia	
1] course from the following:	*HIST 19	History of Mexico	
History of the U.S.	*HIST 35	History of Africa	
History of the U.S.	*HIST 39	California History	
History of the U.S. — Honors	JOUR 100	Mass Media and Society	
History of the U.S.	JOUR 107	Race, Culture, Sex, and Mass Media Images	
History of the U.S. – Honors	POLI 2	Political Science	
History of the African American	POLI 5	Political Science Theory	
History of the African American	POLI 9	Introduction to International Relations	
Women in American History –	PSYC 1A	Introduction to Psychology	
Beyond the Stereotypes	PSYC 1AH	Introduction to Psychology – Honors	
History of the Mexican American	PSYC 19	Abnormal Psychology	
History of Native Americans	*PSYC 25	The Psychology of Women	
Political Science	SOC 1	Sociology	

*Courses may not be double counted to satisfy more than one area, even if a course is listed in more than one area.

GENERAL EDUCATION REQUIREMENTS FOR 2007-2008 (continued)

60.6 AU			
SOC 1H	Sociology – Honors	BIOL 13	Human Reproduction, Development
SOC 2	Sociology		and Aging
SOC 2H	Sociology — Honors	BIOL 15	Human Sexuality
SOC 4	Introduction to Gerontology	BIOL 15H	Human Sexuality — Honors
SOC 5	Introduction to Criminology	CHLD 10	Child Growth and Development
SOC 14	Marriage and the Family	*CHLD 10H	Child Growth and Development – Honors
SOC 15	Child Development	*COUN 5	Career/Life Planning
SOC 20	Sociology of Ethnic Relations	FCS 41	Life Management
SOC 20H	Sociology of Ethnic Relations – Honors	LEAD 55	Exploring Leadership
SPCH 7	Intercultural Communication	NF 10	Nutrition for Personal Health
SPCH 26	Interpersonal Communication		and Wellness
SPCH 26H	Interpersonal Communication – Honors	NF 25	Essentials of Nutrition
AREA E:		NF 25H	Essentials of Nutrition – Honors
	ndevetending and Colf Development	NF 28	Cultural and Ethnic Foods
(3 units):	nderstanding and Self-Development	PE 34	Fitness for Living
. ,	[1] course from the following:	PSYC 14	Developmental Psychology
-	· ·	*PSYC 25	The Psychology of Women
AD 3	Chemical Dependency: Intervention,	PSYC 26	Psychology of Sexuality
	Treatment and Recovery	PSYC 33	Psychology for Effective Living
BIOL 5	Contemporary Health Issues		

* Courses may not be double counted to satisfy more than one area, even if a course is listed in more than one area.

ALPHABETICAL LISTING — ASSOCIATE IN SCIENCE DEGREE (A.S.)

Mt. San Antonio College offers two year occupational degrees which are described in the section of the Catalog. The degrees meet the degree requirements for the Associate in Science Degree major. Additional general education courses needed for completion of the degree requirements are listed in Section 3 -Academic Information and Requirements of this Catalog. For further information, please consult with the Career Counseling office on the upper level of the Student Services Center.

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A	B-C
Accounting	Business: Management
Administrative Assistant	Business: Retail Management
Advertising Design and Illustration	Chemical Laboratory Technician
Agri-Technology 36	Child Development
Air Conditioning and Refrigeration	Commercial Flight 40
Airframe and Aircraft Powerplant	Computer and Networking Technology
Maintenance Technology – Day	Computer Graphics Design/Photography
Airframe and Aircraft Powerplant	Computer Network Administration and
Maintenance Technology — Evening	Security Management 40
Alcohol/Drug Counseling	Computer Programmer – C++ 41
Animation	Computer Programmer – Database
Architectural Technology	Management Systems
Aviation Science	Computer Programmer – Telecommunications 41
	Computer Programmer – Visual Basic
	Construction Inspection
	Correctional Sciences

Equipment Technology 44

Horse Ranch Management 47 Livestock Management 50

Ornamental Horticulture53

Registered Veterinary Technology 58

ALPHABETICAL LISTING — ASSOCIATE IN SCIENCE DEGREE (A.S.) (continued)

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Desktop Publishing42
Educational Paraprofessional
Electronics and Computer Engineering
Technology42
Emergency Medical Services
Engineering Design Technology43
Equipment Technology 44
Escrow Management

Family and Consumer Sciences
Fashion Design
Fashion Merchandising 44
Fire Technology45
Fire Technology — Administration
Fire Technology — Administrative
Communications45
Fire Technology – Administrative Law
Fire Technology — Fire Management
Fire Technology – Fire Prevention
Fire Technology — Fire Training
Fire Technology – Private Fire Service
Floral Design

G-H

General Business
Histologic Technician Training
Horse Ranch Management 47
Hospitality and Restaurant Management 47
Human Resource Management

I-J-K

Interior Design 48
Interior Design – Kitchen and Bath Design 48
International Business

Law Enforcement 49	
Licensed Vocational Nurse to RN	
Livestock Management 50	

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Manufacturing Technology
Technician
rnamental Horticulture53
aralegal/Legal – Bankruptcy Specialty53 aralegal/Legal – Corporations/
Business Specialty53
aralegal/Legal — Criminal Specialty
aralegal/Legal – Family Law Specialty
aralegal/Legal – Landlord/Tenant Specialty 54
ark & Sports Turf Management
et Science
hotography
hysical Education
sychiatric Technician to RN

•
Radio Broadcasting: Behind the Scenes
Radio Broadcasting: On the Air 57
Radiologic Technology57
Real Estate
Real Estate Appraisal58
Registered Veterinary Technology 58
Respiratory Therapy 59
S-T
Sign Language/Interpreting60
Small Business Management
Television Production60
U - V- W

 International Marketing Ma Paralegal/Leg
 Paralegal/Leg Paralegal/Leg Business S Paralegal/Leg Paralegal/Leg

LISTING BY INSTRUCTIONAL DIVISION — ASSOCIATE IN SCIENCE DEGREE (A.S.)

Arts Division	
Advertising Design and Illustration	
Animation	. 38
Computer Graphics Design/Photography	. 40
Photography	. 55
Radio Broadcasting: Behind the Scenes	
Radio Broadcasting: On the Air	. 57
Television Production	. 60
Rusiness & Fronomic Development Division	

Development Division

Business & Economic Development Division	Divisional Education Division
Accounting	Physical Education Division
Administrative Assistant	Physical Education55
Business: Management	Technology & Health Division
Business: Retail Management	
Child Development	Air Conditioning and Refrigeration
Computer Network Administration &	Airframe and Aircraft Powerplant
Security Management	Maintenance Technology – Day
Computer Programmer – C++	Airframe and Aircraft Powerplant
Computer Programmer – Database	Maintenance Technology – Evening
Management Systems 41	Alcohol/Drug Counseling
Computer Programmer – Telecommunications 41	Architectural Technology
Computer Programmer – Visual Basic	Commercial Flight
Desktop Publishing 42	
Escrow Management	Computer and Networking Technology 40 Construction Inspection 42
Family and Consumer Sciences	Correctional Sciences
Fashion Design 44	Electronics and Computer Engineering
Fashion Merchandising 44	Technology
General Business	Emergency Medical Services
Hospitality and Restaurant Management	Engineering Design Technology
Human Resource Management	Fire Technology
Interior Design	Fire Technology – Administration
Interior Design – Kitchen and Bath Design 48	Fire Technology – Administrative
International Business	Communications
Marketing Management 50	Fire Technology – Administrative Law
Paralegal/Legal – Bankruptcy Specialty53	Fire Technology – Fire Management
Paralegal/Legal – Corporations/	Fire Technology – Fire Prevention
Business Specialty53	Fire Technology – Fire Training
Paralegal/Legal – Criminal Specialty 54	Fire Technology – Private Fire Service
Paralegal/Legal – Family Law Specialty54	Law Enforcement
Paralegal/Legal – Landlord/Tenant Specialty 54	Licensed Vocational Nurse to RN
Real Estate	Manufacturing Technology 50
Real Estate Appraisal	Mental Health Technology – Psychiatric
Small Business Management	Technology
Humanities & Social Sciences Division	Nursing
Educational Paraprofessional	Psychiatric Technician to RN
Sign Language/Interpreting	Radiologic Technology
	Respiratory Therapy 59
Natural Sciences Division	Welding 60
Agri-Technology36Chemical Laboratory Technician39	

Account Account Major 20	ing and Management Dep	artme	ent	Rec Requ BUS BUS
should foll	preparing to become professional ow the Business Administration co	urse fo	r a four-	BUS
training for	e or university. The following is sen r those who seek employment in l g positions at the end of two yea	oookke		COM
	ments for the Major			СОМ
Required				CISB
BUSA 7	Principles of Accounting — Financial	5.0	CSU, UC	COM
BUSA 8	Principles of Accounting – Managerial	5.0	CSU, UC	CON CON
BUSA 21	Cost Accounting	4.0		
BUSA 52	Intermediate Accounting	3.0		CON
BUSA 53	Ten-Key Calculations, <u>or</u>	2.0		PLU
BUSA 81	Work Experience in Accounting	1.0		Sele
BUSA 58	Federal Income Tax Law	3.0		CON
BUSA 70	Payroll and Tax Accounting	3.0		CON
BUSA 75	Using Microcomputers in Financial Accounting, <u>or</u>	1.0		CON CON
BUSA 81	Work Experience in Accounting	1.0		
BUSA 76	Using Microcomputers in Managerial Accounting, <u>or</u>	1.0		
BUSA 81	Work Experience in Accounting	1.0		
BUSM 20	Principles of Business	3.0	CSU, UC	Ac
BUSO 25	Business Communications	3.0	CSU	Art
CISB 15	Microcomputer Applications	4.0	CSU, UC	Ma
	Total Units 36.0	- 37.0		This com

Administrative Assistant Office Technology Department Major 20514

This program is intended to prepare students for employment following graduation as administrative assistants, executive assistants, office managers, or other clerical and support staff. Training in a variety of computer and clerical skills is emphasized. Students desiring a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

gice							
Requirements for the Major ARTD 15.							
Required c	equired core courses:						
BUSO 5	Business English	3.0		ARTD 20			
BUSO 25	Business Communications	3.0	CSU	ARTD 25A			
BUSO 26	Oral Communications for Business	3.0		PLUS			
COMP 2	Intermediate Computer Keyboarding	4.0		Select one AHIS 5			
COMP 12	Office Computer Applications, or	4.0	CSU, UC				
CISB 15	Microcomputer Applications	40	CSU, UC	AHIS 5H			
COMP 20	Word for the Business Professional	4.0	250,02	AHIS 6			
COMP 28	Office Management Skills	3.0		AHIS 6H			
COMP 50	Desktop Presentations using PowerPoint	4.0	CSU				
COMP 68	Transcription Techniques	3.0		Recomme			
PLUS				AHIS 4			
Select one	(1) course from:						
COMP 11	Internet Research for Business	2.0	CSU	ANIM 172			
COMP 13	Using Web Page Software	4.0	CSU	ANIM 175			
COMP 18	Data Entry	3.0		ARTC 77			
COMP 60	Desktop Publishing with InDesign or Pagemaker	4.0	CSU	ARTC 78A			
	Total Units 33.0 -	35.0		ARTC 78B			
Advert	ising Design and Illu	ctra	tion	ARTC 78C			
Art Depa	5 5	Jua		ARTD 16			
Major 21				ARTD 45			
This progra	m is designed to provide student	ts with	na	ARTS 22			
combinatio	on of critical thinking skills, proble and the technical expertise neces	em sol	ving	PHOT 10			
level employment as a Graphic Designer or Illustrator in							
Advertising	and related Visual Communicati	on ind	lustries.	Agri-T			
Students c	Agricult Major 20						
training or for transfer to a college or university for							
further stu	,			The progra			
-	ments for the Major			and divers			
Required c				comprehe			
ARTC 60	Graphic Design: Lettering and Typography		CSU, UC	unique in designed t			
ARTC 66	Portfolio	3.0		skills and			
ARTC 70	Computer Graphics:	3.0	CSU	transfer sh			

3.0 CSU

3.0 CSU

Introduction

Computer Graphics 2:

Advanced Layout and Design

Illustration

ARTC 165

ARTC 171

ARTD 15A	Drawing: Beginning	3.0	CSU, UC	The fo	llowing programs list all courses	neede	d
ARTD 17A	Drawing: Life		CSU, UC	to satisfy n	najor requirements. Students ma	iy obta	in
ARTD 20	Design: Two Dimensional	3.0	CSU, UC		upon completion of required co		
ARTD 25A	Painting: Beginning	3.0	CSU, UC		courses needed for completion		
PLUS					Degree are listed in this Catalog		
	(1) course from:				at all students consult with the		
AHIS 5	History of Western Art:	3.0	CSU, UC	educationa	n, faculty advisor, or counselor to	o nie ai	1
/////5/5	Renaissance Through Modern,	5.0	00,00		programs are intended to prepa	re stud	ents
	<u>or</u>				ment following graduation. Stu		
AHIS 5H	History of Western Art:	3.0	CSU, UC		's Degree (<i>transfer program</i>) sho		
	Renaissance Through Modern –				epartment chairperson, counsel		
	Honors				transferability of courses. The cu		
AHIS 6	History of Modern Art, <u>or</u>		CSU, UC		nature to allow for previous exp		and
AHIS 6H	History of Modern Art – Honors	3.0	CSU, UC		on in a given area of agriculture	e and	
	Total Units	30.0		agricultura			
Recomme	nded Electives:				ments for the Major		
AHIS 4	History of Western Art:			Required o		2.0	CCU 1
	Prehistoric Through Gothic			AGAB 20	Microcomputer Applications in Agriculture	3.0	CSU, L
ANIM 172	Motion Graphics with After Effect	ts		AGAG 1	Food Production, Land Use and	3.0	CSU, L
ANIM 175	Web Animation with Flash			AUAU I	Politics – A Global Perspective	5.0	C30, C
ARTC 77	Computer Graphics: Illustration			AGAG 91	Agricultural Calculations	3.0	
ARTC 78A	Work Experience in Advertising I	Design	n/	AGAN 1	Animal Science		CSU, L
	Illustration			AGOR 1	Horticultural Science		CSU
ARTC 78B	Work Experience in Advertising I Illustration)esign	1/	AGOR 32	Landscaping and Nursery Management		CSU
ARTC 78C	Work Experience in Advertising I	Design	n/	AGOR 56	Engine Diagnostics	3.0	CSU
	Illustration			AGOR 70	Landscape Construction		CSU
ARTD 16	Drawing: Perspective				Fundamentals	5.0	CJU
ARTD 45	Printmaking: Silk-Screening			PLUS	, and an entails		
ARTS 22	Design: Three-Dimensional			Select thre	e (3) courses from:		
PHOT 10	Basic Digital and Film Photograp	hy		AGFR 20	Conservation of Natural Resources	3.0	CSU, L
-	echnology			AGLI 14	Swine Production	3.0	CSU
	ural Sciences Department			AGLI 16	Horse Production	4.0	CSU, L
Major 20				AGLI 17	Sheep Production	3.0	CSU
	m of courses in Agriculture is desi			AGLI 30	Beef Production	3.0	CSU
	dents to prepare for a career in thi		ential	AGOR 24	Integrated Pest Management	3.0	CSU
	e profession. The department offer 1sive Agricultural Sciences program		ic	AGOR 62	Landscape Irrigation –	3.0	CSU
					Design and Installation		
unique in that most courses provide hands-on experiences designed to give the student a combination of practical			AGPE 70	Pet Shop Management	3.0		
skills and technical knowledge. Students who intend to				AGPE 71	Canine Management	3.0	
transfer should check the lower division requirements in the catalog of the college or university which they will attend and also the semester and year in which the					Total Units 33.0	- 34.0	
courses are	e offered.						

Air Conditioning and Refrigeration Air Conditioning, Water & Welding Technologies Major 20909

This program is designed to prepare the student for employment in the broad field of air conditioning, heating and refrigeration and leads to occupations in design, manufacturing, operation, sales, distribution, installation, maintenance and repair. Students desiring a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses

Requirements for the Major Reauired courses:

AIRC 10	Technical Mathematics in Air Conditioning and Refrigeration	2.0
AIRC 11	Welding for Air Conditioning and Refrigeration	2.0
AIRC 12	Air Conditioning Codes and Standards	3.0
AIRC 20	Refrigeration Fundamentals	3.0
AIRC 25	Electrical Fundamentals for Air	4.0
	Conditioning and Refrigeration	
AIRC 26A	Heat Pump Fundamentals	1.5
AIRC 26B	Gas Heating Fundamentals	2.0
AIRC 30	Heat Load Calculations	3.0
AIRC 31	Commercial Electrical for Air Conditioning and Refrigeration	4.0
AIRC 32A	Air Properties and Measurement	t 1.5
AIRC 32B	Air Distribution Systems	1.5
AIRC 34	Advanced Mechanical Refrigeration	4.0
AIRC 37	Pneumatic Controls	2.0
AIRC 39	Building Automation Systems	4.0
	Total Units	37.5

Airframe and Aircraft Powerplant Maintenance Technology – Day Aircraft Maintenance Technology & Manufacturing Department Major 20911

This program prepares students to enter employment as a certified airframe and powerplant technician in the aircraft maintenance industry. Training is given in the overhaul of various airframes and powerplants and their components. Completion of this program leads to an Associate in Science Degree. Two state-awarded certificates are also available upon successful completion of this program — one certificate in Airframe Maintenance

Technology and one certificate in Aircraft Powerplant Maintenance Technology. Excellent opportunities for employment exist in this area of training. Certain administrative, quality control, and flight personnel careers require the applicant to hold a valid A & P Certificate.

This program offers a day (*full-time*) or evening (part-time) program option. The only difference between the two options is the course numbering and time required to complete the program. Day program courses AIRM 65A and 65B are equivalent to evening program courses AIRM 95A, 95B, 96A, 96B, 97A, 97B, 98A, and 98B. Day program courses AIRM 66A and 66B are equivalent to evening program courses AIRM 90A, 90B, 91A, 91B, 92A, 92B, 93A, and 93B. The evening program courses are offered in 9-week modules.

Successful completion of this program enables students to take the FAA examinations in Airframe, General, and Powerplant. Passing the General Exam plus the Airframe and/or Powerplant Exam provides certification as an Aircraft Maintenance Technician, which is required for employment in this field. Students desiring a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

12.0 CSU

12.0 CSU

12.0

12.0

3.0

3.0

Requirements for the Major Reauired courses: AIRM 65A Aircraft Powerplant Maintenance Technology AIRM 65B Aircraft Powerplant Maintenance Technology AIRM 66A Airframe Maintenance Technology Airframe Maintenance AIRM 66B Technology AIRM 70A Aircraft Maintenance Electricity and Electronics AIRM 70B Aircraft Maintenance Electricity and Electronics AIRM 71 Aviation Maintenance Science

- 6.0 AIRM 72 Aviation Materials and Processes 1.5 AIRM 73 Aviation Welding 1.5 63.0
 - **Total Units**

Recommended Electives:

AIRM 74 Aircraft Maintenance Technology -Work Experience AIRM 80 Lab Studies in Aircraft Maintenance Technology AIRM 81 Lab Studies in Aircraft Maintenance Technology

EDT 12	Technical Engineering Drawing II
ELEC 90	Survey of Electronics
MFG 70	Technical Mathematics – Manufacturing Applications

PHYS 1 Physics

Airframe and Aircraft Powerplant Maintenance Technology – Evening Aircraft Maintenance Technology & Manufacturing Department Maior 20951

This program prepares students to enter employment as a certified airframe and powerplant technician in the aircraft maintenance industry. Training is given in the overhaul of various airframes and powerplants and their components. Completion of this program leads to an Associate in Science Degree. Two state-awarded certificates are also available upon successful completion of this program — one certificate in Airframe Maintenance Technology and one certificate in Aircraft Powerplant Maintenance Technology. Excellent opportunities for employment exist in this area of training. Certain administrative, quality control, and flight personnel careers require the applicant to hold a valid A & P Certificate.

This program offers a day (*full-time*) or evening (part-time) program option. The only difference between the two options is the course numbering and time required to complete the program. Day program courses AIRM 65A and 65B are equivalent to evening program courses AIRM 95A, 95B, 96A, 96B, 97A, 97B, 98A, and 98B. Day program courses AIRM 66A and 66B are equivalent to evening program courses AIRM 90A, 90B, 91A, 91B, 92A, 92B, 93A, and 93B. The evening program courses are offered in 9-week modules.

Successful completion of this program enables students to take the FAA examinations in Airframe, General, and Powerplant. Passing the General Exam plus the Airframe and/or Powerplant Exam provides certification as an Aircraft Maintenance Technician, which is required for employment in this field. Students desiring a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses. **Requirements for the Major**

Reauired courses:

AIRM 70A	Aircraft Maintenance Electricity and Electronics	3.0
AIRM 70B	Aircraft Maintenance Electricity and Electronics	3.0
AIRM 71	Aviation Maintenance Science	6.0

AIRM 72	Aviation Materials and Processes	1.5
AIRM 73	Aviation Welding	1.5
AIRM 90A	Airframe Maintenance	3.0
	Technology	
AIRM 90B	Airframe Maintenance	3.0
	Technology	
AIRM 91A	Airframe Maintenance	3.0
	Technology	
AIRM 91B	Airframe Maintenance Technology	3.0
AIRM 92A	Airframe Maintenance	3.0
	Technology	5.0
AIRM 92B	Airframe Maintenance	3.0
	Technology	
AIRM 93A	Airframe Maintenance	3.0
	Technology	
AIRM 93B	Airframe Maintenance	3.0
	Technology	
AIRM 95A	Aircraft Powerplant Maintenance Technology	3.0
AIRM 95B	Aircraft Powerplant	3.0
	Maintenance Technology	5.0
AIRM 96A	Aircraft Powerplant	3.0
	Maintenance Technology	510
AIRM 96B	Aircraft Powerplant	3.0
	Maintenance Technology	
AIRM 97A	Aircraft Powerplant	3.0
	Maintenance Technology	2.0
AIRM 97B	Aircraft Powerplant Maintenance Technology	3.0
AIRM 98A	Aircraft Powerplant	3.0
	Maintenance Technology	5.0
AIRM 98B	Aircraft Powerplant	3.0
	Maintenance Technology	
	Total Units	63.0
Recommen	ded Electives:	
AIRM 74	Aircraft Maintenance Technol	oav —
	Work Experience	- 57
AIRM 80	Lab Studies in Aircraft Mainte	enance
	Technology	
AIRM 81	Lab Studies in Aircraft Mainte Technology	enance
EDT 12	Technical Engineering Drawir	ng II
ELEC 90	Survey of Electronics	-
MFG 70	Technical Mathematics – Mai	nufacturing
	Applications	5
PHYS 1	Physics	

				<u> </u>							1
Alasha					Requirements:			PLUS			ARCH 16
Alcohol/Drug Counseling				ge application and be accepted a	as a stude			2) courses from:			
Major 22	ervices Department			at Mt. San	Antonio College.				Animation Background Layout	3.0 CSU	ARCH 18
•					Procedures:			ANIM 120	Script Development for	3.0	
	gram the student integrates the xperience in developing skills ne				are open to all students who me	et admiss			Animation		ARCH 21 ARCH 23
	Icohol and drug abuse population			requirement	nts and course prerequisites.			ANIM 132	Modeling, Texture Mapping	3.0	
	nd employers of chemically-depe			Special Ins				ANIM 175	and Lighting Web Animation with Flash	3.0	ARCH 26
	ilum is designed to meet the cre				ted Electives must be taken prio	r to					ARCH 27
	nts of the California Association				nent in Field Experience.			ARTD 16	Drawing: Perspective	3.0 CSU, UC	ANCH Z/
	Students who complete this opt				ted Electives can be taken in con	ijunction			Total Units	36.0	ARCH 28
employme	nt in a variety of chemical-depe	ndent se	ettings.		ore and skills courses.			Recommen	ded Electives:		
Require	ments for the Major			c. Refer t	to Schedule of Credit Classes for s	sequence		AHIS 4	History of Western Art:		ARCH 29
Required c	ore courses:				estions call Professor Paul Sharpe	∘ at			Prehistoric Through Gothic		EDT 20
AD 1	Alcohol/Drug Dependency	3.0	CSU		54 or the division office at ext. 4			AHIS 5	History of Western Art:		
AD 2	Physiological Effects of	3.0	CSU						Renaissance Through Modern		
	Alcohol/Drugs			Anima	tion			ANIM 107	Figure in Motion		Recommend
AD 3	Chemical Dependency:	3.0	CSU	Art Depa				ANIM 109	Advanced Principles of Animati	on	AHIS 5
	Intervention, Treatment			Major 21				ANIM 111	Animal Drawing		
	and Recovery	2.0		The Anima	tion Program offers an integrated	d/		ANIM 118	Background Painting		ARCH 89
AD 4	Issues in Domestic Violence	3.0	<u>(())</u>		inary approach to prepare studer		PI 1	ANIM 120	Script Development for Animat	ion	ARTD 15A ARTD 20
AD 5	Chemical Dependency: Prevention and Education	1.5	CSU	current and	d future job market demands. The	e student	will	ANIM 134	Dynamic Digital Environments		ARTD 20 ARTS 22
AD 6	Dual Diagnosis	3.0	CSU		balanced blend of art and techn		JCu		Visual Effects II: Particle System	IS	EDT 26
	skill courses:	5.0	000		are essential for today's careers			ANIM 148	Demo-Reel		ID 130
		2.0			m offers both an A.S. Degree and			ARTD 25A	Painting: Beginning		INSP 67
AD 8	Group Process and Leadership	3.0			tent is driven by industry needs e student with the best possible						INSP 70
AD 9	Family Counseling	3.0			r in animation or for transfer to a		tion		ctural Technology		INSP 70
AD 10	Client Record and Documentation	1.5		of higher l		un moticut			ure and Engineering		
AD 11	Techniques of Intervention	3.0		-	ments for the Major			Major 202	epartment 201		ARTA, ARTC, A
	and Referral	5.0		Required c				•	m is intended to prepare studen	ute to optor	for transfer p
Roquirod f	field work courses:			ANIM 101		3.0 CS			architecture and related areas. 1		The Architec
AD 13	Internship/Seminar	3.5	CSU	ANIM 101	Drawing Fundamentals, <u>or</u>	3.0 CS			ith an option of direct employm		students cor courses chos
AD 13 AD 14	Advanced Internship/Seminar	3.5		ARTD 15A	Drawing: Beginning	3.0 CS	-		paration for transfer to the profe		with a profe
	Auvanceu internsinp/ seriinai	5.5	CJU	ANIM 108	Principles of Animation	3.0 CS	50		ure. The student will be required		them detern
PLUS Soloct civ (6) units from:			ANIM 115	Storyboarding	3.0			and working drawing portfolio		career plans
CHLD 10	Child Growth and	2.0	CSU, UC	ANIM 116	Character Development	1.5			and computer (CADD) skills are		·
	Development, <u>or</u>	5.0	C30,0C	ANIM 119	Portfolio	1.5		-	ogram. A certificate program is a	ilso available.	Aviatio
CHLD 10H	Child Growth and	3.0	CSU, UC	ANIM 130	Introduction to 3-D Computer	3.0			nents for the Major		Aeronauti
	Development – Honors	5.0	00,00		Animation			Required co			Major 209
PSYC 1A	General Psychology, <u>or</u>	3.0	CSU, UC	ARTC 70	Computer Graphics:	3.0 CS		ARCH 10	Design I – Elements of Design	3.0 CSU	This curricul
PSYC 1AH	General Psychology – Honors		CSU, UC		Introduction			ARCH 11	Architectural Drawing	3.0 CSU, UC	Aviation Adr
PSYC 19	Abnormal Psychology		CSU, UC	ARTD 17A	Drawing: Life	3.0 CS		ARCH 12	Architectural Materials and	3.0 CSU	Under an ed
SOC 1	Sociology, <u>or</u>		CSU, UC	ARTD 20	Design: Two Dimensional	3.0 CS			Specifications		FAA, this CTI
SOC 1H	Sociology – Honors		CSU, UC	ARTS 22	Design: Three-Dimensional	3.0 CS	JU, UC	ARCH 13	Architectural Illustration	3.0 CSU, UC	aviation care
SOC 14	Marriage and the Family		CSU, UC					ARCH 14	Building and Zoning Codes	3.0	may be reco
SOC 15	Child Development		CSU, UC					ARCH 15	Architectural Working Drawings – I	3.0 CSU	FAA as air tr
	Total Units	40.0							nawinys – i		
		40.0		1							1

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Basic CAD and Computer 4.0 CSU, UC Application Architectural Computer Aided 3.0 Design Elements Design II – Architectural Design 3.0 CSU **Architectural Presentations** 3.0 CSU Architectural CAD Working 3.0 Drawings Design III – Environmental 3.0 CSU, UC Design Architectural CAD 3.0 CSU 3-D Illustration and Animation Design IV – Advanced Project 3.0 CSU Technical Descriptive Geometry 3.0 CSU **Total Units** 46.0 nded Electives: History of Western Art: **Renaissance Through Modern** Architectural Work Experience Drawing: Beginning **Design: Two Dimensional**

Construction Estimating C, ARTD, ARTS, and ID courses are recommended er portfolios.

Design: Three-Dimensional Civil Engineering Technology and CAD Applied Color and Design Theory Reading Construction Drawings **Elements of Construction**

tectural Technology Faculty recommend that complement their studies with selected elective nosen from the list above. Students should meet ofessor of Architectural Technology to help ermine which electives would best suit their ans.

on Science

utics and Transportation Department 0910

culum meets the requirements of the Federal Administration Collegiate Training Initiative (CTI). educational partnership agreement with the CTI program prepares students for broad-based careers. Students completing this CTI program ecommended by the college for hiring by the traffic controllers.

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3.0 CSU, UC

3.0 CSU

3.0 CSU

3.0 CSU, UC

3.0 CSU, UC

Programs Leading to an Associates Degree

Child, Family and Community

Child Development Programs

Survey of Child Development

Requirements for the Major Required courses:					
AERO 23	Primary Pilot Ground School				
AERO 24	Navigation				
AERO 26	Aviation Weather				

	Total Units	31.0	
TRAN 17	Air Transportation	3.0	CSU
CISB 11	Computer Information Systems	3.5	CSU, UC
AIRT 43	Air Traffic Control Team Skills	1.5	CSU
AIRT 42	Air Traffic Control Environment	3.0	CSU
	Performance		
AIRT 41	Aircraft Recognition and	2.0	CSU
AERO 30	Instrument Ground School	3.0	CSU
AERO 29	Federal Aviation Regulations	2.0	CSU
ALITO ZI	Factors	5.0	000
AERO 27	Aviation Safety and Human	3.0	CSU

4.0 CSU

3.0 CSU

3.0 CSU

Recommended Electives:

.

AERO 25	Commercial Pilot Ground School
AERO 28	Aircraft and Engines
AERO 40	Flight
AERO 40L	Flight Laboratory
BUSM 60	Human Relations in Business

Business: Management

Accounting and Management Department Major 20506

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This program is intended to prepare students for employment following graduation. Students wishing a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

Requiren	nents for the Major		
Required co	ourses:		
BUSA 7	Principles of Accounting — Financial	5.0	CSU, UC
BUSM 10	Principles of Continuous Quality Improvement	3.0	
BUSM 20	Principles of Business	3.0	CSU, UC
BUSM 51	Principles of International Business	3.0	
BUSM 60	Human Relations in Business	3.0	CSU
BUSM 61	Business Organization and Management	3.0	CSU
BUSM 62	Human Resource Management	3.0	
BUSS 36	Principles of Marketing	3.0	CSU
CISB 15	Microcomputer Applications	4.0	CSU, UC
	Total Units	30.0	

	ommen	ded Electives:		
BUS	M 81	Work Experience in Business, <u>or</u>		
BUS	M 82	Work Experience in Business, or		
BUS	M 83	Work Experience in Business, or		
BUS	M 84	Work Experience in Business		
BUS	M 85	Special Issues in Business, <u>or</u>		
BUS	S 85	Special Issues in Marketing		
		ss: Retail Manageme		
Acc Ma	ounti jor 20	ng and Management Depa 509	artme	ent
This	progra	m exposes students to the busin	ess wo	orld and
		retail distribution. Students beco		
		rs in retail management as well a		
		nis fast changing field. Completio		
		ds the student's search for an en anagement.	try-lev	vel job
		•		
		ments for the Major		
-		ourses:	5.0	<u></u>
BUS		Principles of Accounting — Financial, <u>or</u>		CSU, UC
	A 72	Bookkeeping – Accounting	5.0	
	A 11	Fundamentals of Accounting	3.0	
	M 60	Human Relations in Business		CSU
BUS	M 61	Business Organization and Management	3.0	CSU
BUS	M 62	Human Resource Management	3.0	
BUS	0 25	Business Communications	3.0	CSU
BUS	0 26	Oral Communications for Business	3.0	
BUS	S 36	Principles of Marketing	3.0	CSU
CISE	3 15	Microcomputer Applications	4.0	CSU, UC
EVCI	H 62	Retail Store Management and Merchandising, <u>or</u>	3.0	CSU
FAJ				
	S 50	Retail Store Management and Merchandising	3.0	

to prepare students for employment as entry-level chemical technicians in fields such as chemical quality control, chemical process control, analytical chemistry,

	water quality, and research and development. The program includes a broad-based overview of workforce <i>Required courses:</i>				
instrument	d emphasizes development of ar t proficiency, critical thinking, and f experimental designs and outco	l troub		CHLD 1 CHLD 5	Child, Family and Commur Principles/Practices in Child Development Progra
Require Required c	ments for the Major ourses:			CHLD 6	Survey of Child Developm Curriculum
BUSM 10	Principles of Continuous Quality Improvement	3.0		CHLD 10	Child Growth and Development, <u>or</u>
CHEM 20	Introductory Organic and Biochemistry	5.0	CSU, UC	CHLD 10H	Child Growth and Development – Honors
CHEM 50 CHEM 51	General Chemistry I General Chemistry II	5.0 5.0	CSU, UC CSU, UC	CHLD 64	Health, Safety and Nutriti of Young Children
CHEM 60 CHEM 75	Quantitative Chemical Analysis Instrumental Analysis	5.0 5.0	CSU, UC	CHLD 66	Early Childhood Developm Observation
CHMT 1	Introduction to Chemical Laboratory Technology	3.0		CHLD 66L	Early Childhood Developm Observation Laboratory
CHMT 8	Work Experience in Chemical Technology	1.0		CHLD 67	Early Childhood Developm Participation
CHMT 9	Work Experience in Chemical Technology	2.0		CHLD 67L	Early Childhood Developm Participation Laboratory
PLUS	<i></i>			CHLD 68	Children with Special Nee
•	6) units from:	2.0	CSU	CHLD 69	Early Childhood Developm Field Work Seminar
CHMT 5	Elementary Principles of Chemical Processing			CHLD 84	Guidance and Discipline ir Child Development Settin
MICR 22	Microbiology		CSU, UC	CHLD 91	Early Childhood Developm
PHIL 12	Ethics, <u>or</u>	3.0	CSU, UC		Field Work
PHIL 12H SPCH 26	Ethics — Honors Interpersonal	3.0 3.0	CSU, UC CSU, UC		Total Units
	Communication, <u>or</u>				ses are acceptable for the Chil
SPCH 26H	Interpersonal Communication – Honors	3.0	CSU, UC		nts leading to the Child Develo
					nded Electives:
	Total Units	40.0		CHLD 50	Multicultural Education: A
	·····			CHLD 51	Early Literacy in Child Dev

Child Development Child Development Department Major 21315

This program introduces students to the study of young children and their education and prepares students for employment following graduation in the field of Child Development. An Associate in Science Degree and nine certificates are offered. Students desiring a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

64 Health, Safety and Nutrition 3.0 of Young Children Early Childhood Development 66 2.0 CSU Observation Early Childhood Development 1.0 CSU 66L Observation Laboratory Early Childhood Development 2.0 CSU 67 Participation 67L Early Childhood Development 1.0 CSU Participation Laboratory Children with Special Needs 3.0 CSU 68 Early Childhood Development 69 2.0 Field Work Seminar Guidance and Discipline in 1.0 84 **Child Development Settings** Early Childhood Development 1.0 91 Field Work **Total Units** 28.0 courses are acceptable for the Child Development irements leading to the Child Development Permit. mmended Electives: 50 Multicultural Education: Anti-Bias Perspective 51 Early Literacy in Child Development Language Arts & Art Media for Young Children CHLD 61 CHLD 62 Music and Motor Development for Young Children CHLD 63 Creative Sciencing and Math for

Young Children

Programs

ECD Programs

Administration of Child Development

Management/Marketing/Personnel for

Teacher, Parent, and Child Relationships

Infant/Toddler Care and Development

CHLD 71A

CHLD 71B

CHLD 72

CHLD 73

Section 7 39

Commercial Flight

Aeronautics and Transportation Department Major 20912

The Commercial Flight curriculum prepares students for careers as aircraft pilots as well as related ground occupations in aviation. Students have the opportunity for optional flight training with commensurate college credit. The pilot license is not required for graduation but it is desirable for career advancement.

This program prepares students for military and civilian aviation careers through transfer programs to Bachelor's Degree aviation curricula throughout the nation. With concurrent flight training, students may achieve the commercial pilot certificate and instrument rating simultaneously with the A.S. Degree.

Requirements for the Major *Required courses:*

neguneato			
AERO 23	Primary Pilot Ground School	4.0	CSU
AERO 24	Navigation	3.0	CSU
AERO 25	Commercial Pilot Ground School	3.0	CSU
AERO 26	Aviation Weather	3.0	CSU
AERO 27	Aviation Safety and Human Factors	3.0	CSU
AERO 28	Aircraft and Engines	3.0	CSU
AERO 29	Federal Aviation Regulations	2.0	CSU
AERO 30	Instrument Ground School	3.0	CSU
TRAN 17	Air Transportation	3.0	CSU
	Total Units	27.0	
Recommen	ded Electives:		
AERO 40	Flight		
AERO 40L	Flight Laboratory		
AERO 41	Basic Flight Simulator Laborat	ory	
AERO 58	Flight Instructor Ground Schoo	bl	
AIRT 41	Aircraft Recognition and Perfo	rmance	
CISB 11	Computer Information System	S	
complemen chosen fron professor of	ISB 11 Computer Information Systems he Commercial Flight faculty recommend that students omplement their studies with selected elective courses hosen from the list above. Students should meet with a rofessor of commercial flight to help them determine thich electives would best suit their career plans.		

Computer and Networking Technology Electronics and Computer

Technology Department Major 20725

The Computer and Networking Technology Major prepare students to enter the computer and networking fields as service technicians. The program provides foundations in basic electronics, computer servicing, operating systems, network/server servicing, security systems and customer relations. The student will be prepared to perform installation, software configuration and the maintenance, operation, troubleshooting and repair of computers and their associated networking software/hardware. In addition, the program prepares students to take the A+, Network+, Server+ and Security+ certification tests offered at testing centers throughout the country. These certifications are CompTIA sponsored and are worldwide-recognized industry benchmarks for the computer and networking technician. Multi-level certificates are also available.

Requirements for the Major Required courses:

Required co	urses:			
CNET 50	PC Servicing	4.0	0	
CNET 52	PC Operating Systems	4.0	0	
CNET 54	PC Troubleshooting	4.0	0	
CNET 56	Computer Networks	4.0	0	
CNET 60	A+ Certification Preparat	tion 3.0	0	
CNET 62	Network+ Certification Preparation	3.0	0	
CNET 64	Server+ Certification Preparation	3.0	0	
CNET 66	Security+ Certification Preparation	3.0	0	
ELEC 11	Technical Applications in Microcomputers, <u>or</u>	3.0	0	CSU
CISB 15	Microcomputer Applicati	ons 4.0	0	CSU, UC
ELEC 50A	Electronics Theory	2.0	0	CSU
ELEC 50AL	Electronics Laboratory	1.0	0	CSU
ELEC 50B	Electronics Theory	2.0	0	CSU
ELEC 50BL	Electronics Laboratory	1.0	0	CSU
ELEC 56	Digital Electronics	3.0	0	CSU
ELEC 56L	Digital Electronics Labora	ntory 1.0	0	CSU
TECH 60	Customer Relations for the Technician	1.0	0	
	Total Units	42.0-43.	D	

Recommended Electives:

- ELEC 51 Electronic Devices Theory
- ELEC 51L Electronic Devices Laboratory
- ELEC 74 Microprocessor Systems
- ELEC 74L Microprocessor Systems Laboratory
- ELMA 65A Mathematics of Electronics
- ELMA 65B Mathematics of Electronics

Computer Graphics Design/Photography Photographics Department Major 21005

This program is designed to prepare students for employment in the field of computer graphics/ photography. A variety of career opportunities are available in art, cinema, communications, industrial arts, graphics, and journalism. Students desiring a Bachelor's degree should consult with a counselor or advisor or the catalog of the institution they wish to attend to address transferability of courses.

Requirements for the Major *Required courses:*

negunea	oursest		
GRAP 1	Computer Graphics Lab	1.0	
GRAP 10	Photo Editing with Photoshop	3.0	
GRAP 12	Advanced Photo Editing with Photoshop	3.0	
GRAP 14	Digital Color Management	3.0	
GRAP 16	Digital Image Design with Illustrator & Freehand	3.0	
GRAP 18	Advanced Image Design — 3D Modeling Techniques	3.0	
GRAP 20	Applying Photos and Images in Multimedia	3.0	
GRAP 28	Digital Portfolio	2.0	
PHOT 10	Beginning Photography	3.0	CSU
PHOT 17	Photocommunication	3.0	
	Total Units	27.0	
Recommen	nded Electives:		
AHIS 1	Understanding the Visual Arts,	<u>or</u>	
ARTB 1	Understanding the Visual Arts		
COMP 10	Operating the Macintosh Comp	uter	
GRAP 24	Work Experience in Computer (Graphic	5
PHOT 1	Laboratory Studies: Black and Photography	White	
PHOT 2	Laboratory Studies: Color Phot	ograph	/
PHOT 4	Digital Cameras and Compositi	on	
PHOT 15	History of Photography		

Computer Network Administration and Security Management Computer Information Systems Department Major 20701

Computer Network Administration and Security Management is a two-year program leading to the Associate in Science (A.S.) Degree. It prepares individuals for employment in the computer/information technology field in such positions as network administrator and security management administrator.

The curriculum is intended to help students develop skills to design, administer and manage the heterogeneous corporate network with security emphasis. The courses examine and illustrate network security with various industry-leading network operating systems. Individual courses will assist students in preparing for related industry certification exams.

The main objective of the degree is to prepare students for employment following graduation. Students wishing a Bachelor's Degree should meet with a counselor or advisor for choices to transfer to available CSU joint degree programs.

Requirements for the Major *Required courses:*

	CISN 11	Telecommunications/ Networking Fundamentals	4.0	CSU
	CISN 24	Microsoft NT Network System Administration	4.0	CSU
	CISN 51	Cisco CCNA Networking Fundamentals and Routing	4.0	CSU
	CISS 21	Network Vulnerabilities and Countermeasures	4.0	CSU
	CISS 23	Network Analysis and NIDS	4.0	CSU
	CISS 25	Network Security and Firewalls	4.0	CSU
CSU, UC	SL 2	Linked Service Learning	1.0	CSU
	PLUS			
	Select one	(1) course from:		
	CISB 11	Computer Information Systems	3.5	CSU, UC
			4.0	CSU
	CISN 21	Windows Operating System	4.0	C30
	CISN 21 CISN 31	Windows Operating System Linux Operating System		CSU
		, ,		
5	CISN 31	Linux Operating System	4.0 4.0	CSU
5	CISN 31 CISN 34	Linux Operating System LINUX Networking and Security Novell Netware Systems	4.0 4.0 4.0	CSU CSU
5	CISN 31 CISN 34	Linux Operating System LINUX Networking and Security Novell Netware Systems Administration	4.0 4.0 4.0	CSU CSU
5	CISN 31 CISN 34	Linux Operating System LINUX Networking and Security Novell Netware Systems Administration	4.0 4.0 4.0	CSU CSU

Computer Programmer – C++ **Computer Information Systems Department** Major 20704

The Computer Information Systems major is a two-year program leading to the Associate in Science (A.S.) Degree It prepares individuals for employment in the computer field in such positions as application development, systems analysis, and telecommunications.

The courses in Computer Information Systems emphasize the development of applications in a business environment. They introduce the latest technologies including development of graphical user interfaces using object-oriented methodologies and client/server applications.

The program is designed to prepare students for employment following graduation. Students wishing a Bachelor's Degree (transfer program) should meet with a counselor or advisor to discuss transferability of courses. Additional recommended courses for transfer are BUSA 8 and BUSL 18.

Coursework includes a list of core courses and additional courses for each option.

The object oriented C++ language is available on many platforms. It is used extensively in the development of applications on microcomputers and is known for its power and flexibility.

Requirements for the Major Reauired core courses:

nequirea co	ore courses:			Requirer	nents for th
BUSA 7	Principles of Accounting –	5.0	CSU, UC	•	ore courses:
CISB 11 CISB 15	Financial Computer Information Systems Microcomputer Applications		CSU, UC CSU, UC	BUSA 7 CISB 11	Principles of A Financial Computer Info
CISM 11 CISM 14 CISM 21	Systems Analysis and Design Computer Information Systems Seminar Client/Server Architecture, <u>or</u>		CSU, UC	CISB 15 CISM 11 CISM 14	Microcompute Systems Analy Computer Info Seminar
CISP 21	Programming in Java	4.0	CSU, UC	CISM 21	Client/Server
Plus the fo	llowing courses:			Plus the fo	llowing courses
CISD 11	Database Management — Microcomputers	4.0	CSU	CISD 11	Database Man Microcompute
CISN 21 CISP 31 CISP 34	Windows Operating System Programming in C++ Advanced C++ Programming	4.0	CSU CSU, UC CSU, UC	CISD 14	Advanced Data Management Microcompute
	Total Units	40.0		CISD 21 CISD 31 CISD 32 CISD 40 CISD 50	SQL Server Database Man Oracle Forms a Database Desi Web Based Ap with PL/SQL
					Total Units

Computer Programmer – Database Management Systems Computer Information Systems Department Major 20706

The Computer Information Systems major is a two-year program leading to the Associate in Science (A.S.) Degree. It prepares individuals for employment in the computer field in such positions in application development. systems analysis, and telecommunications.

The courses in Computer Information Systems emphasize the development of applications in a business environment. They introduce the latest technologies including development of graphical user interfaces using object-oriented methodologies and client/server applications.

The program is designed to prepare students for employment following graduation. Students wishing a Bachelor's Degree (transfer program) should meet with a counselor or advisor to discuss transferability of courses. Additional recommended courses for transfer are BUSA 8 and BUSL 18.

Coursework includes a list of core courses and additional courses for each option.

This option concentrates on the design, development, and maintenance of relational databases on microcomputers. Applications are developed using power-user and programming techniques.

5.0 CSU, UC

Requirements for the Major of Accounting – Information Systems 3.5 CSU, UC outer Applications

		Total Units	46.0	
	CISD 50	Web Based Applications with PL/SQL	4.0	CSU
	CISD 40	Database Design	2.0	CC 11
	CISD 32	Oracle Forms and Reports	4.0	
	CISD 31	Database Management	4.0	
	CISD 21	SQL Server	4.0	
U, UC		Microcomputers, <u>or</u>		
U, UC		Management –		
U	CISD 14	Advanced Database	4.0	
		Microcomputers		
U	CISD 11	Database Management —	4.0	CSU
	Plus the fo	llowing courses:		
U, UC	CISM 21	Client/Server Architecture	4.0	
		Seminar		
	CISM 14	Computer Information Systems	4.0	
	CISM 11	Systems Analysis and Design	3.5	CSU, UC
U, UC	CISB 15	Microcomputer Applications	4.0	CSU, UC

Computer Programmer – Telecommunications **Computer Information Systems Department** Major 20708

The Computer Information Systems major is a two-year program leading to the Associate in Science (A.S.) Degree. It prepares individuals for employment in the computer field in such positions as application development. systems analysis, and telecommunications.

The courses in Computer Information Systems emphasize the development of applications in a business environment. They introduce the latest technologies, including development of graphical user interfaces using objectoriented methodologies and client/server applications.

The program is designed to prepare students for employment following graduation. Students wishing a Bachelor's Degree (transfer program) should meet with a counselor or advisor to discuss transferability of courses.

Course work includes a list of core courses and additional courses for each option.

The network option focuses on the communication of data between systems. Topics include network infrastructure, protocols, and the Internet.

Requirements for the Major Required core courses:

BUSA 7	Principles of Accounting — Financial	5.0	CSU, UC
CISB 11	Computer Information Systems	3.5	CSU, UC
CISB 15	Microcomputer Applications	4.0	CSU, UC
CISM 11	Systems Analysis and Design	3.5	CSU, UC
CISM 14	Computer Information Systems Seminar	4.0	
CISM 21	Client/Server Architecture	4.0	
Plus the fol	lowing courses:		
CISN 11	Telecommunications/ Networking Fundamentals	4.0	CSU
CISN 14	Advanced Telecommunications	4.0	
CISN 41	Novell Netware Systems Administration, <u>or</u>	4.0	CSU
CISN 24	Microsoft NT Network System Administration	4.0	CSU
CISW 11	Introduction to Internet Technologies	4.0	CSU
	Total Units	40.0	

Computer Programmer – Visual Basic **Computer Information Systems Department** Major 20709

The Computer Information Systems major is a two-year program leading to the Associate in Science (A.S.) Degree. It prepares individuals for employment in the computer field in such positions in application development. systems analysis, and telecommunications.

The courses in Computer Information Systems emphasize the development of applications in a business environment. They introduce the latest technologies including development of graphical user interfaces using object-oriented methodologies and client/server applications.

The program is designed to prepare students for employment following graduation. Students wishing a Bachelor's Degree (transfer program) should meet with a counselor or advisor to discuss transferability of courses. Additional recommended courses for transfer are BUSA 8 and BUSL 18.

Coursework includes a list of core courses and additional courses for each option.

Visual Basic is a leading development tool in the Windows environment and in client/server applications. This objected-based language is used to develop graphical user interfaces and to customize Windows.

Requirements for the Major Required core courses:

	CISP 11 CISP 14	Basic Programming Advanced Basic Programming	4.0 4.0	CSU, UC CSU, UC
	CISP 11	Basic Programming	4.0	50,00
		Danie Duo guo main g	4.0	
	CISN 21	Windows Operating System	4.0	CSU
	CISD 11	Database Management — Microcomputers	4.0	CSU
	Plus the f	ollowing courses:		
	CISM 21	Client/Server Architecture	4.0	
	CISM 14	Computer Information Systems Seminar	4.0	
	CISM 11	Systems Analysis and Design		CSU, UC
	CISB 15	Microcomputer Applications	4.0	CSU, UC
JC	CISB 11	Computer Information Systems	3.5	CSU, UC
JC JC	BUSA 7	Principles of Accounting – Financial	5.0	CSU, UC

Construction Inspection

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Architecture and Engineering Design Department Major 20920			
This program is intended to prepare students for employment following graduation. Students desiring a Bachelor's Degree (<i>transfer program</i>) should consult with a counselor or advisor to discuss transferability of courses.			
•	nents for the Major		
Required co	ourses:		
ARCH 12	Architectural Materials and Specifications	3.0	CSU
ARCH 14	Building and Zoning Codes	3.0	
INSP 17	Legal Aspects of Construction	3.0	CSU
INSP 70	Elements of Construction	3.0	CSU
INSP 71	Construction Estimating	3.0	CSU
INSP 87	Fundamentals of Construction Inspection	3.0	
	Total Units	18.0	
Recommen	ded Electives:		
ARCH 11	Architectural Drawing		

ARCH 11	Architectural Drawing
ARCH 15	Architectural Working Drawings – I
INSP 67	Reading Construction Drawings

Correctional Sciences Public Services Department Major 22103

Correctional Sciences is the application of law, social, and natural sciences to the social phenomenon of crime and delinquency. The discipline addresses definitions, causation, prevention, discovery, procedures, treatment and rehabilitation, quantification, and research in both criminal and civil aspects. This program is intended to prepare students for employment following graduation. Students desiring a Bachelor's Degree (*transfer program*) should consult with a counselor or advisor to discuss transferability of courses.

Requirements for the Major *Required courses:*

ADJU 68	Administration of Justice Report Writing	3.0	
CORS 10	Introduction to Correctional Sciences	3.0	CSU
CORS 15	Control and Supervision of the Offender	3.0	
CORS 20	Correctional Law	3.0	
CORS 25	Probation and Parole	3.0	
CORS 30	Ethnic Relations in Corrections	3.0	

PLUS						
Select four (4) courses from:						
ADJU 1	The Administration of Justice System	3.0	CSU, UC			
ADJU 2	Principles and Procedures of the Justice System	3.0	CSU			
ADJU 20	Principles of Investigation	3.0	CSU			
ADJU 38	Narcotics Investigation	3.0				
ADJU 59	Gangs in the Community/ Corrections	3.0	CSU			
CORS 35	Interviewing and Counseling in Corrections	3.0				
CORS 40	Crime and Delinquency	3.0				
CORS 45	The Violent Offender	3.0				
	Total Units	30.0				
Recommended Electives:						
PE-F 50	Physical Skills Preparation for Law Enforcement and Fire Scie	nce				
PE-F 51	Agility Testing Preparation for					

- PE-F 52 Fitness and Conditioning for Law Enforcement, Fitness and Conditioning for Law Enforcement, Fire Science and Forestry
- SPAN 66 Spanish for Fire and Police Personnel

The Correctional Sciences faculty recommend that students complement their studies with selected elective courses chosen from the list above. Students should meet with a professor of Correctional Sciences to help them determine which electives would best suit their career plans.

Desktop Publishing Office Technology Department Major 20711

This program is intended to prepare students for employment following graduation. Training in a variety of computer skills is emphasized. This program will afford career opportunities in businesses desiring desktop publishing skills or in starting your own business. Students desiring a Bachelor's Degree (*transfer program*) should consult with a counselor or advisor to discuss transferability of courses.

Requirements for the Major Required courses:

BUSO 5	Business English	3.0	
COMP 1A	Computer Keyboarding, <u>or</u>	2.0	CSU
COMP 1	Computer Keyboarding	4.0	CSU
COMP 11	Internet Research for Business	2.0	CSU
COMP 60	Desktop Publishing with	4.0	CSU
	InDesign or Pagemaker, <u>or</u>		

BUSO 26	Oral Communications for Business	3.0	
BUSO 25	Business Communications		CSU
ARTD 20	Design: Two Dimensional		CSU, UC
PLUS Select one	(1) course from:		
GRAP 10	Photo Editing with Photoshop	3.0	
COMP 65	Modifying Images for Desktop Publishing, <u>or</u>	4.0	
COMP 64	Desktop Publishing Seminar	2.5	
COMP 63	Adobe Illustrator for Desktop Publishers, <i>or</i>	4.0	
COMP 62	Desktop Publishing with QuarkXpress	4.0	

Educational Paraprofessional Psychology and Education Department Major 22117

This degree program in the field of education prepares paraprofessionals in a variety of areas, emphasizing working with children to enhance their learning development. Graduates will be able to assist classroom teachers in working with K-12 students, including students with special needs. This associate degree certifies that paraprofessionals are "highly qualified" according to current federal legislation.

Requirements for the Major *Required courses:*

CHLD 1	Child, Family and Community	3.0	CSU, UC
CHLD 10	Child Growth and	3.0	CSU, UC
	Development, <u>or</u>		
PSYC 14	Developmental Psychology	3.0	CSU, UC
CHLD 68	Children with Special Needs	3.0	CSU
EDUC 10	Introduction to Education	3.0	CSU, UC
EDUC 16	Aspects and Issues in	3.0	CSU, UC
	Teaching Service Learning		
ENGL 1A	Freshman Composition	3.0	CSU, UC
MATH 71	Intermediate Algebra	5.0	
	Total Units	23.0	
Recommen	ded Electives:		
CHLD 51	Early Literacy in Child Develop	ment	
CHLD 64	Health, Safety and Nutrition o	f Young	Children
LIT 40	Children's Literature		
PE 3	First Aid and CPR		

Electronics and Computer Engineering Technology Electronics and Computer Technology Department Major 20906

This curriculum starts with basic electronic components and circuitry, culminates with course work in electronic systems, and is characterized by advanced coursework in three major areas. These include microprocessors and interfacing, electronic communications, and industrial electronic controls. Students completing the program will have training in all the major areas of electronics and will possess ample skills to make them versatile employees. Nearly all labs have new, state-of-the-art equipment to provide the student with quality hands-on learning experiences.

This program is intended to prepare students for employment in electronic industries or for transfer into electronic and computer engineering technology or industrial technology programs at various universities in the CSU system. Many of the courses directly articulate to courses offered at the CSUs. Typical technician job classifications this program covers include field service technician, field engineer, computer service technician, customer service technician, communications technician, maintenance technician and electronics technician.

Three certificate programs are also available, an 8-10 unit certificate in Electronics Assembly and Fabrication, a one-year certificate in Electronics Technology, and a two-year certificate with the same title as the A.S. Degree. All students completing an Electronic A.S. Degree program are automatically eligible to receive, without further examination, the N.A.R.T.E. 3rd Class Technician License; and all students completing certificate programs are automatically eligible to receive, without further examination, the N.A.R.T.E. 4th Class Technician License.

Requirements for the Major *Required courses:*

ELEC 11	Technical Applications in Microcomputers	3.0	CSU
ELEC 12	Computer Simulation and Troubleshooting	2.0	
ELEC 50A	Electronics Theory	2.0	CSU
ELEC 50AL	Electronics Laboratory	1.0	CSU
ELEC 50B	Electronics Theory	2.0	CSU
ELEC 50BL	Electronics Laboratory	1.0	CSU
ELEC 51	Electronic Devices Theory	3.0	CSU
ELEC 51L	Electronic Devices Laboratory	1.0	CSU
ELEC 53	Communications Circuits Theory	3.0	

	Laboratory	1.0	
ELEC 54A	Industrial Circuits Theory	3.0	CSU
ELEC 54AL	Industrial Circuits Laboratory	1.0	CSU
ELEC 54B	Industrial Electronic Systems	2.0	CSU
ELEC 54BL	Industrial Electronic Systems Laboratory	1.0	CSU
ELEC 55	Microwave Communications	3.0	
ELEC 55L	Microwave Communications Laboratory	1.0	
ELEC 56	Digital Electronics	3.0	CSU
ELEC 56L	Digital Electronics Laboratory	1.0	CSU
ELEC 61	Electronic Assembly and Fabrication	2.0	CSU
ELEC 74	Microprocessor Systems	3.0	CSU
ELEC 74L	Microprocessor Systems Laboratory	1.0	CSU
ELMA 65A	Mathematics of Electronics	2.0	CSU
ELMA 65B	Mathematics of Electronics	2.0	CSU
TECH 60	Customer Relations for the Technician	1.0	
	Total Units	45.0	
Recommen	ded Electives:		
CISN 41	Novell/SUSE Linux Enterprise S Administration	erver	
CISP 11	Basic Programming		
CISP 31	Programming in C++		
COMP 1A	Computer Keyboarding		

Communications Circuits

FLFC 531

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- EDT 11 Technical Engineering Drawing I
- **Radio Telephone Communications** ELEC 76
- PHYS 2AG General Physics

Emergency Medical Services Medical Services Department Major 21210

Students who complete the required courses listed below for the Emergency Medical Technician-Paramedic (EMT-P) Certificate and who also complete the graduation requirements of Mt. San Antonio College will be awarded the Associate in Science Degree in Emergency Medical Services.

This Paramedic Program is accredited by CAAHEP (Committee on Accreditation of Allied Health Education *Programs*) and approved by the Los Angeles County Department of Health Services as meeting and exceeding the minimum standards as specified in Title 22 of the California Code of Regulations and the federal Department of Transportation national standard curriculum. It is designed to train paramedics to work on ambulances and in the fire service.

Required co	ourses:			
EMS 1	Fundamentals for Paramedics	4.0		
EMS 10	Anatomy and Physiology for Paramedics	2.0		
EMS 20	Emergency Cardiac Care for Paramedics	1.0		
EMS 30	Pharmacology for Paramedics	2.0		
EMS 40	Cardiology for Paramedics	5.0		
EMS 50	Paramedic Skills Competency	4.5		
EMS 60	EMS Theory for Paramedics	8.5		
EMS 70	Paramedic Clinical Internship	3.5		
EMS 80	Paramedic Field Externship	8.5		
	Total Units	39.0		
Recommen	ded Electives:			
ADJU 1	The Administration of Justice S	ystem		
FIRE 1	Fire Protection Organization			
PSYC 1A	Introduction to Psychology			
SOC 1	Sociology			
The Emergency Medical Services faculty recommend that students complement their studies with selected elective courses chosen from the list above. Students should meet with a professor of Emergency Medical Services to help them determine which electives would best suit their career plans.				
Special Information To remain in the program, students must maintain a grade of "C" (80%) or better in all courses, per state regulations. Before starting clinical rotations, students must pass a criminal background check.				
Upon successful completion of the required courses, students are granted a Certificate of Completion for the Paramedic Program. Students are then eligible for licensure by taking and passing both the National Registry Exam and County Paramedic accreditation exam.				

Requirements for the Major

Application Requirements and Entrance Procedures

Application Requirements:

In addition to meeting Mt. San Antonio College academic standards for admission, applicants must be in good standing and satisfy the following requirements:

- 1. Be an EMT-L currently certified in California.
- 2. Submit a letter on official stationery from a recognized EMS agency verifying completion of six (6) months of pre-hospital field experience as an EMT-I (approximately 1,200 hours) within the last two years.
- File a college application and be accepted as a student at Mt. San Antonio College.

- 4. Submit an application for the Paramedic Program to the Technology and Health Division Office (909) 594-5611, ext. 4750. All applications are dated upon receipt in the Technology and Health Division Office. The Paramedic Program begins three times per year, in August, January, and May and runs for 29 weeks.
- 5. Take the AWE (Assessment of Written English), the Mt. SAC Math Placement test, and the Degrees of Reading Power reading test at least ten working days before the state of the pre-course (EMS 1). Placement examinations will be individually assessed to determine eligibility. The placement test is administered by the Assessment Center. located in the Student Services Center. If required, arrange with the Center a day and a time to take the examination. The Assessment Center (909) 594-5611, ext. 4265, is open Monday through Friday.
- 6. Successful completion of EMS-1, Fundamentals for Paramedics.
- 7. Forward two official transcripts of all coursework completed (high school, EMT-I, Fire Science, and other than Mt. San Antonio College courses.) One transcript must be sent to the Technology and Health Division Office, the other to the Admissions and Records Office.
- **Note:** If the course(s) were taken and/or the degree obtained at Mt. San Antonio College, it is not necessary to request transcripts.
 - Indicate in the mailing address the program for which transcripts are being sent to the Technology and Health Division Office.

Example:

- Mt. San Antonio College Technology and Health Division Paramedic Program 1100 North Grand Avenue Walnut, CA 91789-1399
- 8. A physical examination, proof of certain immunizations, and a criminal background check are required of all candidates after acceptance to the program and before entrance into the clinical setting. Forms and information will be provided upon acceptance into the program. In addition, drug testing may be required as part of the physical examination and/or requested by the college or one of its agents.

Entrance Procedure:

- In determining eligibility, consideration will be given to the followina:
- 1. Completion of all admission requirements
- 2. EMS-related experience
- 3. Scores on the English assessment and math placement tests

4. Placement EMS-1, Fundamentals for Paramedics, and scores on college placement exam for English and math

Engineering Design Technology Architecture and Engineering Design Department Major 20913

This curriculum is recommended for those who wish to become an engineering technician, CADD operator/ designer or drafter in fields related to engineering, tool design, electronics, manufacturing, structural steel, civil, piping, aerospace, 3-D modeling, illustration, and computer animation. It provides fundamental knowledge of manufacturing processes as they relate to design problems and the techniques required by industry for design, presentation, detail, and assembly working drawings.

This program is intended to prepare students for employment following completion of courses or for retraining and upgrading skills. This program also offers transfer opportunities in related majors. Students desiring a Bachelor's Degree (transfer program) should consult with department faculty and a counselor or advisor to develop an individualized plan of transferable courses and math requirements.

Requirements for the Major Required courses:

	Total Units	37.0	
MFG 11	Manufacturing Processes I	2.0	CSU
ELEC 50BL	Electronics Laboratory	1.0	CSU
ELEC 50B	Electronics Theory	2.0	CSU
ELEC 50AL	Electronics Laboratory	1.0	CSU
ELEC 50A	Electronics Theory	2.0	CSU
EDT 28	Engineering CAD 3-D Illustration/Animation	3.0	CSU
EDT 26	Civil Engineering Technology and CAD	3.0	CSU
EDT 24	Engineering CAD 3-D Solids and Surfaces	3.0	CSU
EDT 20	Technical Descriptive Geometry	3.0	CSU
EDT 18	Engineering CAD Applications	4.0	CSU
EDT 16	Basic CAD and Computer Applications	4.0	CSU
EDT 14	Mechanical Design — Geometric Dimensioning and Tolerancing	3.0	CSU
EDT 12	Technical Engineering Drawing II	3.0	CSU
EDT 11	Technical Engineering Drawing I	3.0	CSU

Recommended	Electives:
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EDT 89 Engineering Design Technology Work Experience ENGR 8 Properties of Materials

Equipment Technology

Agricultural Sciences Department Major 20118

The courses in equipment technology are designed to enable students to prepare for a career in this essential and diverse profession. This degree is part of our comprehensive Agricultural Sciences program. Our program is unique in that most courses provide hands-on experience and are designed to give the student a combination of practical skills and technical knowledge. Students who intend to transfer should meet with a counselor or advisor to check the lower division requirements in the catalog of the college or university which they will attend and also the semester and year in which courses are offered.

This program is intended to prepare students to become technicians for entry level positions or skills enhancement in the operation, service, maintenance and repair of industrial and agricultural power equipment.

Listed below are the courses needed to satisfy major requirements. It is recommended that students consult with the department chairperson, counselor or advisor to file an educational plan. For additional information, call the Agricultural Sciences Department, ext. 4540 or visit the Mt. SAC Web site at www.mtsac.edu/instruction/ sciences/agriculture.

Requirements	for	the	Major
Required courses:			

AGAG 1	Food Production, Land Use and Politics – A Global Perspective	3.0	CSU, UC
AGAG 59	Work Experience in Agriculture, <u>or</u>	1.0	
AGAG 60	Work Experience in Agriculture, <u>or</u>	2.0	
AGAG 61	Work Experience in Agriculture, <u>or</u>	3.0	
AGAG 62	Work Experience in Agriculture	4.0	
AGOR 51	Tractor and Landscape Equipment Operations	3.0	CSU
AGOR 52	Hydraulics	3.0	CSU
AGOR 53	Small Engine Repair I	3.0	CSU
AGOR 54	Small Engine Repair II	3.0	CSU
AGOR 55	Diesel Engine Repair	3.0	CSU
AGOR 56	Engine Diagnostics	3.0	CSU

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	AGOR 57	Power Train Repair		3.0	
	AGOR 71	Landscape Construction Fundamentals		3.0	CSU
	AGOR 72	Landscape Hardscape Applications		3.0	CSU
	CISB 15	Microcomputer Applicati	ons	4.0	CSU, UC
		Total Units	35.0-3	8.0	

Escrow Management Business Administration Department

Major 20511

This program is intended to prepare students for employment following graduation. Students wishing a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

Requirements for the Major Reauired courses:

uises.					
Principles of Accounting — Financial, <u>or</u>	5.0	CSU, UC			
Bookkeeping – Accounting	5.0				
Principles of Business	3.0	CSU, UC			
Human Relations in Business	3.0	CSU			
Small Business Management	3.0				
Business Communications	3.0	CSU			
Real Estate Principles	3.0	CSU			
Legal Aspects of Real Estate	3.0				
Real Estate Finance	3.0				
Escrow Procedures I	3.0				
Escrow Procedures II	3.0				
Microcomputer Applications	4.0	CSU, UC			
Computer Keyboarding	4.0	CSU			
Total Units	40.0				
ded Electives:					
BUSA 8 Principles of Accounting – Managerial					
Business Law, <u>or</u>					
Business Law – Honors					
JSM 62 Human Resource Management					
	Principles of Accounting – Financial, <u>or</u> Bookkeeping – Accounting Principles of Business Human Relations in Business Small Business Management Business Communications Real Estate Principles Legal Aspects of Real Estate Real Estate Finance Escrow Procedures I Escrow Procedures I Escrow Procedures I Microcomputer Applications Computer Keyboarding Total Units ded Electives: Principles of Accounting – Mar Business Law, <u>or</u> Business Law – Honors	Principles of Accounting –5.0Financial, <u>or</u> 5.0Bookkeeping – Accounting5.0Principles of Business3.0Human Relations in Business3.0Small Business Management3.0Business Communications3.0Real Estate Principles3.0Legal Aspects of Real Estate3.0Escrow Procedures I3.0Escrow Procedures II3.0Microcomputer Applications4.0Computer Keyboarding4.0Total Units40.0ded Electives:Principles of Accounting – ManagerialBusiness Law, <u>or</u> Business Law – HonorsHuman Resource Management			

- BUSR 52 Real Estate Practice, or
- **Real Estate Practice Work Experience** BUSR 52D
- Income Tax Aspects of Real Estate Investments BUSR 57
- PSYC 1A Introduction to Psychology, or
- Introduction to Psychology Honors PSYC 1AH

Family And Consumer Sciences Consumer Science and Design Technologies Major 21309 This program provides students with the basic skills associated with the field of family and consumer sciences, which includes the needs of the home, the family, and its individual members. Students wishing a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses. **Requirements for the Major Required courses:** CHLD 10 Child Growth and 3.0 CSU, UC Development, or CHLD 10H Child Growth and 3.0 CSU, UC **Development – Honors** FASH 10 **Clothing Fundamentals** 3.0 CSU FASH 15 Fashion Strategies 3.0 CSU FASH 17 Textiles 3.0 CSU, UC FCS 41 Life Management 3.0 CSU FCS 80 Financial Planning, or 3.0 CSU BUSA 71 **Financial Planning** 3.0 CSU ID 100 Fundamentals of Interior 3.0 CSU Desian

Principles of Foods 3.0 CSU with Lab, or 3.0 CSU Meal Management

3.0 CSU.UC Essentials of Nutrition, or Essentials of Nutrition – Honors 3.0 CSU, UC Cultural and Fthnic Foods 3.0 CSU, UC **Total Units** 30.0

Recommended Electives:

NF 20

NF 62

NF 25

NF 25H

NF 28

- CHLD 1 Child, Family and Community
- FASH 12 Advanced Clothing
- ID 105 Interior Design Studio I
- ID 130 Applied Color and Design Theory

Fashion Design

Consumer Science and Design Technologies Major 21320

Exciting employment opportunities are available in both fashion design and costume design. In Southern California, the apparel industry and the entertainment industry support the largest number of employees and contribute significantly to the economy of the region. Expand your creative talents with this challenging major and find a career of your dreams. Students desiring a Bachelor's Degree should consult with a counselor or advisor and the transfer institution.

Requirements for the Major

Required c	ourses:				
FASH 8	Introduction to Fashion	3.0	CSU		
FASH 9	History of Costume and Fashion	3.0	CSU		
FASH 10	Clothing Fundamentals	3.0	CSU		
FASH 12	Advanced Clothing	3.0	CSU		
FASH 15	Fashion Strategies	3.0	CSU		
FASH 17	Textiles	3.0	CSU, UC		
FASH 20	Illustration for Fashion and Costume Design	3.0			
FASH 21	Basic Patternmaking	3.0	CSU		
FASH 22	Fashion Design By Draping	3.0			
FASH 23	Patternmaking II	3.0			
FASH 30	Fashion Design and Product Development I	3.0			
FASH 31	Fashion Design and Product Development II	3.0			
FASH 32	Fashion Design and Product Development III	3.0			
	Total Units	39.0			
Recommen	nded Electives:				
FASH 26	Fashion Computer Assisted Desig	gn			
FASH 81	Work Experience in Fashion				
FASH 82	Work Experience in Fashion				
FASH 83	Work Experience in Fashion				
FASH 90	Field Studies				
FASH 91	Field Studies – New York				
FASH 92	Field Studies – Fashion Capitals				
FCS 41	Life Management				
FASH 20, FASH 23, FASH 90, FASH 91, and FASH 95 may be taken two times for credit.					
Fashion Merchandising Consumer Science and Design Technologies					

Maior 21308

This program is intended to prepare students for employment in the fashion industry. A variety of career opportunities are available in retail merchandising, manufacturing, fashion, promotion, and self-employment. Students intending to pursue a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

Requirements for the Major Reauired courses:

FASH 8	Introduction to Fashion	3.0	CSU
FASH 9	History of Costume and Fashion	3.0	CSU
FASH 10	Clothing Fundamentals	3.0	CSU

The Fire Science major has been developed to offer

pre-employment education for the undergraduate who

desires to enter the field of fire science. It also provides

Fire Technology -

Major 22108

Administrative Law

Fire Technology Department

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Degree (<i>transfer program</i>) should consult with a courselor or advisor to discuss transferability of courses.								
	Requirements for the Major Required courses:							
BUSA 7	Principles of Accounting – Financial	5.0	CSU, UC					
CISB 11	Computer Information Systems	3.5	CSU, UC					
FIRE 1	Fire Protection Organization	3.0	CSU					
FIRE 2	Fire Prevention Technology	3.0	CSU					
FIRE 8	Fire Company Organization and Management	3.0	CSU					
FIRE 40	Fire Prevention 1A	2.0						
FIRE 41	Fire Prevention 1B	2.0						
	Total Units	21.5						

Fire Technology – Fire Management **Fire Technology Department** Maior 22109

The Fire Science major has been developed to offer pre-employment education for the undergraduate who desires to enter the field of fire science. It also provides the employed firefighter an opportunity for a professional education. Students intending to pursue a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses. **Requirements for the Major** Reauired courses: FIRF 1 Fire Protection Organization 30 (511

TINE I	The Protection organization	J.0 CJU
FIRE 2	Fire Prevention Technology	3.0 CSU
FIRE 3	Fire Protection Equipment and Systems	3.0 CSU
FIRE 4	Building Construction for Fire Protection	3.0 CSU
FIRE 5	Fire Behavior and Combustion	3.0 CSU
FIRE 6	Hazardous Materials/ICS	3.0

				iotai viiits	
Fire Hydraulics	3.0	CSU	Pacamma	nded Electives:	
Arson and Fire Investigation	3.0	CSU			
Fire Apparatus and Equipment	3.0	CSU	FIRE 2	Fire Prevention	
Wildland Fire Control	4.0	CSU	FIRE 40	Fire Prevention	
Basic Fire Academy	12.0		FIRE 41	Fire Prevention	
Physical Training for the Basic Fire Academy	2.5	CSU	SPAN 66	Spanish for Fire	
Total Units 23.5	- 39.0			chnology - unications	
ded Electives:				nology Depa	
Fire Instructor 1A			Major 22		
Fire Instructor 1B			The Fire So	cience major has	
Fire Management 1				yment education	
Fire Prevention 1A				enter the field of	
Fire Prevention 1B			the emplo	yed firefighter ar	
Fire Command 1A			education.	Students intend	
Fire Command 1B			Degree (tr	ansfer program) s	
Fire Investigation 1A			counselor or advisor to d		
Fire Investigation 1B			Require	ments for the	
Physical Skills Prenaration for Administration			Required of	ourses:	

CISP 11

FIRE 1

FIRE 8

FIRE 30

BUSA 7

CISB 11

FIRE 1

FIRE 8

FIRE 20

FIRE 21

FIRE 2

FIRE 30

FIRE 40

FIRE 41

SPAN 66

Financial

Fire Company Organization

Fire Prevention Technology

Spanish for Fire and Police Personnel

Fire Management 1

Fire Prevention 1A

Fire Prevention 1B

and Management

Fire Instructor 1A

Fire Instructor 1B

Total Units

Recommended Electives:

Basic Programming

and Management

Fire Management 1

Total Units

Fire Protection Organization

Fire Company Organization

1A

1B

Physical Skills Preparation for Administration of Justice and Fire Technology, or Agility Testing Preparation for Administration of Justice and Fire Technology, or Fitness and Conditioning for Administration of

Fire Technology – Administration

The Fire Science major has been developed to offer pre-employment education for the undergraduate who desires to enter the field of fire science. It also provides the employed firefighter an opportunity for a professional education. Students intending to pursue a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses. **Requirements for the Major Required courses:** BUSA 7

Fi FIRE 51 FIRE 60 Fi Fi FIRE 61 PE-F 50 PE-F 51 PE-F 52 Justice, Fire Technology, and Forestry SPAN 66 Spanish for Fire and Police Personnel

the employed firefighter an opportunity for a professional Technology education. Students intending to pursue a Bachelor's (e and Police Personnel - Administrative rtment been developed to offer for the undergraduate who FI fire science. It also provides n opportunity for a professional ing to pursue a Bachelor's should consult with a F uss transferability of courses. e Major Principles of Accounting -5.0 CSU, UC **Computer Information Systems** 3.5 CSU, UC Fire Protection Organization 3.0 CSU

4.0 CSU, UC

3.0 CSU

3.0 CSU

3.0 CSU

2.0

2.0

18.5

2.0

20.5

the employed firefighter an opportunity for a professional education. Students intending to pursue a Bachelor's Degree (transfer program) should consult with a Major 22106 counselor or advisor to discuss transferability of courses.

CISB 11

3.0 CSU

3.0 CSU

3.0 CSU

3.0 CSU

3.0 CSU

27.0

3.0

3.0 CSU, UC

FASH 15

FASH 17

FASH 30

FASH 62

BUSS 50

FASH 63

BUSS 33

FASH 66

BUSS 36

FASH 25

FASH 90

FASH 91

FASH 92

FCS 41

FCS 91

FCS 92

for credit.

Fire Technology

Major 22105

Fire Technology Department

Fashion Strategies

Development I

Merchandising

Total Units

Field Studies

Life Management

Consumer Sciences

Consumer Sciences

Recommended Electives:

Merchandising, or

Fashion Design and Product

Retail Store Management and

Advertising and Promotion, or

Advertising and Promotion

Principles of Marketing

Field Studies – New York

Field Studies – Fashion Capitals

Work Experience in Family and

Work Experience in Family and

FASH 90, FASH 91 and FASH 92 may be taken two times

The Fire Science major has been developed to offer

pre-employment education for the undergraduate who

Visual Merchandising Display

Fashion Computer-Assisted Drawing

Retail Store Management and 3.0 CSU

Textiles

PLUS

EMT 90

FIRE 7

FIRF 8

FIRE 9

FIRF 10

FIRE 11

FIRE 12

FIRE 86

PF-F 53

FIRE 20

FIRE 21

FIRF 30

FIRE 40

FIRE 41

FIRE 50

Recommende

Select two (2) courses from:

Management

Emergency Medical Technician 1 9.0

Fire Fighting Tactics and Strategy 3.0 CSU

Fire Company Organization and 3.0 CSU

Requirements for the Major Required courses:

FIRE 1	Fire Protection Organization	3.0 CSU
FIRE 2	Fire Prevention Technology	3.0 CSU
FIRE 3	Fire Protection Equipment and Systems	3.0 CSU
FIRE 4	Building Construction for Fire Protection	3.0 CSU
FIRE 5	Fire Behavior and Combustion	3.0 CSU
FIRE 6	Hazardous Materials/ICS	3.0

desires to enter the field of fire science. It also provides **Fire Technology Department**

Principles of Accounting – 5.0 CSU, UC Financial

Computer Information Systems 3.5 CSU, UC

3.0 CSU

Fire Fighting Tactics and

Plus the following courses:

FIRE 7

	Strategy		
FIRE 8	Fire Company Organization and Management	3.0	CSU
FIRE 10	Arson and Fire Investigation	3.0	CSU
FIRE 20	Fire Instructor 1A	2.0	
FIRE 21	Fire Instructor 1B	2.0	
FIRE 30	Fire Management 1	2.0	
FIRE 50	Fire Command 1A	2.0	
	Total Units	35.0	
Recommend	ded Electives:		
EMT 90	Emergency Medical Technician	I	
FIRE 40	Fire Prevention 1A		
FIRE 41	Fire Prevention 1B		
FIRE 51	Fire Command 1B		
FIRE 60	Fire Investigation 1A		
FIRE 61	Fire Investigation 1B		
PE-F 50	Physical Skills Preparation for		
	Law Enforcement and Fire Scier	nce	
PE-F 51	Agility Testing Preparation for Law Enforcement and Fire Scier	nce	
PE-F 52	Fitness and Conditioning for Lar Fire Science and Forestry	w Enfo	rcement,
CDANK			

SPAN 66 Spanish for Fire and Police Personnel

Fire Technology – Fire Prevention Fire Technology Department Major 22110

The Fire Science major has been developed to offer pre-employment education for the undergraduate who desires to enter the field of fire science. It also provides the employed firefighter an opportunity for a professional education. Students intending to pursue a Bachelor's Degree (*transfer program*) should consult with a counselor or advisor to discuss transferability of courses.

Requirements for the Major *Required courses:*

FIRE 1	Fire Protection Organization	3.0	CSU
FIRE 2	Fire Prevention Technology	3.0	CSU
FIRE 3	Fire Protection Equipment and Systems	3.0	CSU
FIRE 4	Building Construction for Fire Protection	3.0	CSU
FIRE 5	Fire Behavior and Combustion	3.0	CSU
FIRE 6	Hazardous Materials/ICS	3.0	
FIRE 10	Arson and Fire Investigation	3.0	CSU
FIRE 40	Fire Prevention 1A	2.0	

FIRE 41	Fire Prevention 1B	2.0
FIRE 42	Fire Prevention 1C	2.0
FIRE 43	Fire Prevention 2a	2.0
FIRE 44	Fire Prevention 2b	2.0
FIRE 45	Fire Prevention 2c	2.0
FIRE 68	Title 19/24 Workshop	1.0
	Total Units	34.0
Recomment	ded Electives:	
EMT 90	Emergency Medical Technician	I
PE-F 50	Physical Skills Preparation for Law Enforcement and Fire Scie	nce
PE-F 51	Agility Testing Preparation for Law Enforcement and Fire Scie	nce
PE-F 52	Fitness and Conditioning for La Fire Science and Forestry	w Enforcement
SPAN 66	Spanish for Fire and Police Pers	onnel

Fire Technology – Fire Training Fire Technology Department Major 22111

The Fire Science major has been developed to offer pre-employment education for the undergraduate who desires to enter the field of fire science. It also provides the employed firefighter an opportunity for a professional education. Students intending to pursue a Bachelor's Degree (*transfer program*) should consult with a counselor or advisor to discuss transferability of courses.

Requirements for the Major Required courses:

FIRE 1	Fire Protection Organization	3.0	CSU
FIRE 2	Fire Prevention Technology	3.0	CSU
FIRE 3	Fire Protection Equipment and Systems	3.0	CSU
FIRE 4	Building Construction for Fire Protection	3.0	CSU
FIRE 5	Fire Behavior and Combustion	3.0	CSU
FIRE 6	Hazardous Materials/ICS	3.0	
FIRE 7	Fire Fighting Tactics and Strategy	3.0	CSU
FIRE 20	Fire Instructor 1A	2.0	
FIRE 21	Fire Instructor 1B	2.0	
FIRE 22	Fire Instructor 2a	2.0	
FIRE 23	Fire Instructor 2b	2.0	
FIRE 24	Fire Instructor 2c	2.0	
FIRE 30	Fire Management 1	2.0	
	Total Units	33.0	

Recommended Electives: EMT 90 Emergency Medical Technician I FIRE 8 Fire Company Organization and Management FIRE 40 Fire Prevention 1A FIRE 41 Fire Prevention 1B FIRE 50 Fire Command 1A FIRE 51 Fire Command 1B FIRE 51 Fire Command 1B

- PE-F 50 Physical Skills Preparation for Law Enforcement and Fire Science PE-F 51 Agility Testing Preparation for
- Law Enforcement and Fire Science PE-F 52 Fitness and Conditioning for Law Enforcement.
- Fire Science and Forestry SPAN 66 Spanish for Fire and Police Personnel

Fire Technology – Private Fire Service Fire Technology Department

Major 22112

The Fire Science major has been developed to offer pre-employment education for the undergraduate who desires to enter the field of fire science. It also provides the employed firefighter an opportunity for a professional education. Students intending to pursue a Bachelor's Degree (*transfer program*) should consult with a counselor or advisor to discuss transferability of courses.

Requirements for the Major *Required courses:*

neguneu cu	<i>iui ses.</i>		
FIRE 1	Fire Protection Organization	3.0	CSU
FIRE 2	Fire Prevention Technology	3.0	CSU
FIRE 3	Fire Protection Equipment and Systems	3.0	CSU
FIRE 4	Building Construction for Fire Protection	3.0	CSU
FIRE 5	Fire Behavior and Combustion	3.0	CSU
FIRE 6	Hazardous Materials/ICS	3.0	
FIRE 8	Fire Company Organization and Management	3.0	CSU
FIRE 11	Fire Apparatus and Equipment	3.0	CSU
FIRE 40	Fire Prevention 1A	2.0	
FIRE 41	Fire Prevention 1B	2.0	
FIRE 42	Fire Prevention 1C	2.0	
	Total Units	30.0	
Recommen	ded Electives:		
EMT 90	Emergency Medical Technician	I	
FIRE 10	Arson and Fire Investigation		
FIRE 30	Fire Management 1		
	FIRE 1 FIRE 2 FIRE 3 FIRE 4 FIRE 5 FIRE 6 FIRE 8 FIRE 11 FIRE 40 FIRE 41 FIRE 42 FIRE 42 Recommen EMT 90 FIRE 10	FIRE 1Fire Protection OrganizationFIRE 2Fire Prevention TechnologyFIRE 3Fire Protection Equipment and SystemsFIRE 4Building Construction for Fire ProtectionFIRE 5Fire Behavior and CombustionFIRE 6Hazardous Materials/ICSFIRE 8Fire Company Organization and ManagementFIRE 11Fire Apparatus and EquipmentFIRE 40Fire Prevention 1AFIRE 41Fire Prevention 1BFIRE 42Fire Prevention 1CFIRE 43Fire Prevention 1CFIRE 44Fire Prevention 1CFIRE 45Fire Company Medical TechnicianFIRE 40Fire Prevention 1C	FIRE 2Fire Prevention Technology3.0FIRE 3Fire Protection Equipment and Systems3.0FIRE 4Building Construction for Fire Protection3.0FIRE 5Fire Behavior and Combustion3.0FIRE 6Hazardous Materials/ICS3.0FIRE 8Fire Company Organization and Management3.0FIRE 11Fire Apparatus and Equipment Organization3.0FIRE 40Fire Prevention 1A2.0FIRE 41Fire Prevention 1B2.0FIRE 42Fire Prevention 1C2.0FIRE 42Fire Prevention 1C2.0FIRE 43Fire Prevention 1C2.0FIRE 44Fire Prevention 1C2.0FIRE 45Fire Prevention 1C2.0FIRE 40Fire Prevention 1C2.0FIRE 41Fire Prevention 1C2.0FIRE 42Fire Prevention 1C2.0FIRE 43Fire Prevention 1C2.0FIRE 40Fire Prevention 1C2.0FIRE 41Fire Prevention 1C2.0FIRE 42Fire Prevention 1C2.0FIRE 43Fire Prevention 1C2.0FIRE 40Arson and Fire InvestigationFire

FIRE 60	Fire Investigation 1A
FIRE 61	Fire Investigation 1B
PE-F 50	Physical Skills Preparation for Law
	Enforcement and Fire Science
PE-F 51	Agility Testing Preparation for Law
	Enforcement and Fire Science
PE-F 52	Fitness and Conditioning for Law Enforcement,
	Fire Science and Forestry
SPAN 66	Spanish for Fire and Police Personnel

Floral Design

Agricultural Sciences Department Major 20113

The courses in floral design are designed to enable students to prepare for a career in this essential and diverse profession. The department offers a comprehensive agricultural sciences program which is unique in that most courses provide hands-on experience designed to give the student a combination of practical skills and technical knowledge. Students who intend to transfer should check the lower division requirements in the catalog of the college or university which they will attend and also the semester and year in which courses are offered.

Listed below are the courses needed to satisfy major requirements. Students may obtain certificates upon completion of required courses. It is recommended that all students consult with the department chairperson or faculty advisor to file an educational plan.

This program is intended to prepare students for employment following graduation. Students desiring a Bachelor's Degree (*transfer program*) should consult with the department chairperson, counselor or advisor to discuss transferability of courses. The curriculum is flexible in nature to allow for previous experience and specialization in a given area of agriculture and agricultural business.

Requirements for the Major *Required courses:*

AGAG 1	Food Production, Land Use and Politics – A Global Perspective	3.0	CSU, UC
AGOR 1	Horticultural Science	3.0	CSU
AGOR 2	Plant Propagation/ Greenhouse Management	3.0	CSU
AGOR 13	Landscape Design	3.0	CSU
AGOR 15	Interior Landscaping	3.0	
AGOR 25	Floral Design I	3.0	CSU
AGOR 26	Floral Design II	3.0	CSU
AGOR 27	Floral Design III	3.0	

,UC		

	Total Units	33.0-3	6.0	
BUSM 66	Small Business Managen	nent	3.0	
BUSM 20	Principles of Business		3.0	CSU, UC
AGOR 71	Landscape Construction Fundamentals		3.0	CSU
AGOR 53	Small Engine Repair I		3.0	CSU
	Procedures			<u>(</u> (1)
AGHE 84A	Applied Animal Health		1.0	
PLUS Soloct six (6) units from:			
סוווכ	of Livestock			
AGLI 97	Artificial Insemination		2.0	
AGLI 96	Animal Sanitation and Disease Control		3.0	CSU
AGLI 20	Horse Behavior and Train	ing	2.0	
AGLI 19	Horse Hoof Care		2.0	CSU
AGLI 18	Horse Ranch Manageme	nt	4.0	CSU
AGLI 16	Horse Production		4.0	CSU, UC
AGAN 94	Animal Breeding		3.0	
AGAN 2	Animal Nutrition		3.0	CSU
AGAG 62	Work Experience in Agric	ulture	4.0	

Work Experience in

Agriculture, <u>or</u>

AGAG 61

Hospitality and Restaurant Management

Consumer Science and Design Technologies Major 21307

This program provides students with an excellent background for a career in the hospitality and restaurant management industry. Students will have the education necessary for many entry-level positions. Students may wish to pursue a Certificate in Hospitality Management, Restaurant Management, Food Services, or Catering. This program is designed to articulate with the Collins School of Hospitality Management at Cal Poly Pomona, as well as other universities. Students wishing to transfer should consult with Hospitality and Restaurant Management faculty or counselor or advisor to discuss transfer options.

Note: HRM 65 is a required course in the Cal Poly program.

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3.0

3.0 CSU, UC AGOR 29 Ornamental Plants -Herbaceous AGOR 30 Ornamental Plants -3.0 CSU, UC Trees and Woody Shrubs AGOR 32 Landscaping and Nursery 3.0 CSU Management AGOR 91 Work Experience in Nursery 1.0 Operations, or Work Experience in Nursery AGOR 92 2.0 Operations, or AGOR 93 Work Experience in Nursery 3.0 Operations, or AGOR 94 Work Experience in Nurserv 4.0 Operations CISB 15 **Microcomputer Applications** 4.0 CSU.UC **Total Units** 38.0-41.0

General Business

Accounting and Management Department Major 20501

This program is intended to prepare students for employment following graduation. Students wishing a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses

Requirements for the Major Required courses:

BUSA 7	Principles of Accounting – Financial, <i>or</i>	5.0	CSU, UC	Requ Requi
BUSA 72	Bookkeeping – Accounting	5.0		ANAT
BUSL 18 BUSL 18H BUSM 10	Business Law, <u>or</u> Business Law – Honors Principles of Continuous Quality Improvement	3.0 3.0 3.0	CSU, UC CSU, UC	ANAT ANAT CHEM
BUSM 20 BUSM 60 BUSM 61	Principles of Business Human Relations in Business Business Organization and Management	3.0 3.0 3.0	CSU, UC CSU CSU	CHEM HT 1 HT 2
BUSM 62 BUSO 5 BUSO 25 BUSS 36 CISB 15	Human Resource Manageme Business English Business Communications Principles of Marketing Microcomputer Applications	3.0 3.0 3.0 3.0 4.0	CSU CSU CSU, UC	HT 10 HT 12 HT 14 HT 16
PLUS Select six (6) BUSA BUSC BUSL) units from: Business: Accounting Business: Economics Business: Law	3.0	CSU, UC CSU, UC CSU, UC	MICR MICR

				HT
	Total Units	42.0		
СОМР	Computer Applications	0.5 - 4.0	CSU	HT
CISB	Computer Information Systems: Beginning	2.0 - 4.0	CSU, UC	HT
BUSM BUSS	Business: Management Business: Sales, Merchandising and Marketing	1.0 - 4.0 1.0 - 4.0	CSU	PLU Sele HT

Histologic Technician Training Biological Sciences Department Maior 21211

This program provides on-campus and on-site technical training in the field of histotechnology, focusing on routine tissue sample preparation, special stains and techniques such as immunohistochemistry, and in situ hybridation. Training on campus will utilize samples routinely prepared in both clinical and research facilities. As part of their formal training, students of histotechnology will work through study guides provided by the American Society of Clinical Pathologists (ASCP) for its certification examination. Partnerships with local facilities will allow for work experience and internship sites, required for certification of histotechnology graduates, and will provide further training for those interested in research and/or careers in the private sector.

NAT 10B	Introductory Human Physiology, <u>or</u>	4.0	CSU, UC
NAT 36	Human Physiology	5.0	CSU, UC
NAT 35	Human Anatomy	5.0	CSU, UC
HEM 10	Chemistry for Allied Health Majors, <u>or</u>	4.0	CSU, UC
IEM 50	General Chemistry I	5.0	CSU, UC
Γ1	Introduction to Histotechnology	1.0	
Γ2	Scientific Basics for Histologic Technicians	3.0	
Г 10	Histology	3.0	
Г 12	Beginning Histotechniques	4.0	
Г 14	Advanced Histotechniques	4.0	
Г 16	Histochemistry/ Immunohistochemistry	4.0	
ICR 22	Microbiology, <u>or</u>	4.0	CSU, UC
ICR 1	Principles of Microbiology	5.0	CSU, UC

US lect four	(4) units from:		
17	Work Experience in Histotechnology	1.0	
18	Work Experience in Histotechnology	2.0	
ī 19	Work Experience in Histotechnology	3.0	
20	Work Experience in Histotechnology	4.0	
	Total Units	40.0-43.0	

Horse Ranch Management Agricultural Sciences Department Major 20102

The program of courses in Agriculture is designed to enable students to prepare for a career in this essential and diverse profession. The Department offers a comprehensive Agricultural Sciences Program and is unique in that most courses provide hands-on experience designed to give the student a combination of practical skills and technical knowledge. Students who intend to transfer should check the lower division requirements in the catalog of the college or university which they will attend and also the semester and year in which courses are offered.

The following programs list all courses needed to satisfy major requirements. Students may obtain certificates upon completion of required courses listed. It is recommended that all students consult with the department chairperson or faculty advisor to file an educational plan.

These programs are intended to prepare students for employment following graduation. Students desiring a Bachelor's Degree (transfer program) should consult with the department chairperson, counselor or advisor to discuss transferability of courses. The curriculum is flexible in nature to allow for previous experience and specialization in a given area of agriculture and agricultural business.

Requirements for the Major Required courses:

AGAB 20	Microcomputer Applications in Agriculture	3.0	CSU, UC
AGAG 59	Work Experience in Agriculture, <u>or</u>	1.0	
AGAG 60	Work Experience in Agriculture, <u>or</u>	2.0	

3.0 CSU

1.5 CSU

3.0 CSU

Requirements for the Major

Introduction to Hospitality

Food Safety and Sanitation

Commercial Food Preparation

Management of Hospitality

Personnel and Operations

Restaurant Cost Control

Introduction to Lodging

Hospitality Financial

Accounting I

Hospitality Law

Dining Room Service

Management

Required courses:

HRM 51

HRM 52

HRM 53

HRM 54

HRM 56

HRM 57

HRM 64

HRM 66

HRM 70

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PLUS

Select three (3) units from:

	Total Units	28.5	
NF 20	Principles of Foods with Lab	3.0	CSU
	Restaurant/Hospitality		
HRM 93	Work Experience in	3.0	CSU
HRM 62	Catering	3.0	CSU
HRM 61	Menu Planning	3.0	CSU

Recommended Electives:

HRM 91	Work Experience in Restaurant/Hospitality
HRM 92	Work Experience in Restaurant/Hospitality
HRM 94	Work Experience in Restaurant/Hospitality

Human Resource Management Accounting and Management Department Major 20530

The Human Resource Major and Certificate are intended to prepare students to enter the business world in the dynamic environment of human resources. Students become familiar with various approaches to business organization and the strategic nature of human resource management. Studies in human resource law, compensation systems, training, and development will provide the student a solid foundation from which to build a career in human resource management. Transfer students will gain a strong human resource management business elective base initiating further study in a variety of fields. Students active in the work arena will acquire new skills that are highly desirable in a fast-paced work force.

Require Required c	ID 120 ID 130					
ANTH 22	ANTH 22 General Cultural Anthropology 3.0 CSU, UC					
BUSA 70	Payroll and Tax Accounting	3.0		ID 150		
BUSL 19	Advanced Business Law	3.0	CSU, UC	ID 170		
BUSM 20	Principles of Business	3.0	CSU, UC	ID 180		
BUSM 60	Human Relations in Business	3.0	CSU	ID 190		
BUSM 61	USM 61 Business Organization and 3.0 CSU Management					
BUSM 62	Human Resource Management	3.0		ID 210		
BUSO 25	Business Communications	3.0	CSU	ID 215		
CISB 15	ID 230					
	ID 240A					

Interior Design

Consumer Science and Design Technologies Major 21301

The program is available as a Certificate (*Interiors Merchandising*), as an A.S. Degree Interior Design Assistant), and/or when combined with a Bachelor's Degree qualifies student for Professional Designation in Interior Design (*Professional Interior Designer*) (*see below*). Students desiring a Bachelor's Degree (*transfer program*) should consult with a counselor or advisor to discuss transferability of courses.

The Interior Design program works within a Regional Interior Design Program of nearby community colleges. Many of the required courses may also be offered at the following community colleges and will meet the requirements of the Mt.SAC program: Fullerton, Long Beach City, Orange Coast, and Saddleback. Regional course numbers all have an ID (*Interior Design*) prefix. Some Mt. San Antonio College courses are offered by other departments and are identified by Mt. San Antonio College prefixes and numbers. These courses have the regional ID course number in parenthesis following their course title.

Requirements for the Major Required courses:

ARCH 11	Architectural Drawing	3.0	CSU, UC
ARCH 13	Architectural Illustration	3.0	CSU, UC
ARCH 15	Architectural Working	3.0	CSU
	Drawings – I		
ARCH 16	Basic CAD and Computer	4.0	CSU, UC
	Application		
BUSS 35	Professional Selling	3.0	CSU
ID 100	Fundamentals of Interior Design	3.0	CSU
ID 105	Interior Design Studio I	2.0	CSU

ID 120	Interior Design Careers	2.0	CSU		
ID 130	Applied Color and Design Theory	4.0	CSU		
ID 150	Interior Materials and Products	4.0	CSU		
ID 170	Space Planning	3.0	CSU		
ID 180	History of Interior Architecture & Furnishings I	3.0	CSU		
ID 190	History of Interior Architecture & Furnishings II	3.0	CSU		
ID 210	Fundamentals of Lighting	3.0			
ID 215	Interior Design Studio II	2.0	CSU		
ID 230	Business and Professional Practice	3.0			
ID 240A	Interior Design Internship Seminar, <u>and</u>	1.0			
ID 240B	Interior Design Internship	1.0			
	Total Units	50.0			
Recommended Electives:					

ARCH 23Architectural PresentationsARTD 15ADrawing: BeginningBUSA 72Bookkeeping – AccountingFCS 41Life Management

Interior Design – Kitchen And Bath Design

Consumer Science and Design Technologies Major 21302

This program provides for immediate opportunity to seek employment in the area of kitchen and bath design. The program is available as an Associate in Science Degree or a Certificate. Both the major and certificate are endorsed by the National Kitchen and Bath Association. Students completing all courses for this program will earn four (4) NKBA credits toward eligibility for professional certification as a Certified Kitchen Designer or Certified Bath Designer. Please see a professor of Interior Design or contact the NKBA for professional certification eligibility requirements beyond this program.

Requirements for the Major Required courses:

ARCH 11	Architectural Drawing	3.0	CSU, UC
ARCH 15	Architectural Working Drawings — I	3.0	CSU
ARCH 16	Basic CAD and Computer Application	4.0	CSU, UC
ID 100	Fundamentals of Interior Design	3.0	CSU
ID 105	Interior Design Studio I	2.0	CSU

	ID 130	Applied Color and Design Theory	4.0	CSU
	ID 150	Interior Materials and Products	4.0	CSU
	ID 170	Space Planning	3.0	CSU
	ID 180	History of Interior Architecture & Furnishings I	3.0	CSU
	ID 190	History of Interior Architecture & Furnishings II	3.0	CSU
	ID 210	Fundamentals of Lighting	3.0	
	ID 215	Interior Design Studio II	2.0	CSU
	ID 230	Business and Professional Practice	3.0	
	ID 240A	Interior Design Internship Seminar	1.0	
	ID 240B	Interior Design Internship	1.0	
	ID 240C	Interior Design/Kitchen & Bath Internship	2.0	
	ID 250	Codes and Specifications for Interior Design	2.0	CSU
	ID 265	Interior Design Studio III — Kitchens	2.0	
	ID 275	Interior Design Studio IV — Bath Design	2.0	CSU
_	INSP 70	Elements of Construction	3.0	CSU
	INSP 71	Construction Estimating	3.0	CSU
		Total Units	56.0	
	Recommen	ded Electives:		
	ARCH 13	Architectural Illustration		

ARCH 13	Architectural Illustration
ARCH 23	Architectural Presentations
BUSA 72	Bookkeeping – Accounting
BUSM 60	Human Relations in Business
BUSM 66	Small Business Management
BUSS 35	Professional Selling
BUSS 50	Retail Store Management and Merchandising

International Business

Accounting and Management Department Major 20507

This program is intended to prepare students for employment following graduation. Students wishing a Bachelor's Degree (*transfer program*) should consult with a counselor or advisor to discuss transferability of courses.

.0 CSU, UC Requirements for the Major

BUSL 20	International Business Law	3.0	
BUSM 20	Principles of Business	3.0	CSU, UC
BUSM 50	World Culture:	3.0	
	A Business Perspective, <u>or</u>		

Requirements for the Major:							
*ANAT 35	Human Anatomy, <u>and</u>	5.0 CSU, UC					
*ANAT 36	Human Physiology, <u>or</u>	5.0 CSU, UC					
*ANAT 10A	Introductory Human Anatomy, <u>and</u>	4.0 CSU, UC					
*ANAT 10B	Introductory Human Physiology	4.0 CSU, UC					
*MICR 1	Principles of Microbiology, <u>or</u>	5.0 CSU, UC					
*MICR 22	Microbiology,	4.0 CSU, UC					
ENGL 1A	Freshman Composition	3.0 CSU, UC					
CHLD 10	Child Growth and Development, <u>or</u>	3.0 CSU, UC					
PSYC 14	Developmental Psychology	3.0 CSU, UC					
PSYC 1A	Introduction to Psychology	3.0 CSU, UC					
SPCH 1A	Public Speaking	3.0 CSU, UC					
	T-+-						

ТО

PROGRAMS LEADING AN ASSOCIATES DEGREE

Total Units 24.0 - 27.0

PSYC 1A must be completed prior to entrance into NURS 5: Psychiatric Nursing, CHLD 10, or PSYC 14 must be completed prior to entrance into NURS 6: Pediatric Nursina.

**Note:* Applicants planning to continue their education and enter a baccalaureate program in nursing will need to complete ANAT 35 and ANAT 36 instead of ANAT 10A and ANAT 10B and MICR 1 instead of MICR 22.

Requirements for the Associate Degree:

Students must develop an education plan with a counselor or educational advisor to complete college academic requirements for the AS degree. Contact the Counseling Department or Advising Center to schedule an appointment.

Selection Process:

Beginning Fall 2006, students applying for admission to the Nursing Program will be required to see either a counselor or educational advisor to verify their eligibility to enter the Nursing program.

Procedure:

3.0 CSU

3.0 CSU

3.0 CSU

7.0 CSU

5.0 CSU

1.0 CSU

4.0 CSU

2.0 CSU

28.0

Check, and drug testing prior to the start of class.)

Requirements for the Major

Maternity Nursing

Psychiatric Nursing

Medical-Surgical Nursing:

Medical-Surgical Nursing:

Medical-Surgical Nursing:

Integration/Regulation

Preceptorship in Nursing

Total Units

Circulation and Oxygenation

Nutrition/Elimination/

Leadership in Nursing

Pediatric Nursing

Surgical Asepsis

Required courses:

NURS 4

NURS 5

NURS 6

NURS 7

NURS 8

NURS 9

NURS 10

NURS 11

Students must complete all course prerequisites prior to requesting an appointment certifying readiness to enter into the Nursing program. Once eligibility has been established, students will enter on a first come first served basis.

The Eligibility Appointment:

1. Once a student has completed all course prerequisites, they may request an appointment with a counselor or educational advisor.

	centeral cartararranter	0.09) 0.0		
BUSM 51	Principles of Internationa	al 3.0		Select
	Business			ADJU
BUSM 52	Principles of Exporting a	nd 3.0		
	Importing		CC 11	ADJU
BUSM 61	Business Organization an Management	id 3.0	CSU	ADJU
BUSM 66	Small Business Managen	nent 3.0		ADJU
	5		<i>c</i> cu	ADJU
BUSS 36	Principles of Marketing	3.0	CSU	
PLUS				ADJU
Select one (1) course from:			CORS
BUSS 70	International Marketing	3.0		CORS
	Concepts			CORS
CHIN 1	Beginning Chinese	4.0	CSU, UC	
FRCH 1	Elementary French	4.0	CSU, UC	Daras
GERM 1	Elementary German	4.0	CSU, UC	Recon
ITAL 1	Elementary Italian	4.0	CSU, UC	PE-F 5
JAPN 1	Elementary Japanese	4.0	CSU, UC	PE-F 5
SPAN 1	Elementary Spanish	4.0	CSU, UC	ſĿ-I.
	Total Units	27.0-28.0		PE-F 5
Recommen	ded Electives:			CDAN
				SPAN

General Cultural Anthropology 3.0 CSU, UC

ANTH 22

BUSM 81	Work Experience in Business
BUSM 82	Work Experience in Business
BUSM 83	Work Experience in Business
BUSM 84	Work Experience in Business
BUSM 85	Special Issues in Business
BUSS 85	Special Issues in Marketing

Law Enforcement **Public Services Department** Maior 22102

This program is intended to prepare students for employment following graduation. Students desiring an Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

Requirements for the Major Reauired courses:

ADJU 1	The Administration of Justice System	3.0	CSU, UC
ADJU 2	Principles and Procedures of the Justice System	3.0	CSU
ADJU 3	Concepts of Criminal Law	3.0	CSU, UC
ADJU 4	Legal Aspects of Evidence	3.0	CSU
ADJU 5	Community Relations	3.0	CSU, UC
ADJU 68	Administration of Justice Report Writing	3.0	
	heport writing		

	PLUS Select four	(4) courses from:			4.	English 1A (<i>Writing Composition</i>) minimum of three (3) semester units with a minimum grade of C.
	ADJU 6 ADJU 13 ADJU 20 ADJU 38 ADJU 59 ADJU 74 CORS 30	Concepts of Enforcement Services Concepts of Traffic Services Principles of Investigation Narcotics Investigation Gangs in the Community/ Corrections Vice Control Ethnic Relations in Corrections	3.0 3.0 3.0 3.0 3.0	CSU CSU	 1. 2. 3. 	n-course requirements: An overall grade point average of 2.5 for the Human Anatomy, grade Human Physiology, and Microbiology prerequisite courses with no grade less than a "C" for each course and no more than one repetition of any one of these courses. A cumulative grade point average (GPA) of 2.5 for all college coursework completed. Eligibility for Math 51
	CORS 40 CORS 45	Crime and Delinquency The Violent Offender Total Units	3.0 3.0 30.0		4.	High school graduation or GED or academic degree from an accredited college/university in the United States. Possess a California Licensed Vocational Nurse license.
	Recommen	nded Electives:			б.	A physical examination, including specific
	PE-F 50 PE-F 51	Physical Skills Preparation for Law Enforcement and Fire Scier Agility Testing Preparation for	nce		7	immunizations is required of all candidates prior to the beginning of nursing classes. Current Level C-Provider CPR certification
	12151	Law Enforcement and Fire Scier	nce		7. 8.	Criminal background check
	PE-F 52 SPAN 66	Fitness and Conditioning for La Fire Science and Forestry Spanish for Fire and Police Perso		rcement,	o. 9.	Nursing 70 Role Transition must be completed with a credit grade prior to entrance into the program. (NURS 70, Role Transition – Due to the clinical
Licensed Vocational Nurse to RN Nursing Department Major 21201 The Mt. San Antonio College Nursing Program, approved and accredited by the California Board of Registered				component of NURS 70, applicants must submit their names to the Nursing Office for approval prior to enrollment in this course. Applicants must have completed all prerequisite courses prior to taking NURS 70. Applicants must provide proof of current Vocational Nurse License, physical, CPR card, Background		

and accredited by the California Board of Registered Nursing, is a two-year program designed to prepare men and women to give direct nursing care to clients in various practice settings. The program consists of course work in nursing, science, general education and clinical nursing practice at local hospitals and health agencies. Graduates of the program receive an Associate in Science Degree in Nursing and are eligible to take the NCLEX-RN examination leading to licensure as a Registered Nurse.

The Licensed Vocational Nurse is provided career mobility in the Nursing Program. The Licensed Vocational Nurse may choose between earning an Associate in Science Degree in Nursing or completing the LVN 30-Unit Option track which leads to a certificate, not a degree.

Prerequisite Courses:

- 1. Human Anatomy, including a laboratory component, a minimum of four semester units.
- 2. Human Physiology, including a laboratory component, a minimum of four semester units.
- 3. Microbiology, including a laboratory component, a minimum of four semester units.

- Students who have completed coursework at other colleges must bring the following information to their eligibility appointment:
 - a. Official transcripts of all college work completed at all colleges;
 - b. If the prerequisite courses were completed at another college, a course description and a copy of the course syllabus;
 - c. Students completing college coursework outside of the United will need to have their transcripts evaluated by an approved international transcript evaluation agency and must bring the final evaluation to their appointment (*students may be able to obtain a list of agencies from the Admissions Office*);
 - d. All students will need to bring official proof of high school graduation, GED, or college graduation from an accredited institution in the United States.

Appointments for Eligibility Verification will only be made during the Following Months:

September 1 - November 30 March 1 - May 30

Students should also be aware that once they have been admitted to the Nursing program and before beginning the clinical portion of the program, they will need to be able to pass both a criminal background check, including a screening by the Office of Inspector General for welfare or Social Security fraud, as well as testing negative for drug use.

All Applicants are Required to meet the Essential Functions for Success in the Nursing Program:

Physical Demands

- Perform prolonged, extensive, or considerable standing/walking, lifting positioning, pushing, and/or transferring patients
- Possess the ability to perform fine motor movements
 with hands and fingers
- Possess the ability for extremely heavy effort
 (*lift/carry 50 lbs. or more*)
- Perform considerable reaching, stooping, bending, kneeling, and crouching.

Sensory Demands

- <u>Color vision</u>: ability to distinguish and identify colors (may be corrected with adaptive devices)
- · Distance vision: ability to see clearly 20 feet or more
- <u>Depth perception</u>: ability to judge distance and space relationships

- Near vision: ability to see clearly 20 inches or less
- Hearing: able to recognize a full range of tones

Working Environment:

- May be exposed to infectious and contagious disease, without prior notification
- Regularly exposed to the risk of blood borne diseases
- Exposed to hazardous agents, body fluids and wastes
- Exposed to odorous chemicals and specimens
- Subject to hazards of flammable, explosive gases
 Subject to burns and cuts
- Contact with patients having different religious, culture, ethnicity, race, sexual orientation, psychological and physical disabilities, and under a wide variety of circumstances
- Handle emergency or crisis situations
- Subject to many interruptions
- Requires judgment/action which could result in death of a patient
- Exposed to products containing latex

English Language Skills

Although proficiency in English is not a criteria for admission into the nursing program, students are encouraged to be able to speak, write and read English to complete classes successfully and to ensure safety for themselves and others.

Livestock Management Agricultural Sciences Department Major 20103

The program of courses in Agriculture is designed to enable students to prepare for a career in this essential and diverse profession. The Department offers a comprehensive Agricultural Sciences Program and is unique in that most courses provide hands-on experience designed to give the student a combination of practical skills and technical knowledge. Students who intend to transfer should check the lower division requirements in the catalog of the college or university which they will attend and also the semester and year in which courses are offered.

The following programs list all courses needed to satisfy major requirements. Students may obtain certificates upon completion of required courses listed. It is recommended that all students consult with the department chairperson, faculty advisor, or counselor to file an educational plan.

These programs are intended to prepare students for employment following graduation. Students desiring a Bachelor's Degree (*transfer program*) should consult with the department chairperson or faculty advisor to discuss transferability of courses. The curriculum is flexible in nature to allow for previous experience and specialization in a given area of agriculture and agricultural business.

Requirements for the Major Required courses:

AGAB 20	Microcomputer Application	ns 3.0	CSU, UC
AGAG 1	Food Production, Land Use Politics – A Global Perspect		CSU, UC
AGAG 59	Work Experience in Agriculture, <u>or</u>	1.0	
AGAG 60	Work Experience in Agriculture, <u>or</u>	2.0	
AGAG 61	Work Experience in Agriculture, <u>or</u>	3.0	
AGAG 62	Work Experience in Agriculture	4.0	
AGAG 91	Agricultural Calculations	3.0	
AGAN 1	Animal Science	3.0	CSU, UC
AGAN 2	Animal Nutrition	3.0	CSU
AGAN 94	Animal Breeding	3.0	
AGLI 14	Swine Production	3.0	CSU
AGLI 16	Horse Production	4.0	CSU, UC
AGLI 17	Sheep Production	3.0	CSU
AGLI 30	Beef Production	3.0	CSU
AGLI 34	Livestock Judging and Selec	tion 2.0	CSU, UC
AGLI 96	Animal Sanitation and Disease Control	3.0	CSU
PLUS	Discuse control		
Select six (6	5) units from:		
AGOR 53	Small Engine Repair I	3.0	CSU
AGOR 71	Landscape Construction Fundamentals	3.0	CSU
BUSM 20	Principles of Business	3.0	CSU, UC
BUSM 66	Small Business Manageme	nt 3.0	
BUSS 35	Professional Selling	3.0	CSU
BUSS 36	Principles of Marketing	3.0	CSU
	Total Units 4	3.0-46.0	

Manufacturing Technology Aircraft Maintenance Technology & Manufacturing Department Major 20918

This curriculum is designed to prepare the student for entrance into the manufacturing field in one of the machining occupations, such as machinist (*manual*, *N/C*, and *CAD/CAM*), or machinist apprentice.

Graduates may enter the manufacturing field in areas dealing with production, research and development, tool and die construction, mold making, or computerized manufacturing. Laboratory practice utilizes industrial types of equipment and precision measuring instruments to provide training in the various machining occupations. Setup and tooling procedures and part verification upon completion of the metal removing process are covered. Instruction on all types of lathes, mills, grinders, and specialized equipment such as EDM and CNC is included. Supplementary instruction is also provided in bench work, layout, inspection process, blueprint reading, metal composition, heat treatment, assembly procedures, jig and fixture design, and construction. **Requirements for the Major Required courses:**

MFG 11 Manufacturing Processes I 2.0 CSU MFG 12 Manufacturing Processes II 2.0 CSU MFG 15 AutoCAD 2D 2.0 MFG 17 3-D CAD – Mechanical Modeling 2.0 MFG 19 Parametric Solid Modeling for 2.0 Manufacturing MFG 38 MasterCAM I 2.0 CSU MFG 38B Advanced MasterCAM 2.0 CSU MFG 38C MasterCAM Solids 2.0 MFG 39 SurfCAM I 2.0 CSU MFG 39B SurfCAM II 2.0 CSU **Blueprint Reading for** MFG 58 2.0 Manufacturing MFG 70 Technical Mathematics -2.0 CSU Manufacturing Applications Manual CNC (Computerized MFG 85 2.0 CSU Numerical Control) Operations PLUS Select two (2) courses from: MFG 25 Advanced Parametric Solid 2.0 Modeling for Manufacturing MFG 27 Autodesk Inventor 2.0 WELD 40 Introduction to Welding 2.0 CSU **Total Units** 30.0

Marketing Management Business Administration Department Major 20510

This program is intended to prepare students for employment following graduation. Students wishing a Bachelor's Degree (*transfer program*) should consult with a counselor or advisor to discuss transferability of courses.

Requiren Required co	nents for the Major urses:			MENT 58D	Advanced Medical-Surgical Nursing and Pharmacology	4.0	d.	Submit an application for the Mental Health/Psychiatric Technician Program to the	he/sh are in
BUSA 7	Principles of Accounting – Financial, <u>or</u>	5.0	CSU, UC	MENT 58L	for PT Advanced Medical-Surgical	1.5		Technology and Health Division Office (909) 594- 5611, ext. 4750. All applications are dated upon	that ir from o
BUSA 72	Bookkeeping – Accounting	5.0			Nursing for Psychiatric			receipt in the Technology and Health Division Office.	trainir
BUSM 20	Principles of Business	3.0	CSU, UC		Technicians Clinical	1 5		A program begins each fall and spring semester.	as par
BUSM 61	Business Organization and Management	3.0	CSU	MENT 70	Introduction to Psychiatric Technology	1.5	e.	Take the required English Placement Test (AWE). Eligibility for ENGL 68 is advised. If you have already	schoo requir
BUSO 25	Business Communications	3.0	CSU	MENT 70L	Introduction to Psychiatric	2.0		taken a college placement exam within the past two	i. Certai
BUSS 35	Professional Selling	3.0	CSU		Technology Clinical Technicians			years at another school, arrange to have your test	being
BUSS 36	Principles of Marketing	3.0	CSU	MENT 72	Nursing Care of the Developmentally Disabled	7.0		scores forwarded to the Technology and Health Division Office. (<i>If you were tested at Mt. San Antonio</i>	j. All stu
BUSS 70	International Marketing	3.0			Person			College, the office will obtain the test scores as long	backg educa
	Concepts			MENT 72L	Nursing Care of the	5.0		as an "Application for Admission" is on file with the	
BUSS 85	Special Issues in Marketing	2.0			Developmentally Disabled			Admissions and Records Office.) Testing is administered	Selection In determ
CISB 15	Microcomputer Applications	4.0	CSU, UC		Person – Clinical			by the Assessment Center, located in the Student	will be giv
PLUS				MENT 73L	Psychiatric Nursing for	5.0		Services Center. Arrangements should be made with	Placement
Select one (1) course from:				Psychiatric Technicians Clinical			them to schedule a day and time to take the English	The Co	
BUSC 1A	Principles of Economics – Macroeconomics, <u>or</u>	3.0	CSU, UC	MENT 73T	Psychiatric Nursing for	6.0		Placement Test, if required. The Assessment Center is open Monday through Friday. You may contact them	applicant prior to th
BUSC 1AH	Principles of Economics – Macroeconomics – Honors	3.0	CSU, UC	MENT 82	Psychiatric Technicians Work Experience in	2.0	f.	at (909) 594-5611, ext. 4265. Forward two official transcripts of all coursework	Numein
BUSC 1B	Principles of Economics –	3.0	CSU, UC	2010	Mental Health Technology			completed (high school, nursing school, and other than	Nursin
	Microeconomics, <u>or</u>			PSYC 1A	Introduction to Psychology	3.0 CSU, UC		Mt. San Antonio College courses.) One transcript must	Nursing Major 2
BUSC 1BH	Principles of Economics – Microeconomics – Honors	3.0	CSU, UC		Total Units	53.0		be sent to the Technology and Health Division Office and the other to the Admissions and Records Office.	The Mt. Sa
BUSC 17	Applied Business Statistics	3.0	CSU, UC	Special Info		ad far	g.	For students who possess a college degree, the English	and accred
BUSM 60	Human Relations in Business		CSU		general education courses need of the Associate in Science Deg			Placement Test is not required. However, it will be	Nursing, is
BUSO 5	Business English	3.0			its are listed in the Mt. San Anto			necessary for a student to obtain two official copies of the college transcript showing the degree issued. One	and wome various pra
	Total Units	32.0		Catalog, bu	t are not required to qualify the nia State Board Examination.	5		transcript must be sent to the Technology and Health Division Office and the other to the Admissions and	work in nu nursing pr

Mental Health Technology -**Psychiatric Technician** Mental Health Department Major 21208

Completion of coursework leads to an Associate in Science Degree. The Psychiatric Technology Program will prepare students to take the California State Licensure Examination for Psychiatric Technicians.

Requirements for the Major Required courses:

MENT 40	Introduction to Interviewing and Counseling, <u>or</u>	3.0
PSYC 40	Introduction to Interviewing and Counseling	3.0
MENT 56	Medical-Surgical Nursing for Psychiatric Technicians	9.0
MENT 56L	Clinical Experience	4.0

To remain in the program, students must maintain a "C" or better grade in all courses. The student will qualify to take the California State Board Examination upon completion of all the above courses, except MENT 82. **Entrance Requirements and Selection Procedures: Entrance Requirements:** In addition to meeting Mt. San Antonio College's academic standards for admission, applicants must be in good standing and satisfy the following requirements: a. Be a high school graduate or equivalent. (All students who have taken coursework outside of the United States must have their transcript evaluated. Foreign transcripts

- *will not be accepted without the evaluation.*) b. Be 18 years of age.
- c. File a college application and be accepted as a student at Mt. San Antonio College.

- Records Office.
- Note: Concerning Entrance Requirements 'e' and 'f', if the course(s) were taken and/or the degree obtained at Mt. San Antonio College, it is not necessary to request transcripts.

Indicate in the mailing address the program for which your transcript is being sent to the Technology and Health Division Office.

Example:

Mt. San Antonio College Technology and Health Division Psychiatric Technician Program 1100 North Grand Avenue Walnut, CA 91789-1399

h. A physical examination, including specific immunizations, and consent/disclaimer for Hepatitis A/B vaccine is required of all candidates prior to beginning classes. Students must provide proof that

she does not have Tuberculosis. These requirements in accordance with the healthcare agency policy t insures that students are in good health and free n communicable disease and able to perform their ning functions. Drug testing may also be required art of this physical examination. Proof of high ool graduation and malpractice insurance are uired of all candidates upon acceptance.

- tain convictions may prevent a candidate from ng licensed as a Psychiatric Technician.
- students may be required to complete a kground check prior to entering the clinical cation phase.

n Procedure:

mining eligibility of an applicant, consideration given to satisfactory scores on the English ent Test.

College will make every effort to notify the t of acceptance by mail no less than two months the beginning of a program.

ing g Department 21203

San Antonio College Nursing Program, approved redited by the California Board of Registered , is a two-year program designed to prepare men men to give direct nursing care to clients in practice settings. The program consists of course nursing, science, general education and clinical practice at local hospitals and health agencies. Graduates of the program receive an Associate in Science Degree in Nursing and are eligible to take the NCLEX-RN examination leading to licensure as a Registered Nurse.

Prerequisite Courses:

- 1. Human Anatomy, including a laboratory component, a minimum of four (4) semester units.
- 2. Human Physiology, including a laboratory component, a minimum of four (4) semester units.
- 3. Microbiology, including a laboratory component, a minimum of four (4) semester units.
- 4. English 1A (Writing Composition) minimum of three (3) semester units with a minimum grade of C.

Non-course requirements:

1. An overall grade point average of 2.5 for the Human Anatomy, Human Physiology, and Microbiology prerequisite courses with no grade less than a "C" for each course and no more than one repetition of any one of the courses.

- 2. A cumulative grade point average (GPA) of 2.5 for all college coursework completed.
- 3. Eligibility for Math 51
- High school graduation or GED or academic degree from an accredited college/university in the United States.
- 5. Criminal background check and drug screening must be completed prior to any patient contact.
- A physical examination, including specific immunizations is required of all candidates prior to the beginning of nursing classes. 7. Current Level C-Provider CPR certification

Regarding Licensure:

The California Board of Registered Nursing (BRN) protects the consumer by screening applicants for licensure in order to identify potentially unsafe practitioners. The BRN may deny applications for interim permits, temporary licenses, and permanent licensure, if the applicant has been found guilty of dishonesty, fraud or deceit, felony child abuse, sex offend crimes, acts involving narcotics, dangerous drugs or devices, assault and/or battery, and other crimes. Applicants who have questions regarding limitations related to licensure should contact the California Board of Registered Nursing at (916) 322-3350 or access its website at *www.rn.ca.gov.*

Requirements for the Major *Required courses:*

NURS 1A	The Nursing Process I	4.7	CSU
NURS 1B	The Nursing Process II	4.7	CSU
NURS 2	Pharmacology	2.0	CSU
NURS 3	Medical-Surgical Nursing: Locomotion/Sensation/ Integument/Oncology/ Immunology	3.5	CSU
NURS 4	Maternity Nursing	3.0	CSU
NURS 5	Psychiatric Nursing	3.0	CSU
NURS 6	Pediatric Nursing	3.0	CSU
NURS 7	Medical-Surgical Nursing: Nutrition/Elimination/ Surgical Asepsis	7.0	CSU
NURS 8	Medical-Surgical Nursing: Circulation and Oxygenation	5.0	CSU
NURS 9	Leadership in Nursing	1.0	CSU
NURS 10	Medical-Surgical Nursing: Integration/Regulation	4.0	CSU
NURS 11	Preceptorship in Nursing	2.0	CSU
	Total Units	43.0	

Requirements for the Major:							
*ANAT 35	Human Anatomy, <u>and</u>	5.0 CSU, UC					
*ANAT 36	Human Physiology, <u>or</u>	5.0 CSU, UC					
*ANAT 10A	Introductory Human Anatomy, <u>and</u>	4.0 CSU, UC					
*ANAT 10B	Introductory Human Physiology	4.0 CSU, UC					
*MICR 1	Principles of Microbiology, <u>or</u>	5.0 CSU, UC					
*MICR 22	Microbiology,	4.0 CSU, UC					
ENGL 1A	Freshman Composition	3.0 CSU, UC					
CHLD 10	Child Growth and Development, <u>or</u>	3.0 CSU, UC					
PSYC 14	Developmental Psychology	3.0 CSU, UC					
PSYC 1A	Introduction to Psychology	3.0 CSU, UC					
SPCH 1A	Public Speaking, <u>or</u>	3.0 CSU, UC					

Total Units 24.0 - 27.0

PSYC 1A must be completed prior to entrance into NURS 5: Psychiatric Nursing. CHLD 10, or PSYC 14 must be completed prior to entrance into NURS 6: Pediatric Nursing.

***Note:** Applicants planning to continue their education and enter a baccalaureate program in nursing will need to complete ANAT 35 and ANAT 36 instead of ANAT 10A and ANAT 10B and MICR 1 instead of MICR 22.

Requirements for the Associate Degree:

Students must develop an education plan with a counselor or educational advisor to complete college academic requirements for the AS degree. Contact the Counseling Department or Advising Center to schedule an appointment.

Application Process:

Beginning Fall 2006, students applying for admission to the Nursing Program will be required to see either a counselor or educational advisor to verify their eligibility to enter into the nursing admission lottery.

Procedure:

Students must complete all course prerequisites prior to requesting an appointment for certifying readiness to enter into the Nursing lottery process.

Course Prerequisites:

- a. ANAT 10A or 35, Human Anatomy;
- b. ANAT 10B or 36, Human Physiology
- c. MICRO 1 or 22, Microbiology
- d. ENGL 1A, Freshman Composition

Eligibility for entering the Nursing Admission Lottery will be based on the following performance criteria:

- A grade point average of 2.5 in Human Anatomy, Human Physiology and Microbiology. Each course must be completed with a minimum grade of "C", and no more than one repetition of one course;
- English composition must be completed with a grade of "C", or higher;
- A minimum cumulative grade point average of 2.5, in all college coursework completed at the time of certification;
- d. Students must have eligibility to enroll in MATH 51, Elementary Algebra.

Eligibility Appointment:

- 1. Once a student has completed all course prerequisites, they may request an appointment with a counselor or educational advisor.
- Students who have completed coursework at other colleges must bring the following information to their eligibility appointment:
 - a. Official transcripts of all college work completed at all colleges;
 - If the prerequisite courses were completed at another college, a course description and a copy of the course syllabus;
 - c. Students completing college coursework outside of the United United States will need to have their transcripts evaluated by an approved international transcript evaluation agency and must bring the final evaluation to their appointment (*students may be able to obtain a list of agencies from the Admissions & Records Office*).
 - d. All students will need to bring official proof of high school graduation, GED, or college graduation from an accredited institution in the United States.

Appointments for Eligibility Verification will only be made during the Following Months:

September 1 - November 30 March 1 - May 30

Students should also be aware that once they have been admitted to the Nursing program and before beginning the clinical portion of the program, they will need to be able to pass both a criminal background check, including a screening by the Office of Inspector General for welfare or Social Security fraud, as well as testing negative for drug use. *Note:* Final selection of students for each nursing class will be determined by lottery.

All Applicants are Required to meet the Essential Functions for Success in the Nursing Program:

Physical Demands

- Perform prolonged, extensive, or considerable standing/walking, lifting positioning, pushing, and/or transferring patients
- Possess the ability to perform fine motor movements with hands and fingers
- Possess the ability for extremely heavy effort (*lift/carry 50 lbs. or more*)
- Perform considerable reaching, stooping, bending, kneeling, and crouching.

Sensory Demands

- <u>Color vision</u>: ability to distinguish and identify colors (*may be corrected with adaptive devices*)
- Distance vision: ability to see clearly 20 feet or more
- <u>Depth perception</u>: ability to judge distance and space relationships
- Near vision: ability to see clearly 20 inches or less
- Hearing: able to recognize a full range of tones

Working Environment:

- May be exposed to infectious and contagious disease, without prior notification
- Regularly exposed to the risk of blood borne diseases
- Exposed to hazardous agents, body fluids and wastes
- Exposed to odorous chemicals and specimens
- Subject to hazards of flammable, explosive gases
- Subject to burns and cuts
- Contact with patients having different religious, culture, ethnicity, race, sexual orientation, psychological and physical disabilities, and under a wide variety of circumstances
- Handle emergency or crisis situations
- Subject to many interruptions
- Requires judgment/action which could result in death of a patient
- Exposed to products containing latex

English Language Skills

Although proficiency in English is not a criteria for admission into the nursing program, students are encouraged to be able to speak, write and read English to complete classes successfully and to ensure safety for themselves and others.

Ornamental Horticulture Agricultural Sciences Department Major 20119

The courses in ornamental horticulture are designed to enable students to prepare for exciting careers in the essential and diverse horticulture profession. Careers in nursery management, retail garden centers, landscape design, installation and maintenance, arboretum and botanic gardens, arboriculture, interior landscaping, education, and research are just some of the options.

This degree is part of our comprehensive agricultural sciences program. Our program is unique in that most courses provide hands-on experience and are designed to give the student combination of practical skills and technical knowledge. Students who intend to transfer should meet with a counselor or advisor to check the lower division requirements in the catalog of the college or university which they will attend and also the semester and year in which courses are offered.

Listed below are the courses needed to satisfy major requirements. It is recommended that students consult with the department chairperson, advisor or counselor to file an educational plan. For additional information, please call the Agricultural Sciences Department, ext. 4540, or visit the Mt. SAC Web site at www.mtsac.edu/ instruction/sciences/agriculture.

Requirements for the Major *Required courses:*

AGAG 1Food Production, Land Use and Politics – A Global PerspectiveAGOR 1Horticultural ScienceAGOR 2Plant Propagation/ Greenhouse Management	3.0 3.0	CSU, UC CSU CSU
AGOR 2 Plant Propagation/ Greenhouse Management	3.0	
Greenhouse Management		CSU
AGOR 13 Landscape Design	3.0	CSU
AGOR 24 Integrated Pest Management	3.0	CSU
AGOR 29 Ornamental Plants – Herbaceous	3.0	CSU, UC
AGOR 30 Ornamental Plants – Trees and Woody Shrubs	3.0	CSU, UC
AGOR 32 Landscaping and Nursery Management	3.0	CSU
AGOR 39 Turf Grass Production and Management	3.0	CSU
AGOR 50 Soil Science and Management	3.0	CSU, UC
AGOR 62 Landscape Irrigation – Design and Installation	3.0	CSU
AGOR 71 Landscape Construction Fundamentals	3.0	CSU

		Total Units	43.0-46	6.0	
	CISB 15	Microcomputer Applicati	ons	4.0	CSU, UC
	AGOR 75	Urban Arboriculture		3.0	
	AGOR 72	Landscape Hardscape Applications		3.0	CSU
	100 70	Management		~ ~	CC 11
	AGOR 63	Landscape Irrigation Syst	tems	3.0	
	AGOR 53	Small Engine Repair I		3.0	CSU
	AGOR 51	Tractor and Landscape Equipment Operations		3.0	CSU
	AGOR 40	Sports Turf Management		3.0	CC 11
	AGOR 26	Floral Design II		3.0	CSU
	AGOR 25	Floral Design I		3.0	CSU
	AGOR 15	Interior Landscaping		3.0	
	Select six (6) units from:			
	PLUS				
	AGOR 94	Work Experience in Nurse Operations	ery	4.0	
		Operations, <u>or</u>			
	AGOR 93	Operations, <u>or</u> Work Experience in Nurse	orv	3.0	
	AGOR 92	Work Experience in Nurse	ery	2.0	
-	AGOR 91	Work Experience in Nurse Operations, <u>or</u>	ery	1.0	

Paralegal/Legal – Bankruptcy Specialty Business Administration Department

Major 21401 The Paralegal/Legal – Bankruptcy Specialty program is intended to prepare students for employment as paralegals in both private and public sectors following graduation. The American Bar Association (ABA) By-Laws Section 21.12 uses the terms paralegal and legal assistant interchangeably referring to persons who, although not members of the legal profession, are qualified through education, training, or work experience and are employed or retained by a lawyer, law office, governmental agency, or other entity in a capacity or function which involves the performance, under the direction and supervision of an attorney, of specifically delegated substantive legal work. Paralegals/legal assistants must comply with the legal restrictions in the practice of law by nonlawyers.

The paralegal program stresses practical application and the development of job skills, as well as teaching legal theory. The program is designed to enhance the ability of students to reason, understand and apply correct principles of law by teaching analytical and critical thinking skills as opposed to rote learning. Graduates of the program will qualify for entry level employment and will possess skills for advancement and specialized areas in the paralegal profession. Students wishing a Bachelor's Degree (*transfer program*) should consult with a counselor or advisor to discuss transferability of courses.

The American Bar Association has reviewed the Paralegal/Legal Specialist Program and found it in compliance with the standards developed by the Standing Committee on Legal Assistant Programs. The Paralegal/Legal Specialty Program has been granted approval by the American Bar Association.

Requirements for the Major Required courses:

	Total Units	38.0	
PLGL 45	Creditors' Rights	3.0	CSU
PLGL 44	Bankruptcy Law	3.0	CSU
PLGL 41	Property Law	3.0	CSU
PLGL 39	Contract Law	3.0	CSU
PLGL 38	Employment and Ethical Issues in Paralegalism	2.0	
PLGL 37	Tort Law	3.0	CSU
	Procedures	2.0	<i>cc</i> 11
PLGL 35B	Automated Law Office	3.0	
PLGL 35A	Law Office Procedures	3.0	CSU
PLGL 33B	Civil Procedure-Trial and Post-Trial	3.0	CSU
PLGL 33A	Civil Procedure Pretrial	3.0	CSU
PLGL 31B	Advanced Legal Analysis and Writing	3.0	CSU
PLGL 31A	Legal Analysis and Writing	3.0	CC 11
PLGL 30	Introduction to Paralegal/Legal	3.0	CSU
			CC 11

The Paralegal/Legal faculty recommend that students complement their studies with selected elective courses, including PLGL 36 – Paralegal Internship.

Special Information:

The ABA does not recognize the following courses as meeting its definition of General Education: ARTB 14, ARTD 15A, ARTD 17A, ARTD 20, ARTD 25A, ARTS 30A, ARTS 40A, THTR 11, MUS 7, AD 3 and COUN 5. Students developing their educational plan should select another course from the Mt.SAC General Education area which will satisfy that area's General Education requirement.

Paralegal/Legal – Corporations/Business Specialty Business Administration Department Major 21405

The Paralegal/Legal – Corporations/Business Specialty program is intended to prepare students for employment as paralegals in both private and public sectors following graduation. The American Bar Association (ABA) By-Laws Section 21.12 uses the terms paralegal and legal assistant interchangeably referring to persons who, although not members of the legal profession, are qualified through education, training, or work experience and are employed or retained by a lawyer, law office, governmental agency, or other entity in a capacity or function which involves the performance, under the direction and supervision of an attorney, of specifically delegated substantive legal work. Paralegals/legal assistants must comply with the legal restrictions in the practice of law by nonlawyers.

The paralegal program stresses practical application and the development of job skills as well as teaching legal theory. The program is designed to enhance the ability of students to reason, understand and apply correct principles of law by teaching analytical and critical thinking skills as opposed to role learning. Graduates of the program will qualify for entry level employment and will possess skills for advancement and specialized areas in the paralegal profession. Students wishing a Bachelor's Degree (*transfer program*) should consult with a counselor or advisor to discuss transferability of courses.

The American Bar Association has reviewed the Paralegal/Legal Specialist Program and found it in compliance with the standards developed by the Standing Committee on Legal Assistant Programs. The Paralegal/ Legal Specialty Program has been granted approval by the American Bar Association.

Requirements for the Major *Required courses:*

	BUSL 18	Business Law, or	3.0	CSU, UC
	BUSL 18H	Business Law – Honors		CSU, UC
	BUSL 19	Advanced Business Law	3.0	CSU, UC
	BUSL 20	International Business Law	3.0	
	PLGL 30	Introduction to Paralegal/Legal	3.0	CSU
	PLGL 31A	Legal Analysis and Writing	3.0	
I	PLGL 31B	Advanced Legal Analysis and Writing	3.0	CSU
	PLGL 33A	Civil Procedure Pretrial	3.0	CSU
	PLGL 33B	Civil Procedure-Trial and Post-Trial	3.0	CSU

3.0 CSU

3.0 CSU

3.0 CSU

3.0

2.0

38.0

Recommended Electives:

The Paralegal/Legal faculty recommend that students complement their studies with selected elective courses, including PLGL 36B - Paralegal Internship and PLGL 50 -Comparative Law.

Special Information:

The ABA does not recognize the following courses as meeting its definition of General Education: ARTB 14, ARTD 15A, ARTD 17A, ARTD 20, ARTD 25A, ARTS 30A, ARTS 40A, DRMA 11, MUS 7, AD 3, and COUN 5. Students developing their educational plan should select that area's General Education requirements.

Paralegal/Legal – Criminal Specialty **Business Administration Department** Major 21402

The Paralegal/Legal – Criminal Specialty program is intended to prepare students for employment as paralegals in both private and public sectors following graduation. The American Bar Association (ABA) By-Laws Section 21.12 uses the terms paralegal and legal assistant interchangeably referring to persons who, although not members of the legal profession, are gualified through education, training, or work experience and are employed or retained by a lawyer, law office, governmental agency, or other entity in a capacity or function which involves the performance, under the direction and supervision of an attorney, of specifically delegated substantive legal work. Paralegals/legal assistants must comply with the legal restriction in the practice of law by nonlawyers.

The paralegal program stresses practical application and the development of job skills as well as teaching legal theory. The program is designed to enhance the ability of students to reason, understand and apply correct principles of law by teaching analytical and critical thinking skills as opposed to rote learning. Graduates of the program will gualify for entry level employment and will possess skills for advancement and specialized areas in the paralegal profession. Students wishing a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

The American Bar Association has reviewed the Paralegal/Legal Specialist Program and found it in compliance with the standards developed by the Standing Committee on Legal Assistant Programs. The Paralegal/ Legal Specialty Program has been granted approval by the American Bar Association.

Requirements for the Major

equ	iired	courses	5:			
					~	

PLGL 30 Introduction to Paralegal/Legal	3.0	
PLGL 30 Introduction to Paralegal/Legal	5.0	CSU
PLGL 31A Legal Analysis and Writing	3.0	
PLGL 31B Advanced Legal Analysis and Writing	3.0	CSU
PLGL 33A Civil Procedure Pretrial	3.0	CSU
PLGL 33B Civil Procedure-Trial and Post-Trial	3.0	CSU
PLGL 35A Law Office Procedures	3.0	CSU
PLGL 35B Automated Law Office Procedures	3.0	
PLGL 37 Tort Law	3.0	CSU
PLGL 38 Employment and Ethical Issues in Paralegalism	2.0	
PLGL 39 Contract Law	3.0	CSU
PLGL 48 Criminal Law and Procedures	3.0	CSU
PLGL 49 Evidence Law	3.0	CSU
Total Units	35.0	

Recommended Electives:

The Paralegal/Legal faculty recommend that students complement their studies with selected elective courses, including PLGL 36 - Paralegal Internship.

Special Information:

The ABA does not recognize the following courses as meeting its definition of General Education: ARTB 14, ARTD 15A, ARTD 17A, ARTD 20, ARTD 25A, ARTS 30A, ARTS 40A, THTR 11, MUS 7, AD 3 and COUN 5. Students developing their educational plan should select another course from the Mt. SAC General Education area which will satisfy that area's General Education requirements.

Paralegal/Legal -**Family Law Specialty Business Administration Department** Major 21403

The Paralegal/Legal – Family Law Specialty program is intended to prepare students for employment as paralegals in both private and public sectors following graduation. The American Bar Association (ABA) By-Laws Section 21.12 uses the terms paralegal and legal assistant interchangeably referring to persons who, although not

members of the legal profession, are gualified through education, training, or work experience and are employed or retained by a lawyer, law office, governmental agency, or other entity in a capacity or function which involves the performance, under the direction and supervision of an attorney, of specifically delegated substantive legal work. Paralegals/legal assistants must comply with the legal restrictions in the practice of law by nonlawyers.

The paralegal program stresses practical application and the development of job skills as well as teaching legal theory. The program is designed to enhance the ability of students to reason, understand and apply correct principles of law by teaching analytical and critica thinking skills as opposed to rote learning. Graduates of the program will qualify for entry level employment and will possess skills for advancement and specialized areas in the paralegal profession. Students wishing a Bachelor's degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

The American Bar Association has reviewed the Paralegal/Legal Specialist Program and found it in compliance with the standards developed by the Standing Committee on Legal Assistant Programs. The Paralegal/ Legal Specialty Program has been granted approval by the American Bar Association.

Requirements for the Major Required courses:

PLGL 30	Introduction to Paralegal/Legal	3.0	CSU
PLGL 31A	Legal Analysis and Writing	3.0	
PLGL 31B	Advanced Legal Analysis and Writing	3.0	CSU
PLGL 33A	Civil Procedure Pretrial	3.0	CSU
PLGL 33B	Civil Procedure-Trial and Post-Trial	3.0	CSU
PLGL 35A	Law Office Procedures	3.0	CSU
PLGL 35B	Automated Law Office Procedures	3.0	
PLGL 37	Tort Law	3.0	CSU
PLGL 38	Employment and Ethical Issues in Paralegalism	2.0	
PLGL 39	Contract Law	3.0	CSU
PLGL 41	Property Law	3.0	CSU
PLGL 42	Family Law	3.0	CSU
PLGL 43	Wills and Trusts	3.0	CSU
	Total Units	38.0	

Recommended Electives:

The Paralegal/Legal faculty recommend that students complement their studies with selected elective courses, including PLGL 36 - Paralegal Internship.

Special Information:

The ABA does not recognize the following courses as meeting its definition of General Education: ARTB 14, ARTD 15A, ARTD 17A, ARTD 20, ARTD 25A, ARTS 30A, ARTS 40A, THTR 11, MUS 7, AD 3 and COUN 5. Students developing their educational plan should select another course from the Mt.SAC General Education area which will satisfy that area's General Education requirement.

Paralegal/Legal -Landlord/Tenant Specialty **Business Administration Department** Major 21404

The Paralegal/Legal – Landlord/Tenant Specialty program is intended to prepare students for employment as paralegals in both private and public sectors following graduation. The American Bar Association (ABA) By-Laws Section 21.12 uses the terms paralegal and legal assistant interchangeably referring to persons who although not members of the legal profession, are gualified through education, training, or work experience and are employed or retained by a lawyer, law office, governmental agency, or other entity in a capacity or function which involves the performance, under the direction and supervision of an attorney, of specifically delegated substantive legal work. Paralegals/legal assistants must comply with the legal restrictions in the practice of law by nonlawyers.

The paralegal program stresses practical application and the development of job skills as well as teaching legal theory. The program is designed to enhance the ability of students to reason, understand and apply correct principles of law by teaching analytical and critical thinking skills as opposed to rote learning. Graduates of the program will gualify for entry level employment and will possess skills for advancement and specialized areas in the paralegal profession. Students wishing a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

The American Bar Association has reviewed the Paralegal/Legal Specialist Program and found it in compliance with the standards developed by the Standing Committee on Legal Assistant Programs. The Paralegal/Legal Specialty Program has been granted approval by the American Bar Association.

Requirements for the Major Reauired courses:

PLGL 30 Introduction to Paralegal/Legal 3.0 CSU PLGL 31A Legal Analysis and Writing 3.0 Advanced Legal Analysis PLGL 31B 3.0 CSU and Writing

Τ0

4.0

Advanced Professional

	Total Units	35.0	
PLGL 41	Property Law	3.0	CSU
PLGL 40	Landlord-Tenant Law	3.0	CSU
PLGL 39	Contract Law	3.0	CSU
PLGL 38	Employment and Ethical Issues in Paralegalism	2.0	
PLGL 37	Tort Law	3.0	CSU
1 202 55	Procedures	510	
PLGL 35	B Automated Law Office	3.0	
PLGL 35	Post-Trial A Law Office Procedures	3.0	CSU
PLGL 33		3.0	CSU
r Luc 33	A CIVILITIOCEULIE FIELIIAI	5.0	00

PLGL 33A Civil Procedure Pretrial

Recommended Electives:

The Paralegal/Legal faculty recommend that students complement their studies with selected elective courses, including PLGL 36 – Paralegal Internship.

Special Information:

The ABA does not recognize the following courses as meeting its definition of General Education: ARTB 14, ARTD 15A, ARTD 17A, ARTD 20, ARTD 25A, ARTS 30A, ARTS 40A, THTR 11, MUS 7, AD 3 and COUN 5. Students developing their educational plan should select another course from the Mt.SAC General Education area which will satisfy that area's General Education requirement.

Park and Sports Turf Management Agricultural Sciences Department Major 20116

The courses in park and sports turf management are designed to enable students to prepare for a career in this essential and diverse profession. This degree is part of our comprehensive Agricultural Sciences Program. Our program is unique in that most courses provide hands-on experience designed to give the student a combination of practical skills and technical knowledge. Students who intend to transfer should meet with a counselor or advisor to check the lower division requirements in the catalog of the college or university which they will attend and also the semester and year in which courses are offered.

This program is intended to prepare students to manage a park or sports facility and also for employment following graduation. Students will learn how to design, install and manage irrigation systems, set up and implement fertilizer and pest management programs, design and properly install a complete landscape (*including all plants and hardscape*), and properly identify and maintain trees, shrubs and turfgrasses. In addition, students will learn about personnel management, budgeting and other management topics.

Requirements for the Major					
Required c					
AGAG 1	Food Production, Land Use and Politics – A Global Perspective	3.0	CSU, UC		
AGOR 4	Park Management	3.0			
AGOR 5	Park Facilities	3.0			
AGOR 13	Landscape Design	3.0	CSU		
AGOR 24	Integrated Pest Management	3.0	CSU		
AGOR 29	Ornamental Plants — Herbaceous	3.0	CSU, UC		
AGOR 30	Ornamental Plants – Trees and Woody Shrubs	3.0	CSU, UC		
AGOR 39	Turf Grass Production and Management	3.0	CSU		
AGOR 51	Tractor and Landscape Equipment Operations	3.0	CSU		
AGOR 62	Landscape Irrigation — Design and Installation	3.0	CSU		
AGOR 63	Landscape Irrigation Systems Management	3.0			
AGOR 71	Landscape Construction Fundamentals	3.0	CSU		
AGOR 75	Urban Arboriculture	3.0			
AGOR 91	Work Experience in Nursery Operations, <i>o<u>r</u></i>	1.0			
AGOR 92	Work Experience in Nursery Operations, <i>o<u>r</u></i>	2.0			
AGOR 93	Work Experience in Nursery Operations, <u>or</u>	3.0			
AGOR 94	Work Experience in Nursery Operations	4.0			
CISB 15	Microcomputer Applications	4.0	CSU, UC		
	Total Units 44.0 -	47.0			

Doguinements for the Maior

3.0 (511

Pet Science Agricultural Sciences Department Major 20104

The program of courses in Agriculture is designed to enable students to prepare for a career in this essential and diverse profession. The Department offers a comprehensive Agricultural Sciences Program and is unique in that most courses provide hands-on experience designed to give the student a combination of practical skills and technical knowledge. Students who intend to transfer should meet with a counselor or advisor to check the lower division requirements in the catalog or the college or university they will attend and also the semester and year in which courses are offered.

		lowing programs list all courses			PHOT 11
to satisfy major requirements. Students may obtain certificates upon completion of required courses listed.					PHOT 12
It is recommended that all students consult with the					PHOT 12
		t chairperson, counselor or advis			PHOT 16
	educational				PHOT 18
		programs are intended to prepar			
		nent following graduation. Stud			PHOT 17
		Degree (<i>transfer program</i>) should nent chairperson, counselor or a			PHOT 20
		isferability of courses. The currici			PHOT 21
		nature to allow for previous expe			PHOT 28
		ization in a given area of agricul			
	agricultural	business.			PHOT 30
	Requiren	nents for the Major			
	Required co	ourses:			
	AGAB 20	Microcomputer Applications	3.0	CSU, UC	Recomme
		in Agriculture			AHIS 1
	AGAN 1	Animal Science		CSU, UC	ARTB 1
	AGAN 2	Animal Nutrition	3.0		GRAP 12
	AGAN 51	Animal Handling and Restraint	3.0	CSU	PHOT 1
	AGAN 94	Animal Breeding Animal Sanitation and	3.0	CSU	
	AGLI 96	Animal Sanitation and Disease Control	3.0	CSU	PHOT 2
	AGPE 70	Pet Shop Management	3.0		Dia
	AGPE 71	Canine Management	3.0		Physic
	AGPE 72	Feline Management	3.0		Physica Major 2
	AGPE 73	Tropical and Coldwater	2.0		This prog
		Fish Management			employm
	AGPE 74	Reptile Management	2.0		wishing a
	AGPE 76	Aviculture – Cage and	3.0		consult w
		Aviary Birds			education
		Total Units	34.0		Require

Photography Photographics Department Major 21002

This program is designed to prepare the student for employment in the field of photography. A variety of career opportunities are available in photography, art, cinema, communications, industrial arts, graphics, and journalism. Students desiring a Bachelor's Degree should consult with an advisor or catalog of the institution they wish to attend regarding transferability of courses.

Requirements for the Major Reauired courses:

GRAP 10	Photo Editing with Photoshop	3.0	
PHOT 10	Basic Digital and Film	3.0	CSU, UC
	Photography		

	Photography		
HOT 12	Photographic Alternatives	3.0	CSU, UC
HOT 15	History of Photography		CSU, UC
HOT 16	Fashion Photography, or	3.0	
HOT 18	Portraiture and Wedding Photography	3.0	
HOT 17	Photocommunication	3.0	
HOT 20	Color Photography	3.0	
HOT 21	Exploring Color Photography	3.0	
HOT 28	Photography Portfolio Development	2.0	
HOT 30	Commercial and Illustrative Photography	3.0	
	Total Units	33.0	
ecommend	led Electives:		
HIS 1	Understanding the Visual Arts,	<u>or</u>	
RTB 1	Understanding the Visual Arts		
RAP 12	Advanced Photo Editing with P	hotosh	ор
HOT 1	Laboratory Studies: Black and Photography	White	

PHOT 2 Laboratory Studies: Color Photography

Physical Education

Physical Education Department Major 20806

This program is designed to prepare students for employment in the field of Physical Education. Students wishing a Bachelor's Degree (*transfer program*) should consult with a counselor or advisor to file an educational educational plan and to discuss transferability.

Requirements for the Major					
Required courses:					
ANAT 35	Human Anatomy				
ANAT 36	Human Physiology				
NF 10	Nutrition for Personal Health				
	and Wellness, <u>or</u>				

Fitness for Living

PE 34

NF 25	Essentials of Nutrition, or	3.0	CSU, UC
NF 25H	Essentials of Nutrition – Honors	3.0	CSU, UC
PE 3	First Aid and CPR, <u>or</u>	3.0	CSU, UC
PE 5	Advanced First Aid/CPR/ Emergency Response	3.0	CSU
PE 17	Introduction to Physical Education	3.0	CSU, UC
PE 19	Introduction to Care/ Prevention of Activity/ Sports-Related Injuries	3.0	CSU, UC

3.0 CSU, UC

5.0 CSU, UC

5.0 CSU, UC

3.0 CSU

PLUS

	Total Units	28.6-41.5					
	Team Sports			9.			
PE-S	Physical Education:	0.5 - 1.0	CSU, UC	8.			
PE-L	Physical Education: Adaptive	0.5 - 1.0	CSU, UC				
PE-I	Physical Education: Individual	0.5 - 1.0	CSU, UC	7.			
	Fitness			6.			
PF-F	•	01-25	CSU UC				
PE-A		0.5 - 2.0	CSU, UC	5.			
	,						
DNCF	Dance: Activity	0.5 - 2.0	CSU, UC				
Select eight (8) courses from:							
PLUS				3.			
	Select eight DNCE PE-A PE-F PE-I PE-L	Select eight (8) courses from:DNCEDance: ActivityPE-APhysical Education: AquaticsPE-FPhysical Education: FitnessPE-IPhysical Education: IndividualPE-LPhysical Education: AdaptivePE-SPhysical Education: Team Sports	Select eight (8) courses from:DNCEDance: Activity0.5 - 2.0PE-APhysical Education:0.5 - 2.0Aquatics0.5 - 2.0PE-FPhysical Education:0.1 - 2.5FitnessPitness0.1 - 2.5PE-IPhysical Education:0.5 - 1.0Individual0.5 - 1.00.5 - 1.0PE-LPhysical Education:0.5 - 1.0Adaptive0.5 - 1.00.5 - 1.0PE-SPhysical Education:0.5 - 1.0Team Sports0.5 - 1.0	Select eight (8) courses from:DNCEDance: Activity0.5 - 2.0CSU, UCPE-APhysical Education:0.5 - 2.0CSU, UCAquatics0.1 - 2.5CSU, UCFitnessPE-IPhysical Education:0.5 - 1.0CSU, UCIndividual0.5 - 1.0CSU, UCPE-LPhysical Education:0.5 - 1.0CSU, UCAdaptive0.5 - 1.0CSU, UCPE-SPhysical Education:0.5 - 1.0CSU, UCTeam Sports0.5 - 1.0CSU, UC			

Psychiatric Technician to RN Mental Health Department Major 21209

The Mt. San Antonio College Nursing Program, approved and accredited by the California Board of Registered Nursing, is a two-year program designed to prepare men and women to give direct nursing care to clients in various practice settings. The program consists of course work in nursing, science, general education and clinical nursing practice at local hospitals and health agencies. Graduates of the program receive an Associate in Science Degree in Nursing and are eligible to take the NCLEX-RN examination leading to licensure as a Registered Nurse.

The Psychiatric Technician is provided career mobility into the Nursing Program to earn an Associate Degree in Nursina.

Prerequisite Courses:

- 1. Human Anatomy, including a laboratory component, a minimum of four semester units.
- 2. Human Physiology, including a laboratory component, a minimum of four semester units.
- 3. Microbiology, including a laboratory component, a minimum of four semester units.
- 4. English 1A (Writing Composition) minimum of three semester units with units with a minimum grade of C.

Non-course reauirements:

- 1. An overall grade point average of 2.5 for the Human Anatomy, Human Physiology, and Microbiology prerequisite courses with no grade less than a "C" for each course and no more than one repetition of any
- 2. A cumulative grade point average (GPA) of 2.5 for all college coursework completed.

·		
3.	Eligibility for MATH 51.	
4.	High school graduation or GED or academic degree	
	from an accredited college/university in the	
	United States.	
5.	Possess a current California Psychiatric Technician	

- License.
- Criminal background check and drug screening must be completed prior to any patient contact.
- A physical examination, including specific
- immunizations is required of all candidates prior to the beginning of nursing classes.
- Current Level C Provider CPR certification
 - Nursing 70 Role Transition must be completed with a credit grade prior to entrance into the program. (NURS 70: Role Transition – Due to the clinical component of NURS 70, applicants must submit their names to Nursing Office for approval prior to enrollment in this course. Applicants must have completed all prerequisite courses prior to taking NURS 70. Applicants must provide proof of current Psychiatric Technician License, physical, CPR card, Background Check, and drug *test prior to the start of class.*)

Requirements for the Major Reauired courses:

neganea co			
NURS 3	Medical-Surgical Nursing: Locomotion/Sensation/ Integument/Oncology/ Immunology	3.5	CSU
NURS 4	Maternity Nursing	3.0	CSU
NURS 6	Pediatric Nursing	3.0	CSU
NURS 7	Medical-Surgical Nursing: Nutrition/Elimination/ Surgical Asepsis	7.0	CSU
NURS 8	Medical-Surgical Nursing: Circulation and Oxygenation	5.0	CSU
NURS 9	Leadership in Nursing	1.0	CSU
NURS 10	Medical-Surgical Nursing: Integration/Regulation		CSU
NURS 11	Preceptorship in Nursing	2.0	CSU
	Total Units	28.5	
Requireme	nts for the Major:		
*ANAT 35	Human Anatomy, <u>and</u>	5.0	CSU, UC
*ANAT 36	Human Physiology, <u>or</u>	5.0	CSU, UC
*ANAT 10A	Introductory Human Anatomy, <u>and</u>	4.0	CSU, UC
*ANAT 10B	Introductory Human Physiology	4.0	CSU, UC
*MICR 1	Principles of Microbiology, <u>or</u>	5.0	CSU, UC
*MICR 22	Microbiology	4.0	CSU, UC

ENGL 1A CHLD 10	Freshman Composition Child Growth and Development or	3.0 CSU, UC 3.0 CSU, UC
PSYC 14	Developmental Psychology	3.0 CSU, UC
PSYC 1A	Introduction to Psychology	3.0 CSU, UC
SPCH 1A	Public Speaking, <u>or</u>	3.0 CSU, UC

Total Units 25.0 - 27.0

PSYC 1A must be completed prior to entrance into NURS 5: Psychiatric Nursing. CHLD 10, or PSYC 14 must be completed prior to entrance into NURS 6: Pediatric Nursing.

*Note: Applicants planning to continue their education and enter a baccalaureate program in nursing will need to complete ANAT 35 and ANAT 36 instead of ANAT 10A and ANAT 10B and MICR 1 instead of MICR 22.

Requirements for the Associate Degree:

Students must develop an education plan with a counselor or educational advisor to complete college academic requirements for the A.S. degree. Contact the Counseling Department or Advising Center to schedule an appointment.

Selection Process:

Beginning Fall 2006, students applying for admission to the Nursing Program will be required to see either a counselor or educational advisor to verify their eligibility to enter the Nursing program.

Procedure:

Students must complete all course prerequisites prior to requesting an appointment for certifying readiness to enter into the Nursing program. Once eligibility has been established, students will enter on a first come first served basis.

Eligibility Appointment:

- 1. Once a student has completed all course prerequisites, they may request an appointment with a counselor or educational advisor.
- 2. Students who have completed coursework at other colleges must bring the following information to their eligibility appointment:
 - a. Official transcripts of all college work completed at all colleges;
 - b. If the prerequisite courses were completed at another college, a course description and a copy of the course syllabus;
 - c. Students completing college coursework outside of the United United States will need to have their transcripts evaluated by an approved international transcript evaluation agency and must bring the

final evaluation to their appointment (students may be able to obtain a list of agencies from the Admissions & Records Office).

d. All students will need to bring official proof of high school graduation, GED, or college graduation from an accredited institution in the United States.

Appointments for Eligibility Verification will only be made during the Following Months:

September 1 - November 30 March 1 - May 30

Students should also be aware that once they have been admitted to the Nursing program and before beginning the clinical portion of the program, they will need to be able to pass both a criminal background check, including a screening by the Office of Inspector General for welfare or Social Security fraud, as well as testing negative for drug use.

All Applicants are Required to meet the Essential Functions for Success in the Nursing Program:

Physical Demands

- Perform prolonged, extensive, or considerable standing/walking, lifting positioning, pushing, and/or transferring patients
- Possess the ability to perform fine motor movements with hands and fingers
- Possess the ability for extremely heavy effort (lift/carry 50 lbs. or more)
- Perform considerable reaching, stooping, bending, kneeling, and crouching.

Sensory Demands

- Color vision: ability to distinguish and identify colors (may be corrected with adaptive devices)
- Distance vision: ability to see clearly 20 feet or more
- Depth perception: ability to judge distance and space relationships
- Near vision: ability to see clearly 20 inches or less
- Hearing: able to recognize a full range of tones

Working Environment:

- May be exposed to infectious and contagious disease, without prior notification
- Regularly exposed to the risk of blood borne diseases
- Exposed to hazardous agents, body fluids and wastes
- Exposed to odorous chemicals and specimens
- Subject to hazards of flammable, explosive gases
- Subject to burns and cuts

PROGRAMS LEADING TO AN ASSOCIATES DEGREE

•	Contact with patients having different religious,	R-TV 97C
	culture, ethnicity, race, sexual orientation, psychological and physical disabilities, and under a wide variety of circumstances	R-TV 97D

- Handle emergency or crisis situations
- · Subject to many interruptions
- Requires judgment/action which could result in death of a patient
- Exposed to products containing latex

English Language Skills

Although proficiency in English is not a criteria for admission into the nursing program, students are encouraged to be able to speak, write and read English to complete classes successfully and to ensure safety for themselves and others.

Radio Broadcasting: Behind the Scenes Art Department

Major 20606

The Radio Broadcasting Behind-the-Scenes Degree is designed for students who are interested in the nonperformance side of the broadcasting industry. Instruction in this major prepares students for entry-level jobs in a variety of areas including production, promotion, copywriting and management. Students also receive instruction in the business side of the industry and can further customize their program by selecting from a variety of optional courses. Students intending to pursue a Bachelor's Degree (*transfer program*) should consult with a counselor or advisor to discuss transferability of courses.

Requirements for the Major *Required courses:*

R-TV 01	Introduction to Broadcasting	3.0	CSU
R-TV 09	Broadcast Sales and Promotion	3.0	
R-TV 10	Radio Management and Programming	3.0	
R-TV 11A	Beginning Radio Production	3.0	CSU
R-TV 11B	Advanced Radio Production	3.0	CSU
R-TV 12	Commercial Copywriting	3.0	
R-TV 15	Broadcast Business Practices	3.0	
R-TV 16	Broadcast Career Preparation	3.0	
R-TV 97A	Radio/Entertainment Industry Seminar	1.0	
R-TV 97B	Radio/Entertainment Industry Internship	1.0	

Internship – KSAK Radio, <u>or</u>			
R-TV 97D	Entertainment Industry Internship – KSAK Radio	2.0	
PLUS			
Select nine	e (9) units from:		
R-TV 03	Sportscasting and Reporting	1.5	
R-TV 04	Broadcast News Field	3.0	
	Reporting		
R-TV 05	Radio-TV Newswriting	3.0	
R-TV 06	Broadcast Traffic Reporting	1.5	
R-TV 08	KSAK Radio Studio Operations	2.0	CSU
R-TV 17	Internet Radio Broadcasting	3.0	
R-TV 26	Legal Issues in	3.0	
	Entertainment Law		
R-TV 27	Radio Drama	3.0	

Entertainment Industry

10

36.0-37.0

Radio Broadcasting: On the Air Art Department Major 20605

Total Units

The Radio Broadcasting On-The-Air Degree is designed to prepare students for an entry-level job in a variety of performance areas of the broadcasting industry, including disc jockey, news anchor, sportscaster, and commercial voice-overs. Students also receive instruction in the business side of the industry and can further customize their program by selecting from a variety of optional courses. Students intending to pursue a Bachelor's Degree (*transfer program*) should consult with a counselor or advisor to discuss transferability of courses.

Requirements for the Major *Required courses:*

R-TV 01	Introduction to Broadcasting	3.0	CSU
R-TV 02	Radio and Television	3.0	CSU
	Announcing		
R-TV 05	Radio-TV Newswriting	3.0	
R-TV 07	Commercial Voice-Overs	3.0	
R-TV 11A	Beginning Radio Production	3.0	CSU
R-TV 11B	Advanced Radio Production	3.0	CSU
R-TV 15	Broadcast Business Practices	3.0	
R-TV 16	Broadcast Career Preparation	3.0	
R-TV 97A	Radio/Entertainment Industry	1.0	
	Seminar		
R-TV 97B	Radio/Entertainment Industry	1.0	
	Internship		

R-TV 97C	Entertainment Industry Internship — KSAK Radio,	, or	1.0	
R-TV 97D	Entertainment Industry Internship – KSAK Radio		2.0	
PLUS				
Select nine	(9) units from:			
R-TV 03	Sportscasting and Repor	ting	1.5	
R-TV 04	Broadcast News Field Re	porting	3.0	
R-TV 06	TV 06 Broadcast Traffic Reporting		1.5	
R-TV 08	KSAK Radio Studio Operations		2.0	CSU
R-TV 09	Broadcast Sales and Pron	notion	3.0	
R-TV 10	Radio Management and Programming		3.0	
R-TV 12	Commercial Copywriting		3.0	
R-TV 17	Internet Radio Broadcast	ing	3.0	
R-TV 26	Legal Issues in Entertainment Law		3.0	
R-TV 27	Radio Drama		3.0	
	Total Units	36.0-3	7.0	
Recomment	ded Electives:			

ANIM 115 Storyboarding

Radiologic Technology Radiologic Technology Department Major 21206

The course of study in Radiologic Technology offered at Mt. San Antonio College and its affiliated hospitals will prepare students to be certified radiologic technologists. Students will gain knowledge and understanding of the diagnostic uses of x-ray, as well as the technical skills to use x-ray equipment in both laboratory and clinical settings. The courses are developed to enable students to operate x-ray equipment, assist in the diagnosis of disease, and to observe proper medical ethics. Students will learn the nature of radiation, the principles of electricity, the structure of x-ray machines, and the operation of a clinical x-ray department.

To remain in the program, students must maintain a grade of "C" or better in all courses.

Upon completion of the Associate in Science Degree in Radiologic Technology, graduates are eligible to apply for the registry examination through the American Registry of Radiologic Technologists and the California Certification of Radiologic Technology.

Requirements for the Major Required courses:						
ANAT 10A	Introductory Human Anatomy	4.0	CSU, UC			
COMP 10	Operating the Macintosh Computer	1.5	CSU			
MEDI 90	Medical Terminology	3.0	CSU			
RAD 30	Radiographic Pathology	1.5				
RAD 31	Fluoroscopy	2.0				
RAD 50	Radiologic Technology	3.0	CSU			
RAD 52A	Techniques of Radiologic Technology	4.5	CSU			
RAD 52B	Techniques of Radiologic Technology	2.5	CSU			
RAD 53	Techniques of Radiologic Technology	5.0	CSU			
RAD 54	Techniques of Radiologic Technology	3.0	CSU			
RAD 55A	Techniques of Radiologic Technology	7.0	CSU			
RAD 55B	Techniques of Radiologic Technology	2.5	CSU			
RAD 56	Techniques of Radiologic Technology	7.0	CSU			
RAD 57	Techniques of Radiologic Technology	4.0	CSU			
RAD 61A	Theory of Radiologic Technology	4.0	CSU			
RAD 61B	Radiographic Positioning	3.0	CSU			
RAD 61C	Radiologic Technology Seminar	1.0	CSU			
RAD 62A	Theory of Radiologic Technology	4.0	CSU			
RAD 62B	Radiographic Positioning	3.0	CSU			
RAD 62C	Radiologic Technology Seminar	1.0	CSU			
RAD 63	Theory of Radiologic Technology	4.0	CSU			
RAD 64	Theory of Radiologic Technology	4.0	CSU			
RAD 91	Nursing Procedures in	2.0	CSU			
	Radiologic Technology					
	Total Units	76 5				

Total Units 76.5

ANAT 10A, and MEDI 90 may be taken prior to RAD 50.

Entrance Requirements:

In addition to meeting Mt. San Antonio College's academic standards for admission, applicants must be in good standing and satisfy the following requirements:

- a. Applicant must be 18 years of age upon entrance into the program.
- b. High school graduate or equivalent.
- c. File a college application and be accepted as a student at Mt. San Antonio College.

- d. After completion of prerequisites, submit an application for the Radiologic Technology Program to the Technology and Health Division Office (909) 594-5611, ext. 4750. All applications are dated upon receipt in the Technology and Health Division Office. A program begins each summer session.
- Take the college placement examination which is used as an indicator. If you have already taken a college placement exam within the past two years at another school, arrange to have your scores forwarded to the Technology and Health Division Office. (If you were tested at Mt. San Antonio Colleae, the Technoloav and Health Division Office will obtain the test scores as long as an "Application for Admission" is on file with the Admissions and Records Office.) Arrangements should be made with the Service Center to schedule a date and time to take the college placement examination if required. The Assessment Center is open Monday through Friday. You may contact them at (909) 594-5611, ext. 4265.
- Complete the following prerequisite courses with a minimum grade of "C" in each course:
 - 1. General High School Algebra (one year), or Introductory College Algebra (one semester) or MATH 51 – Elementary Algebra, or equivalent;
- 2. General High School Chemistry (one year), or Introductory College Chemistry (one semester), or CHEM 10, Chemistry for Allied Health Chemistry, or equivalent.

Students must complete prerequisite courses before applying to the program.

- Forward two official transcripts of all coursework a. completed (high school, nursing school, and other than Mt. San Antonio College courses). One transcript must be sent to the Technology and Health Division Office. and the other to the Admissions and Records Office.
- For students who possess a college degree, the English h. placement test is not required. However, it will be necessary for a student to obtain two official copies of the college transcript showing the degree issued. One official transcript must be sent to the Technology and Health Division Office, and the other to the Admissions and Records Office.

If the course(s) were taken and/or the degree obtained at Mt. San Antonio College, it is not necessary to request transcripts.

i.	Technology and Health Division Radiologic Technology Program 1100 North Grand Avenue Walnut, CA 91789-1399 A physical examination, certain immunizations, and malpractice insurance are required of all candidates after acceptance to the program and before entrance into the clinical setting. Drug testing will be required as part of the physical examination for all radiologic technology students. Forms and information will be provided at that time. All students may be required to complete a	BUSO 25 BUSR 50 BUSR 51 BUSR 52 BUSR 52 BUSR 53 BUSR 54 BUSR 55 BUSS 36 CISB 15	Business Communications Real Estate Principles Legal Aspects of Real Estate Real Estate Practice, <u>or</u> Real Estate Practice Work Experience Real Estate Finance Real Estate Appraisal Real Estate Economics Principles of Marketing Microcomputer Applications	3.0 3.0 3.0 4.0 3.0 3.0 3.0 3.0 3.0	CSU CSU CSU CSU, UC
J.	background check prior to entering the clinical education phase.		Total Units 34.0	- 35.0	
k.	An orientation with the Radiologic Technology		ded Electives:		
	Department will be held during the spring semester.	BUSA 7	Principles of Accounting – Financial, <i>or</i>		
	Please contact the Technology and Health Division	BUSA 11	· <u> </u>		
	Office for date and time of orientation.		Fundamentals of Accounting, <u>a</u>	<u>''</u>	
I.	Make an appointment with an educational advisor to	BUSA 72	Bookkeeping – Accounting		
	review general education requirements for graduation.	BUSL 18	Business Law		
Sel	ection Procedure	BUSM 66	Small Business Management		
Selection of students is based upon the completion of the		BUSO 5	Business English		
abo	ve admission requirements and date of application. The Department will make every effort to notify the	BUSO 26 BUSR 57	Oral Communications for Busin Income Tax Aspects of Real Esta		

BUSR 59

BUSR 76

BUSS 35

COMP 1

PSYC 1A

Major 20513

Required courses:

BUSA 11

BUSC 1A

Real Estate Property Management

Escrow Procedures I

Professional Selling

Real Estate Appraisal

Computer Keyboarding

Business Administration Department

This program is intended to prepare students for

an advisor to discuss transferability of courses.

Requirements for the Major

BUSC 1AH Principles of Economics -

employment following graduation. Students wishing a

Fundamentals of Accounting

Macroeconomics – Honors, or

Principles of Economics –

Macroeconomics, or

3.0

3.0 CSU, UC

3.0 CSU, UC

Bachelor's Degree (transfer program) should consult with

Introduction to Psychology

applicant of acceptance by mail no less than one month prior to beginning of a program.

Request the transcript for the Division Office be

addressed as follows:

Mt. San Antonio College

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Example:

Program Completion Requirements

- a. In addition to the major requirements and general education, students must also complete a course in venipuncture for radiographers. This course is offered through Community Education but may be taken elsewhere with prior approval from the department.
- b. A course in mammography is also offered in the final semester for graduate students and licensed radiographers. This course is optional.

Real Estate

Business Administration Department Major 20512

This program is intended to prepare students for employment following graduation. Students wishing a Bachelor's degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

	Requirer Required co	nents for the Major ourses:			BUSC 1B	Principles of Economics – Microeconomics, <u>or</u>	3.0	CSU, UC
	BUSM 20	Principles of Business	3.0	CSU, UC	BUSC 1BH	Principles of Economics –	3.0	CSU, UC
	BUSM 60	Human Relations in Busin	ness 3.0	CSU		Microeconomics – Honors		
	BUSO 25	Business Communications	s 3.0	CSU	BUSR 50	Real Estate Principles	3.0	CSU
	BUSR 50	Real Estate Principles	3.0	CSU	BUSR 51	Legal Aspects of Real Estate	3.0	
	BUSR 51	Legal Aspects of Real Esta	ate 3.0		BUSR 53	Real Estate Finance	3.0	
	BUSR 52	Real Estate Practice, or	3.0		BUSR 54	Real Estate Appraisal	3.0	
	BUSR 52D	Real Estate Practice Work Experience	4.0		BUSR 54SE	Standards, Ethics and Statistics for Professional Practice	1.5	
	BUSR 53	Real Estate Finance	3.0		BUSR 56	Advanced Real Estate Appraisal	3.0	
S	BUSR 54	Real Estate Appraisal	3.0		BUSR 66	General Appraiser Report	3.0	
	BUSR 55	Real Estate Economics	3.0			Writing and Case Studies		
	BUSS 36	Principles of Marketing	3.0	CSU	CISB 15	Microcomputer Applications	4.0	CSU, UC
	CISB 15	Microcomputer Application	ons 4.0	CSU, UC		Total Units	29.5	
		Total Units	34.0-35.0		Recommen	ded Electives:		
	Recommen	ded Electives:			BUSM 66	Small Business Management		
	BUSA 7	Principles of Accounting -	_		BUSO 25	Business Communications		
	005/(7	Financial, <u>or</u>			BUSR 62	Mortgage Loan Brokering and L	ending	J
	BUSA 11 Fundamentals of Accounting, <u>or</u>							
	BUSA 72	Bookkeeping – Accountir	ng		Registe	ered Veterinary Tech	nolo	gy
ı.	BUSL 18	Business Law			Agricultural Sciences Department			
	BUSM 66	Small Business Managem	nent		Major 20	105		
e	BUSO 5	Business English				n of courses in Agriculture is de		

enable students to prepare for a career in this essential and diverse profession. The department offers a comprehensive agricultural sciences program and is unique in that most courses provide hands-on experience designed to give the student a combination of practical skills and technical knowledge. Students who intend to transfer should check the lower division requirements in the catalog of the college or university which they plan to attend and also the semester and year in which courses are offered.

The following programs list all courses needed to satisfy major requirements. It is recommended that all students consult with the department chairperson or faculty advisor to file an educational plan. Students must file an educational plan with the Director of the Registered Veterinary Technology Program during the first year of study.

These programs are intended to prepare students for employment following graduation. Students desiring a Bachelor's Degree (transfer program) should consult with the department chairperson, counselor or advisor to discuss transferability of courses.

This degree is designed to prepare students for careers as Registered Veterinary Technicians who will work under the supervision of licensed private

organizations including veterinary hospitals, research vivariums, animal shelters, and other animal care agencies. Students who satisfactorily complete the requirements of this program are eligible to take the State of California Certifying Examination for Registered Veterinary Technicians.

Students wishing to be admitted to the Registered Veterinary Technology program must meet with the Director of the Registered Veterinary Technology program at least two weeks prior to the beginning of the semester in which enrollment shall begin.

Requirements for the Major Required courses 1st year:

AGAN 1	Animal Science	3.0	CSU, UC
AGAN 2	Animal Nutrition	3.0	CSU, UC
AGAN 51	Animal Handling and Restraint	3.0	CSU
AGAN 94	Animal Breeding	3.0	
AGHE 54	Veterinary Office Procedures	3.0	
AGLI 95	Anatomy of Domestic Animals	4.0	CSU
AGLI 96	Animal Sanitation and Disease Control	3.0	CSU
AGLI 98	Physiology of Domestic Animals	2.0	
Required o	ourses 2nd year:		
AGHE 60	Medical Nursing and Animal Care	4.0	CSU
AGHE 61	Surgical Nursing	4.0	CSU
AGHE 62A	Clinical Pathology	4.0	CSU
AGHE 62B	Clinical Pathology	4.0	CSU
AGHE 64	Veterinary Pharmacology	3.0	
AGHE 65	Veterinary Radiography	2.0	
AGHE 79	Laboratory Animal Medicine and Care	3.0	CSU
AGHE 84A	Applied Animal Health Procedures, <i>o<u>r</u></i>	1.0	
AGHE 84B	Applied Animal Health Procedures	1.0	
AGHE 85	Seminar in Animal Health Technology	1.0	
PLUS			
Select four	(4) units from:		
AGHE 83A	Work Experience in Animal Health	1.0	
AGHE 83B	Work Experience in Animal Health	2.0	
PLUS			
Select six (5) units from:		
AGLI 12	Exotic Animal Management	3.0	
AGLI 14	Swine Production	30	CSU

	Total Units	60.0	
AGPE 76	Aviculture — Cage and Aviary Birds	3.0	
AGPE 74	Reptile Management	2.0	
AGPE 73	Tropical and Coldwater Fish Management	2.0	
AGPE 72	Feline Management	3.0	
AGPE 71	Canine Management	3.0	
AGPE 70	Pet Shop Management	3.0	
AGLI 30	Beef Production	3.0	CSU
AGLI 19	Horse Hoof Care	2.0	CSU
AGLI 18	Horse Ranch Management	4.0	CSU
AGLI 17	Sheep Production	3.0	CSU
AGLI 16	Horse Production	4.0	CSU, U

Respiratory Therapy Respiratory Technology Department Major 21205

The Respiratory Therapy Program, which is accredited by the Committee on Accreditation for Respiratory Care (COARC), is designed to train students to function as Respiratory Therapists.

Respiratory Therapy is the application of technical skills involving a complete understanding of cardiopulmonary physiology and recognition of various pathological conditions that alter the patient's ability to breathe effectively.

By applying medical gases under pressure -i.e., compressed air, oxygen, and other mixtures - to the airways through the use of various kinds of equipment, the therapist, under the direction of the physician, treats the diseased or ineffective respiratory system.

Some mechanical aptitude and manual dexterity is helpful in learning the operation of specialized equipment. This includes diagnostic apparatus which aids the physician in detecting cardiorespiratory diseases.

Requirements for the Major Required courses: ANAT 10A Introductory Human Anatomy 4.0 CSU, UC ANAT 10B Introductory Human Physiology 4.0 CSU, UC Chemistry for Allied Health CHEM 10 4.0 CSU, UC Majors MATH 51 Elementary Algebra 4.0 Medical Terminology 3.0 CSU MEDI 90 RESD 50 Theory and Principles of 2.0 CSU **Respiratory Therapy** RESD 51A Respiratory Therapy Science 4.0 CSU RESD 51B **Respiratory Therapy Science** 4.0 CSU

RESD 52	Pulmonary Anatomy and Physiology	3.0	CSU
RESD 53	Cardiopulmonary Pathophysiology	3.0	CSU
RESD 55	Adult Respiratory Intensive Care	3.0	CSU
RESD 56A	Techniques of Respiratory Therapy	2.5	CSU
RESD 56B	Techniques of Respiratory Therapy	6.0	CSU
RESD 56C	Techniques of Respiratory Therapy	2.5	CSU
RESD 56D	Techniques of Respiratory Therapy	6.0	CSU
RESD 57A	Special Procedures for Respiratory Care	1.5	CSU
RESD 57B	Special Procedures for Respiratory Care	1.5	CSU
RESD 58	Neonatal Intensive Care	3.0	CSU
RESD 59	Respiratory Therapeutic Modalities	3.0	CSU
RESD 60	Comprehensive Pulmonary Assessment	2.0	CSU
RESD 61	Current Issues in Respiratory Care	3.0	CSU
	Total Units	69.0	

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Special Information:

The completion of the Respiratory Therapy Program and receipt of the Certificate of Completion requires completion of the Associate Degree. The student may elect to pursue either the Associate in Science or Associate in Arts Degree.

All students entering the program must submit an educational plan showing the major course requirements with the general education requirements for the degree. To remain in the program, students must maintain a "C" or better grade in all courses.

Upon completion of the required courses, the student is granted a Certificate of Completion in Respiratory Therapy. The certificate will permit the student to sit for all National Board for Respiratory Care (NBRC), Incorporated, examinations.

Entrance Requirements and Selection Procedures:

Entrance Requirements:

In addition to meeting Mt. San Antonio College's academic standards for admission, applicants must be in good standing and satisfy the following requirements:

1. Applicant must be at least 18 years of age upon entrance into the program and must be a high school

graduate or equivalent. Please provide copy of diploma as proof of high school completion.2. File a college application and be accepted as a student at Mt. San Antonio College.

3. Applicant must take the College placement exams before taking any of the prerequisite or respiratory therapy courses. Testing is administered by the Assessment Center located in the Student Services Center, Building 9B. You may contact them at (909) 594-5611, ext. 4265, to set up an appointment. If you have taken English and math at another college, please provide college transcripts. For students who possess a college degree, the college placement examination is not required. However, it will be necessary for the applicant to obtain two official copies of the college transcript showing the degree issued. One official transcript must be sent to the Respiratory Therapy Program Office and the other to the Admissions Office. If the degree was obtained at Mt. SAC, it is not necessary to request transcripts. Transcripts should be addressed as follows:

Example:

Mt. San Antonio College Technology and Health Division Respiratory Therapy Program 1100 North Grand Avenue Walnut, CA 91789-1389

- 4. Submit an application for the Respiratory Therapy Program to the Technology and Health Division Office (Bldg. 28A, Room 101E), (909) 594-5611, ext. 4750. All applications are dated upon receipt.
- 5. The following courses are advisory prerequisites. It is recommended, but not required, that these courses be completed prior to starting the program. <u>Completion of these course is mandatory prior to graduation from the Respiratory Therapy Program</u>.

MATH 51	Elementary Algebra, <u>or</u> equivalent	4.0	
CHEM 10	Chemistry for Allied Health Majors, <u>or</u> equivalent	4.0	CSU, UC
MEDI 90	Medical Terminology, <u>or</u> equivalent	3.0	CSU
ANAT 10A	Introductory Human Anatomy, <u>or</u> equivalent, <u>and</u>	4.0	CSU, UC
ANAT 10B	Introductory Human Physiology, <u>or</u> equivalent	4.0	CSU, UC
It is highly recommended that students complete their			

general education requirements prior to entering the program.

Foreign Transcripts:

All coursework taken outside of the United States must be analyzed by a designated agency for foreign transcript evaluation. No foreign course work will be accepted without this evaluation. It is the sole responsibility of the applying student to get the evaluation completed before entry into the program. Information for transcript evaluation is available in the Technology and Health Division.

Selection Procedure:

Selection for the Respiratory Therapy program is on a first-come/first- served basis. It is strongly recommended that the advisory prerequisites are completed prior to entering the program. Completion is not, however, mandatory for acceptance.

A.S. Degree Requirements:

All students entering the Respiratory Therapy Program MUST complete all the major course requirements and the general education requirements necessary to complete the Associate Degree before a Certificate of Completion in Respiratory Therapy will be granted. The Certificate will permit the student to sit for all National Board for Respiratory Care (NBRC), Incorporated, examinations.

Other Requirements:

All students will be required to complete a background check prior to entering the clinical education phase.

A physical examination, including specific immunizations, is required of all candidates prior to beginning classes. These requirements are in accordance with healthcare agency policy that insures that students are in good health and free from communicable disease and able to perform their training functions. Drug testing may also be required as a part of this physical examination.

Sign Language/Interpreting Sign Language Department Maior 20801

Upon completion of this program, the graduate will be functional in sign language and will be able to interpret in a variety of situations. The program provides an overview of the Deaf community, careers working with Deaf people, teaches American Sign Language, offers specific interpreting courses, and includes training in the ethics and practical approaches that must be understood by a practicing interpreter.

Students who complete the required courses listed below and who also complete the graduation requirements of Mt. San Antonio College will be awarded the Associate in Science Degree in Sign Language/ Interpreting.

Requirements for the Major				
Required co	ourses:			
SIGN 80	American Sign Language I	4.0	CSU,	
SIGN 81	American Sign Language II	4.0	CSU,	
SIGN 82A	American Sign Language III	4.0	CSU,	
SIGN 82B	American Sign Language IV	4.0	CSU,	
SIGN 82C	American Sign Language V	4.0		
SIGN 83	Deaf Perspectives	3.0		
SIGN 85	American Deaf Culture	3.0	CSU,	
SIGN 86	American Sign Language Structure	3.0	CSU,	
SIGN 87	Translation: American Sign Language/English	3.0		
SIGN 88	Principles of Sign Language Interpreting	3.0		
SIGN 88A	Interpreting	4.0		
SIGN 88B	Advanced Interpreting	4.0		
SIGN 88L	Practicum	1.0		
SPCH 1A	Public Speaking, <u>or</u>	3.0	CSU,	
SPCH 1AH	Public Speaking – Honors	3.0	CSU,	
	Total Units	47.0		

Recommended Flectives

iccommenta	cu	LIC		c
SIGN 89	Fin	ner	Sne	llina

	,		,
SIGN 92	Oral In	terpr	reting

Special Projects in Sign Language/Interpre SIGN 99

Special Information:

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To remain in the program, students must maintain a "C" or better grade in all courses.

Small Business Management Accounting and Management Department Major 20508

This program is intended to prepare students for employment following graduation. Students wishing a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

Requirements for the Major Required courses:					
BUSA 7	Principles of Accounting — Financial	5.0	CSU, UC		
BUSM 10	Principles of Continuous Quality Improvement	3.0			
BUSM 20	Principles of Business	3.0	CSU, UC		
BUSM 60	Human Relations in Business	3.0	CSU		
BUSM 61	Business Organization and Management	3.0	CSU		
BUSM 62	Human Resource Management	3.0			

U, UC	BUSM 66 BUSS 36 CISB 15	Small Business Management Principles of Marketing Microcomputer Applications	3.0 3.0 4.0	CSU CSU, UC		
U, UC U, UC		Total Units	30.0			
U, UC U, UC	Recommen	ded Electives:				
U, UC U, UC	BUSM 81 Work Experience in Business, <u>or</u> BUSM 82 Work Experience in Business, <u>or</u> BUSM 83 Work Experience in Business, <u>or</u> BUSM 84 Work Experience in Business BUSM 85 Special Issues in Business, <u>or</u> BUSS 85 Special Issues in Marketing					
	that studen elective cou should mee Manageme	Business Management faculty re ts complement their studies wi irses chosen from the list above et with a professor of Small Bus nt to help them determine whi suit their career plans.	ith seleo e. Stude iness	cted nts		
U, UC U, UC	Televis Art Depa Major 20					
eting	in Science D to prepare a in a variety and mixer, eu production c basis in both broadcasting their progra	of study qualifies the student fo begree in Television Production a a student for an entry-level job i of areas, including camera operatic ditor, DVD author, screenwriter, dire rewmember. The program gives th h the performance and the busin g and production. Students can f m of study for on-the-air or behi ecting from a variety of optional	nd is de n the in on, audio ctor, and e stude less side urther c ind-the	esigned dustry recordist d general nt a solid es of ustomize scenes		

Requirements for the Major Reauired courses:

R-TV 01	Introduction to Broadcasting	3.0	CSU
R-TV 15	Broadcast Business Practices	3.0	
R-TV 16	Broadcast Career Preparation	3.0	
R-TV 19A	Beginning Television Production	3.0	CSU
R-TV 19B	Advanced Television Production	3.0	CSU
R-TV 98A	Television/Film Seminar	1.0	
R-TV 98B	Television/Film Internship	1.0	
PLUS			
Select twe	ve (12) units from:		
R-TV 05	Radio and Television Newswriting	3.0	
R-TV 18	Writing for Television/Film	3.0	CSU
R-TV 20	Television News Production	3.0	
R-TV 21	Remote Television Production and Engineering	3.5	

CSU	R-TV 22	Electronic Graphics and Non-Linear Editing	3.0
CSU, UC		Total Units	29.0
		ded Electives:	
	ANIM 115	Storyboarding	
	R-TV 26 Legal Issues in Entertainment Law		
	THTR 17	Acting for Television	

Welding

Air Conditioning, Water & Welding Technologies Major 20919

This program is designed to prepare the student for employment in the broad field of welding. It leads to occupations in manufacturing and repair and helps prepare the student for positions in supervision.

Courses in the welding curriculum prepare students for welding certification. The college is a testing agency for the City of Los Angeles and is authorized to administer the performance test for the Structural Welding Certificate. There is a \$50 charge for students and \$60 for non- students to take this test. Topics of the written portion of the test which is administered by the city are reviewed in various welding courses offered by the college.

This program is intended to prepare students for employment following graduation. Students desiring a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

Requirements for the Major Required courses:

	WELD 40	Introduction to Welding	2.0 CSU			
	WELD 50	Oxyacetylene Welding	2.0			
	WELD 51	Basic Electric Arc Welding	2.0			
	WELD 53A	Welding Metallurgy	3.0 CSU			
	WELD 70A	Beginning Arc Welding	3.0			
	WELD 70B	Intermediate Arc Welding	3.0			
	WELD 70C	Certification for Welders	3.0			
	WELD 80	Fabrication and Construction Welding	3.0			
		Total Units	21.0			
	Recommended Electives:					
	BUSM 61 Business Organization and Management					
	EDT 44	Technical Engineering Drawing I				
I	EDT 11	lechnical Engineering Drav	ving i			
	EDT TT MFG 70	Technical Mathematics –	ving i			

EDITT	lechnical Engineering Drawing I
MFG 70	Technical Mathematics –
	Manufacturing Applications
WELD 30	Metal Sculpture
WELD 60	Print Reading and Computations for Welders
WELD 81	Pipe and Tube Welding



Section 8

PROGRAMS OF STUDY LEADING TO A CERTIFICATE

Mt. San Antonio College offers a variety of programs designed to develop or enhance vocational proficiency for which certificates are awarded upon completion. The possession of such a certificate is favorably recognized by business and industry and is frequently a requirement for professional advancement. Detailed brochures describing certificate programs are available.

Students who are in the last semester of a certificate program must:

- Submit an Application for Certificate form in the Admissions Office
- At least 1/2 of the credits earned toward the certificate must be completed at Mt. SAC
- A grade of "C" or better must be earned in each course to be applied to the certificate

Certificate programs listed do not necessarily qualify as specific majors for a two-year A.S. Degree program; however, most can be readily phased into existing majors. Students should consult the course descriptions in this *Catalog* to determine prerequisites for each course listed as part of a certificate program. Consult counselors for further information.

Courses of study outlined show how students may select and combine subjects in a balanced program that will prepare them for a specific vocation or further professional training.

These curricula should be considered only as patterns or samples to guide students in outlining their college program since they may need to be modified to fit students' personal plans. Students who desire help in planning for a vocation or profession not listed should seek the advice of a counselor. It is apparent that Mt. San Antonio College offers students a wide range of educational experiences. They will profit from the offerings here only to the extent that they carefully plan a program of study best suited to their own pattern of interests, aptitudes, personal characteristics, and previous experiences.

ALPHABETICAL LISTING — CERTIFICATES

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Accounting – Financial Planning65
Accounting – Managerial 65
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ALPHABETICAL LISTING — CERTIFICATES (continued)

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Children's Program Certificate: General –	Construction Inspection
Level I	Consumer Services
Children's Program Certificate: General –	Correctional Sciences
Level II	
	Culinary Arts – Level I 78
Children's Program Certificate: General –	D
Level III	Data Entry
Children's Program Certificate:	Database Management Systems
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Children's Program Certificate:	
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C++ Programming75	Electronic Systems Technology – Level I
CIS – Professional Certificate in Database	
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Programming75	Technology 80
CIS – Professional Certificate in Linux	Electronics Communications
CIS – Professional Certificate in Network	Electronics Technology
Security	Electronics: Industrial Systems
CIS – Professional Certificate in Networking75	Emergency Medical Technician —
CIS – Professional Certificate in Object-Oriented	Paramedic (EMT-P)81
Design & Programming	Emergency Medical Technician I
	Engineering Design Technology – Level I
CIS – Professional Certificate in Oracle	Engineering Design Technology – Level II
CIS – Professional Certificate in SOA and	Engineering Design Technology – Level III
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CIS – Professional Certificate in SQL	
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Telecommunications76	Family Child Care82
CIS – Professional Certificate in Visual Basic	Fashion Design — Computer-Aided
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	Fashion Design — Level II
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ALPHABETICAL LISTING — **CERTIFICATES** (continued)

Fashion Merchandising – Level I
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Hospitality: Hospitality Management —
level II
Hospitality: Restaurant Management –
level I
Hospitality: Restaurant Management –
level II

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Information & Operating Systems Security
Interior Design – Level I – Merchandising
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Designation
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L

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L	aw Enforcement 88	U -
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M - N	
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Manufacturing Tech	nology
Marketing Managen	nent
MasterCAM	
Medical Office Speci	alist
Mental Health Techr	ology — Psychiatric
Technician	
Microcomputer Prod	uctivity Software
Nursery Managemei	nt
Nutrition Program A	ssistant – Level I
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Nutrition Program A	ssistant — Level II:
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Animation – Digital 3 Dimensional	Children's Program Certificate:
Animation – Traditional	General — Level III74
Art: Aesthetics for Technology	Children's Program Certificate:
Computer Graphics Design/Photography	Small Business Management74
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	CIS – Professional Certificate in
Radio Broadcasting: On the Air	C++ Programming
Television Production	CIS – Professional Certification in Database
Theatrical Costumer 93	Management – Microcomputers
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Accounting – Financial Planning	CIS – Professional Certificate in
Accounting – Managerial	Network Security75
Accounting – Payroll	CIS – Professional Certificate in Object-
Administrative Assistant – Level I	Oriented Design & Programming
Administrative Assistant – Level II	CIS – Professional Certificate in Oracle
Administrative Assistant – Level III	CIS – Professional Certificate in SOA and
	Web Services
Business: Human Resource Management –	CIS – Professional Certificate in SOL
Level I	CIS – Professional Certificate in
Business: Human Resource Management —	Telecommunications
Level II	CIS – Professional Certificate in Visual Basic
Business: Human Resource Management –	Programming
Level III	CIS – Professional Certificate in
Business: International – Level I	Web Programming
	CIS – Professional Certificate in
Business: International – Level III	Web Programming
Business: Business Management – Level I	
Business: Business Management – Level II	CIS – Professional Certificate in Windows
Business: Business Management – Level III	Operating System Administration
Business: Business Retail Management –	Consumer Services
Level I	Culinary Arts – Level I
Business: Business Retail Management –	Data Entry
Level II	Database Management Systems
Business: Business Retail Management —	Desktop Publishing
Level III	Escrow Management
Business: Small Business Management —	Family Child Care
Level I	Fashion Design – Computer-Aided
Business: Small Business Management —	Fashion Design – Level I
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Pet Science	SurfCAM
Sports Turf Management	Welding

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Athletic Trainer Aide I	0
Coaching	6
Fitness Specialist/Personal Trainer	4

Accounting

Accounting and Management Department Certificate 60502

The Accounting Certificate incorporates various accounting courses that prepare the student for entry-level positions and/or professional advancement in a wide variety of accounting jobs. These jobs include general accounting, cost accounting, payroll, inventory management, asset management, credit and collections, financial analysis, etc.

Requirements for the Certificate *Required courses:*

Completion of the Accounting: Financial Planning Certificate (21 Units) or Accounting: Managerial Certificate (19 Units) as follows:

BUSA 7	Principles of Accounting –	5.0	CSU, UC
BUSA 8	Financial Principles of Accounting – Managerial	5.0	CSU, UC
BUSA 21	Cost Accounting, <u>or</u>	4.0	
BUSA 58	Federal Income Tax Law	3.0	
BUSA 75	Using Microcomputers in Financial Accounting, <u>or</u>	1.0	
BUSA 81	Work Experience in Account	ting 1.0	
BUSA 76	Using Microcomputers in Managerial Accounting, <u>or</u>	1.0	
BUSA 81	Work Experience in Accoun	ting 1.0	
BUSO 25	Business Communications	3.0	CSU
Plus the fol	lowing courses:		
BUSA 21	Cost Accounting, <u>or</u>	4.0	
BUSA 58	Federal Income Tax Law	3.0	
BUSA 52	Intermediate Accounting	3.0	
BUSA 70	Payroll and Tax Accounting	3.0	
BUSM 20	Principles of Business	3.0	CSU, UC
	Total Units 3	0.0 - 32.0	
Option BUSA not previous	1 21 or BUSA 58: Take whiche ly taken.	ver course ?	you have

Accounting – Bookkeeping Accounting and Management Department Certificate 60504

The Bookkeeping certificate provides the student with the
basic skills and knowledge for entry-level positions within
the clerical/accounting field. Common duties performed
in this field are posting transactions to journals/ledgers,
accounts receivable, accounts payable, inventory tracking/
reporting, bank reconciliation, expense reporting, and
account analysis.BUSA 81
BUSA 76BUSA 81
CISB 15

Require Required c	ments for the Certificate			P S
BUSA 7	Principles of Accounting –	50	CSU, UC	B
DOSITI	Financial, <i>or</i>	5.0	00,00	C
BUSA 72	Bookkeeping – Accounting	5.0		C
BUSA 53	Ten-Key Calculations, <u>or</u>	2.0		C
BUSA 81	Work Experience in Accounting	1.0		c
BUSO 5	Business English, <u>or</u>	3.0		0
BUSO 25	Business Communications	3.0	CSU	0
	Total Units 9.0 -	10.0		
BUSA 7 can	be substituted for BUSA 72 for tho	se stud	lents	-
	higher level certificate/degree or pl	'an on	taking	F
a course foi	r which BUSA 7 is a prerequisite.			A
Accou	nting – Computerized	ł		T
	ing and Management Depa		ent	w
Certificat	te 60503			tı
	iterized Accounting Certificate pro			0
	th basic accounting skills and kno			b
	ith additional training in compute			R
	o the accounting industry. This ce			R
	repares the student for an entry- uterized accounting clerk. Commo			B
	in this field are utilization of acc			
	rograms for posting transactions			B
	counts receivable, accounts payab			
	porting, bank reconciliation, expe			B
and accour	nt analysis.			B
Require	ments for the Certificate			B
Required c				_
Completion	n of the Accounting – Bookkeepin	g Certi	ficate	B
(9-10 Unit	s) as follows:			B
BUSA 7	Principles of Accounting – Financial, <i>or</i>	5.0	CSU, UC	B
BUSA 72	Bookkeeping – Accounting	5.0		B
BUSA 53	Ten-Key Calculations, or	2.0		
BUSA 81	Work Experience in Accounting	1.0		_
BUSO 5	Business English, or	3.0		4
BUSO 25	Business Communications	3.0	CSU	A
Plus the fe	llowing courses:			A C
BUSA 75	Using Microcomputers in	1.0		T
	Financial Accounting, <u>or</u>	1.0		a

Work Experience in Accounting 1.0

1.0

1.0

4.0 CSU, UC

Using Microcomputers in

Managerial Accounting, or

Microcomputer Applications

Work Experience in Accounting

			-		, ,
PLUS Select 3.5 Units from:				Requirer Required co	nents for the Certificate
BUSA 81	Work Experience in Accounting	1.0		BUSA 7	Principles of Accounting –
CISB 11	Computer Information Systems	3.5	CSU, UC		Financial
CISB 13	Microsoft Windows	2.0	CSU	BUSA 8	Principles of Accounting –
CISB 21	Microsoft Excel	4.0			Managerial
CISW 11	The Internet	4.0	CSU	BUSA 21	Cost Accounting
COMP 11	Internet Research for Business	2.0	CSU	BUSA 75	Using Microcomputers in
COMP 20	Microsoft Word	4.0			Financial Accounting, <u>or</u>
				BUSA 81	Work Experience in Accounting
	Total Units 18.5 -	19.5		BUSA 76	Using Microcomputers in

Accounting – Financial Planning Accounting and Management Department Certificate 60509

The Financial Planning Certificate provides the student with basic accounting skills combined with specialized training in financial planning. Students completing this certificate can assist companies within the areas of budgeting, tax, and financial planning.

Requirements for the Certificate *Required courses:*

BUSA 7	Principles of Accounting — Financial	5.0	CSU, UC
BUSA 8	Principles of Accounting — Managerial	5.0	CSU, UC
BUSA 58	Federal Income Tax Law	3.0	
BUSA 71	Financial Planning	3.0	
BUSA 75	Using Microcomputers in Financial Accounting, <u>or</u>	1.0	
BUSA 81	Work Experience in Accounting	1.0	
BUSA 76	Using Microcomputers in Managerial Accounting, <u>or</u>	1.0	
BUSA 81	Work Experience in Accounting	1.0	
BUSO 25	Business Communications	3.0	CSU
	Total Units	21.0	

Accounting – Managerial Accounting and Management Department

Certificate 60533

The Managerial Accounting Certificate provides basic accounting skills and knowledge concentrating in the area of managerial accounting. This prepares students for entrylevel positions within the managerial accounting segment. Common duties performed in this field include cost analysis, budget preparation, variance analysis, expense reporting, account analysis, and preparation of various internal reports to help management make decisions.

Required co	ourses:		
BUSA 7	Principles of Accounting – Financial	5.0	CSU, UC
BUSA 8	Principles of Accounting — Managerial	5.0	CSU, UC
BUSA 21	Cost Accounting	4.0	
BUSA 75	Using Microcomputers in Financial Accounting, <u>or</u>	1.0	
BUSA 81	Work Experience in Accounting	1.0	
BUSA 76	Using Microcomputers in Managerial Accounting, <u>or</u>	1.0	
BUSA 81	Work Experience in Accounting	1.0	
BUSO 25	Business Communications	3.0	CSU
	Total Units	19.0	

Accounting – Payroll

Accounting and Management Department Certificate 60505

The Payroll Certificate combines basic accounting skills with specialized training in payroll, preparing the student for entry-level positions within the payroll segment of accounting. Common duties performed in this field include payroll tax reporting, maintenance of payroll accounting systems, and posting payroll transactions to journals/ledgers.

Requirements for the Certificate *Required courses:*

Completion of Accounting – Bookkeeping Certifica as follows:				te
	BUSA 7	Principles of Accounting — Financial, <u>or</u>	5.0	CSU, UC
	BUSA 72	Bookkeeping – Accounting	5.0	
	BUSA 53	Ten-Key Calculations, <u>or</u>	2.0	
	BUSA 81	Work Experience in Accounting	1.0	
	BUSO 5	Business English, <u>or</u>	3.0	
	BUSO 25	Business Communications	3.0	CSU
	Plus the fo	llowing courses:		
	BUSA 70	Payroll and Tax Accounting	3.0	
	RUCA 75	Using Microcomputors in	10	

	Total Units 14.0 -	15.0
BUSA 81	Work Experience in Accounting	1.0
BUSA 76	Using Microcomputers in Managerial Accounting, <u>or</u>	1.0
BUSA 81	Work Experience in Accounting	1.0
BUSA 75	Using Microcomputers in Financial Accounting, <u>or</u>	1.0
BUSA 70	Payroll and Tax Accounting	3.0

Total Units

Administrative Assistant – Level I Office Technology Department Certificate 60516			Office Te	i strative Ass i chnology Depar te 60517
clerical positions where keyboarding is the primary				II Certificate prepares ositions where a varie
function.				ments for the C
-	ments for the Certificate		Required o	
Required o		2.0		n of the Administrativ (18.5 - 21 units) as fo
BUSO 5 COMP 1	Business English	3.0 4.0 CSU		
COMP 1 COMP 1A	Computer Keyboarding, <u>or</u> Computer Keyboarding, <i>and</i>	4.0 CSU 2.0 CSU	BUSO 5	Business English
COMP 1A	Computer Keyboarding, <u>ana</u> Computer Keyboarding	2.0 CSU 2.0 CSU	COMP 1	Computer Keyboar
COMP 12	Office Computer	4.0 CSU, l	COMP 1A	Computer Keyboar Computer Keyboar
COMIT 12	Applications, <i>or</i>	4.0 (30,0	COMP 1B	Office Computer Ap
CISB 15	Microcomputer Applications	4.0 CSU, l		Microcomputer Ap
COMP 28	Office Management Skills	3.0	COMP 28	Office Managemer
	Total Units	14.0		-
		14.0	Required of	
Admin	istrative Assistant –	الالمربما		n of the Administrativ (18.5 - 21 units) as fo
	chnology Department	Levern		Business Communi
	te 60514		BUSO 25 COMP 2	Intermediate Com
The Level I	I Certificate prepares students fo	r clerical	CONT 2	Keyboarding
	vhere office organization and tra		COMP 20	Word for the Busin
skills are n	eeded.			Professional, <u>or</u>
Require	ments for the Certificate		COMP 120	A Microsoft Word – L
Required c			COMP 120	B Microsoft Word – L
	n of the Administrative Support –	Level I	COMP 68	Transcription Techr
Certificate	(10.5 - 11 units) as follows:		Plus the fo	ollowing courses:
BUSO 5	Business English	3.0	Level III as	-
COMP 1	Computer Keyboarding, <u>or</u>	4.0 CSU	BUSO 26	Oral Communicatio
COMP 1A	Computer Keyboarding, <u>and</u>	2.0 CSU	2020 20	Business
COMP 1B	Computer Keyboarding	2.0 CSU	BUSO 96A	Business Vocabula
COMP 12	Office Computer	4.0 CSU, l	JC COMP 11	Internet Research f
	Applications, <u>or</u>	4.0 - 6611-1	COMP 13	Using Web Page So
CISB 15	Microcomputer Applications	4.0 CSU, l	COMP 60	Desktop Publishing
COMP 28	Office Management Skills	3.0		InDesign or Pagem
	ollowing courses:		COMP 150	Basic PowerPoint,
Level II as f			COMP 50	Desktop Presentati PowerPoint
BUSO 25	Business Communications	3.0 CSU		
COMP 2	Intermediate Computer Keyboarding	4.0		Total Units
COMP 20	Word for the Business Professional	4.0		n ditioning an litioning, Water &
COMP 68	Transcription Techniques	3.0	Certifica	te 60909

Administrative Assistant – Level II	I
office Technology Department	
ertificate 60517	

es students for administrative riety of skills are needed.

Certificate

		.5 - 46.5	
CONTENT	PowerPoint	,	
COMP 50	Desktop Presentations using		CSU
COMP 150	Basic PowerPoint, <i>or</i>	1.0	
COMP 60	Desktop Publishing with InDesign or Pagemaker	4.0	CSU
COMP 13	Using Web Page Software	4.0	CSU
COMP 11	Internet Research for Busine		
BUSO 96A	Business Vocabulary	1.5	
BUSO 26	Oral Communications for Business	3.0	
Level III as f	ollows:		
	lowing courses:		
COMP 68	Transcription Techniques	3.0	
	Microsoft Word – Level 2	1.0	
	Microsoft Word – Level 1, a		
COMP 20	Word for the Business Professional, <u>or</u>	4.0	
	Keyboarding		
COMP 2	Intermediate Computer	4.0	
BUSO 25	Business Communications	3.0	CSU
	18.5 – 21 units) as follows:	t – Level i	11
Required co	of the Administrative Suppor	rt Lovall	11
	-	5.0	
COMP 28	Office Management Skills	3.0	50,0
CISB 15	Microcomputer Applications		CSU, U
COMP 1B	Office Computer Applications		
COMP 1A COMP 1B	Computer Keyboarding, <u>and</u> Computer Keyboarding	<u>1</u> 2.0 2.0	
COMP 1	Computer Keyboarding, <u>or</u>	4.0	CSU CSU
BUSO 5	Business English	3.0	CC 11
	18.5 - 21 units) as follows:		
Certificate (
	of the Administrative Suppor	rt – Level I	

& Welding Technologies

This program is designed to prepare the student for employment in the broad field of air conditioning,

heating, and refrigeration. It leads to occupations in design, manufacturing, operation, sales, distribution, installation, maintenance, and repair. Students desiring a Bachelor's Degree (transfer program) should consult with an advisor to discuss transferability of courses.

Requirements for the Certificate Reauired courses:

negunea co		
AIRC 10	Technical Mathematics in Air Conditioning and Refrigeration	2.0
AIRC 11	Welding for Air Conditioning and Refrigeration	2.0
AIRC 12	Air Conditioning Codes and Standards	3.0
AIRC 20	Refrigeration Fundamentals	3.0
AIRC 25	Electrical Fundamentals for Air Conditioning and Refrigeration	4.0
AIRC 26A	Heat Pump Fundamentals	1.5
AIRC 26B	Gas Heating Fundamentals	2.0
AIRC 30	Heat Load Calculations	3.0
AIRC 31	Commercial Electrical for Air Conditioning and Refrigeration	4.0
AIRC 32A	Air Properties and Measurement	1.5
AIRC 32B	Air Distribution Systems	1.5
AIRC 34	Advanced Mechanical Refrigeration	4.0
AIRC 37	Pneumatic Controls	2.0
AIRC 39	Building Automation Systems	4.0
	Total Units	37.5

Aircraft Powerplant Maintenance Technology – Day

Aircraft Maintenance Technology & Manufacturing Department Certificate 60912

This program prepares students to enter employment as a certified powerplant technician in the aircraft maintenance industry. Training is given in the overhaul of various powerplants and their components. Completion of this program leads to an Associate in Science Degree or a Certificate. Excellent opportunities for employment exist in this area of training. Certain administrative, quality control, and flight personnel careers require the applicant to hold a valid A & P Certificate.

This program offers a day (full-time) or evening (part-time) program option. The only difference between the two options is the course numbering and time required to complete the program. Day program courses AIRM 65A and 65B are equivalent to evening program courses AIRM 95A, 95B, 96A, 96B, 97A, 97B, 98A, and 98B

Day program courses AIRM 66A and 66B are equivalent to evening program courses AIRM 90A, 90B, 91A, 91B, 92A, 92B, 93A, and 93B.

Successful completion of this program enables students to take the FAA examination in General and Powerplant. Passing the General Exam plus the Airframe and/or Powerplant Exam provides certification as an Aircraft Maintenance Technician which is required for employment in this field. Students desiring a Bachelor's Degree (transfer program) should consult with an advisor to discuss transferability of courses.

Requirements for the Certificate Reauired courses:

negunea	, and sear		
AIRM 65A	Aircraft Powerplant Maintenance Technology	12.0	CSU
AIRM 65B	Aircraft Powerplant Maintenance Technology	12.0	
AIRM 70A	Aircraft Maintenance Electricity and Electronics	3.0	
AIRM 70B	Aircraft Maintenance Electricity and Electronics	3.0	
AIRM 71	Aviation Maintenance Science	6.0	
AIRM 72	Aviation Materials and Processes	1.5	
AIRM 73	Aviation Welding	1.5	
	Total Units	39.0	
Recommen	ded Electives:		
AIRM 74	Aircraft Maintenance Technolog Work Experience	gy —	
AIRM 80	Lab Studies in Aircraft Mainten Technology	ance	
AIRM 81	Lab Studies in Aircraft Mainten	ance	
	Technology		

- EDT 12 Technical Engineering Drawing II
- ELEC 90 Survey of Electronics
- MFG 70 Technical Mathematics -Manufacturing Applications PHYS 1 Physics

Aircraft Powerplant Maintenance Technology – Evening Aircraft Maintenance Technology & Manufacturing Department Certificate 60952

This program prepares students to enter employment as a certified powerplant technician in the aircraft maintenance industry. Training is given in the overhaul of various powerplants and their components. Completion of this program leads to an Associate in Science Degree or

28.0

a Certificate. Excellent opportunities for employment exist in this area of training. Certain administrative, quality control, and flight personnel careers require the applicant to hold a valid A & P Certificate.

This program offers a day (*full-time*) or evening (*part-time*) program option. The only difference between the two options is the course numbering and time required to complete the program. Day program courses AIRM 65A and 65B are equivalent to evening program courses AIRM 95A, 95B, 96A, 96B, 97A, 97B, 98A, and 98B. Day program courses AIRM 66A and 66B are equivalent to evening program courses AIRM 90A, 90B, 91A, 91B, 92A, 92B, 93A, and 93B.

Successful completion of this program enables students to take the FAA examination in General and Powerplant. Passing the General Exam plus the Airframe and/or Powerplant Exam provides certification as an Aircraft Maintenance Technician which is required for employment in this field. Students desiring a Bachelor's Degree (*transfer program*) should consult with an advisor to discuss transferability of courses.

Requirements for the Certificate *Required courses:*

AIRM 70A	Aircraft Maintenance Electricity and Electronics	3.0
AIRM 70B	Aircraft Maintenance Electricity and Electronics	3.0
AIRM 71	Aviation Maintenance Science	6.0
AIRM 72	Aviation Materials and Processes	1.5
AIRM 73	Aviation Welding	1.5
AIRM 95A	Aircraft Powerplant	3.0
	Maintenance Technology	
AIRM 95B	Aircraft Powerplant	3.0
	Maintenance Technology	
AIRM 96A	Aircraft Powerplant	3.0
	Maintenance Technology	
AIRM 96B	Aircraft Powerplant	3.0
	Maintenance Technology	
AIRM 97A	Aircraft Powerplant	3.0
	Maintenance Technology	
AIRM 97B	Aircraft Powerplant	3.0
	Maintenance Technology	2.0
AIRM 98A	Aircraft Powerplant	3.0
	Maintenance Technology	2.0
AIRM 98B	Aircraft Powerplant	3.0
	Maintenance Technology	
	Total Units	39.0

Recommen	ded Electives:
AIRM 74	Aircraft Main

AIRM 74	Aircraft Maintenance Technology — Work Experience
AIRM 80	Lab Studies in Aircraft Maintenance Technology
AIRM 81	Lab Studies in Aircraft Maintenance Technology
EDT 12	Technical Engineering Drawing II
ELEC 90	Survey of Electronics
MFG 70	Technical Mathematics — Manufacturing Applications
PHYS 1	Physics

Airframe Maintenance Technology – Day Aircraft Maintenance Technology & Manufacturing Department Certificate 60911

This program prepares students to enter employment as a certified airframe technician in the aircraft maintenance industry. Training is given in the overhaul of various airframes and their components. Completion of this program leads to an Associate in Science Degree or a Certificate. Excellent opportunities for employment exist in this area of training. Certain administrative, quality control, and flight personnel careers require the applicant to hold a valid A & P Certificate.

This program offers a day (*full-time*) or evening (*part-time*) program option. The only difference between the two options is the course numbering and time required to complete the program. Day program courses AIRM 66A and 66B are equivalent to evening program courses AIRM 90A, 90B, 91A, 91B, 92A, 92B, 93A, and 93B.

Successful completion of this program enables students to take the FAA examinations in Airframe and General. Passing the General Exam plus the Airframe and/or Powerplant Exam provides certification as an Aircraft Maintenance Technician which is required for employment in this field. Students desiring a Bachelor's Degree (*transfer program*) should consult with an advisor to discuss transferability of courses.

Requirements for the Certificate Required courses:

AIRM 66A	Airframe Maintenance Technology	12.0	CSU
AIRM 66B	Airframe Maintenance Technology	12.0	
AIRM 70A	Aircraft Maintenance Electricity and Electronics	3.0	

	AIRM 70B	Aircraft Maintenance Electricity and Electronics	3.0
	AIRM 71	Aviation Maintenance Science	6.0
	AIRM 72	Aviation Materials and Processes	5 1.5
	AIRM 73	Aviation Welding	1.5
		Total Units	39.0
	Recommen	ded Electives:	
	AIRM 74	Aircraft Maintenance Technology Work Experience	/-
	AIRM 80	Lab Studies in Aircraft Maintena Technology	nce
_	AIRM 81	Lab Studies in Aircraft Maintena Technology	nce
	EDT 12	Technical Engineering Drawing I	I
	ELEC 90	Survey of Electronics	
	MFG 70	Technical Mathematics – Manuf Applications	acturing

PHYS 1 Physics

Airframe Maintenance Technology – Evening Aircraft Maintenance Technology & Manufacturing Department Certificate 60951

This program prepares students to enter employment as a certified airframe technician in the aircraft maintenance industry. Training is given in the overhaul of various airframes and their components. Completion of this program leads to an Associate in Science Degree or a Certificate. Excellent opportunities for employment exist in this area of training. Certain administrative, quality control, and flight personnel careers require the applicant to hold a valid A & P Certificate.

This program offers a day (*full-time*) or evening (*part-time*) program option. The only difference between the two options is the course numbering and time required to complete the program. Day program courses AIRM 66A and 66B are equivalent to evening program courses AIRM 90A, 90B, 91A, 91B, 92A, 92B, 93A, and 93B.

Successful completion of this program enables students to take the FAA examinations in Airframe and General. Passing the General Exam plus the Airframe and/or Powerplant Exam provides certification as an Aircraft Maintenance Technician which is required for employment in this field. Students desiring a Bachelor's Degree (*transfer program*) should consult with an advisor to discuss transferability of courses.

_		, ,	
	Requiren	nents for the Certificate	
	Required co	ourses:	
	AIRM 70A	Aircraft Maintenance Electricity and Electronics	3.0
	AIRM 70B	Aircraft Maintenance Electricity and Electronics	3.0
	AIRM 71	Aviation Maintenance Science	6.0
	AIRM 72	Aviation Materials and Processes	1.5
	AIRM 73	Aviation Welding	1.5
	AIRM 90A	Airframe Maintenance Technology	3.0
	AIRM 90B	Airframe Maintenance Technology	3.0
	AIRM 91A	Airframe Maintenance Technology	3.0
	AIRM 91B	Airframe Maintenance Technology	3.0
	AIRM 92A	Airframe Maintenance Technology	3.0
-	AIRM 92B	Airframe Maintenance Technology	3.0
	AIRM 93A	Airframe Maintenance Technology	3.0
	AIRM 93B	Airframe Maintenance Technology	3.0
		Total Units	39.0
ce	Recommen	ded Electives:	
	AIRM 74	Aircraft Maintenance Technology Work Experience	-
	AIRM 80	Lab Studies in Aircraft Maintenar Technology	nce
nt	AIRM 81	Lab Studies in Aircraft Maintenar Technology	nce
	EDT 12	Technical Engineering Drawing I	l
		Cumular of Floretnamics	

- ELEC 90 Survey of Electronics
- MFG 70 Technical Mathematics Manufacturing Applications PHYS 1 Physics

Alcohol/Drug Counseling Public Services Department Certificate 62101

Upon completion of the required courses with a grade of "C" or better, a Certificate of Completion in Alcohol/Drug Studies will be awarded by the Technology and Health Division.

Requirements for the Certificate Required core courses: AD 1 Alcohol/Drug Dependency 3.0 CSU AD 2 Physiological Effects of 3.0 CSU Alcohol/Drugs AD 3 Chemical Dependency: 3.0 CSU Intervention, Treatment and Recovery AD 4 Issues in Domestic Violence 3.0 1.5 CSU AD 5 **Chemical Dependency:** Prevention and Education AD 6 **Dual Diagnosis** 3.0 CSU **Required skill courses:** AD 8 Group Process and Leadership 3.0 Family Counseling 3.0 AD 9 Client Record and AD 10 1.5 Documentation AD 11 Techniques of Intervention 3.0 and Referral **Required field work courses:** AD 13 Internship/Seminar 3.5 CSU AD 14 Advanced Internship/Seminar 3.5 CSU PLUS Select two (2) courses from: CHLD 10 Child Growth and 3.0 CSU, UC Development, or CHLD 10H Child Growth and 3.0 CSU, UC Development – Honors, or SOC 1 Sociology 3.0 CSU, UC PSYC 1A General Psychology 3.0 CSU, UC 3.0 CSU, UC PSYC 19 Abnormal Psychology SOC 14 Marriage and the Family 3.0 CSU, UC **Child Development** SOC 15 3.0 CSU, UC **Total Units** 40.0 Selection Procedure: All classes are open to all students who meet admission

requirements and course prerequisites.

Special Instructions:

Restricted Electives must be taken prior to enrollment in Field Experience and can be taken in conjunction with core and skills courses.

Animation – Digital 2-Dimensional Art Department Certificate 61011

The Digital 2-D Certificate provides training for creative careers that integrate animation with video, audio, graphics and special effects for Websites, broadcast, film, presentation or mobile content.

The Animation Program offers an integrated/ interdisciplinary approach to prepare students to meet current and future job market demands. The student will be given a balanced blend of art and technology-based skills which are essential for today's careers in animation. The program offers an A.S. Degree and three certificates. Course content is driven by industry needs in order to provide the student with the best possible preparation for a career in animation.

Requirements for the Certificate Required courses:

ANIM 101	Drawing – Gesture and Fig	ure	3.0	CSU
ANIM 104	Drawing Fundamentals		3.0	CSU
ANIM 108	Principles of Animation		3.0	CSU
ANIM 115	Storyboarding		3.0	
ANIM 116	Character Development		1.5	
ANIM 119	Portfolio, <u>or</u>		1.5	
ARTC 66	Portfolio		3.0	
ANIM 120	Script Development for Animation		3.0	
ANIM 172	Motion Graphics with After Effects		3.0	
ANIM 175	Web Animation with Flash		3.0	
ARTC 70	Computer Graphics: Introduction		3.0	CSU
ARTC 74	Computer Graphics: Web Design		3.0	CSU
ARTD 17A	Drawing: Life		3.0	CSU, UC
	Total Units 3	3.0 - 3	4.5	
Recommen	ded Electives:			
ANIM 107	Figure in Motion			
ANIM 109	Advanced Principles of Ani	mation		
ANIM 130	Introduction to 3-D Compu	iter Ani	mati	on
ANIM 137A	Work Experience in New Di	igital M	edia	, <u>or</u>
ANIM 137B	Work Experience in New Di	igital M	edia	, <u>or</u>
ANIM 137C	Work Experience in New Di	igital M	edia	
ANIM 148	Demo-Reel			
ARTD 16	Drawing: Perspective			
ARTD 20	Design: Two Dimensional			
PHOT 10	Beginning Photography			

Animation – Digital 3-Dimensional Art Department Certificate 61012

The Digital 3-D Certificate provides training in 3-D animation including character modeling, lighting, texture, environment and special effects that lead to creative careers in film, television and the video game industry. The Animation Program offers an integrated/

interdisciplinary approach to prepare students to meet current and future job market demands. The student will be given a balanced blend of art and technology-based skills which are essential for today's careers in animation. The program offers an A.S. Degree and three Certificates. Course content is driven by industry needs in order to provide the student with the best possible preparation for a career in animation.

Requirements for the Certificate Reauired courses:

ANIM 101 ANIM 104 ANIM 108 ANIM 108 ANIM 115 ANIM 116 ANIM 130 ANIM 132 ANIM 134	Drawing – Gesture and Figure Drawing Fundamentals Principles of Animation Storyboarding Character Development Introduction to 3-D Computer Animation Modeling, Texture Mapping and Lighting Visual Effects I: Dynamics	3.0	CSU CSU CSU	and futi balance essentia an A.S. driven b with the Require ANIM 1 ANIM 1
ANIM 135	Visual Effects II: Particle Systems	1.5		ANIM 1 ANIM 1
ANIM 136 ANIM 145 ANIM 146 ANIM 148 ARTC 70 ARTD 17A	Animation Environment Layout Advanced 3-D Modeling 3-D Animation Demo-Reel Computer Graphics: Introduction Drawing: Life Total Units		CSU CSU, UC	ANIM 1 ANIM 1 ANIM 1 ANIM 1 ARTC 16 ANIM 1 ARTC 66
	ded Electives:			ANIM 1
ANIM 107 ANIM 109 ANIM 119 ARTC 66	Figure in Motion Advanced Principles of Animatic Portfolio, <u>or</u> Portfolio	n		ANIM 1 Artc 70
	Script Development for Animati Work Experience in New Digital Work Experience in New Digital Work Experience in New Digital	Media Media	, <u>or</u>	ARTD 1 ARTD 1 ARTD 2

ANIM 172	Motion Graphics with After Effects
ANIM 175	Web Animation with Flash
ARTD 16	Drawing: Perspective
ARTD 17B	Drawing: Life
ARTD 20	Design: Two Dimensional
ARTS 41A	Sculpture: Life
PHOT 10	Beginning Photography

Animation – Traditional Art Department Certificate 61010

The Traditional Certificate provides training based around the principles of storytelling and animation. These skills lead to careers in television, film, Internet and gaming as an animator, character designer, storyboard artist, layout artist or director.

The Animation Program offers an integrated/ interdisciplinary approach to prepare students to meet current and future job market demands. The student will be given a ed blend of art and technology-based skills which are ial for today's careers in animation. The program offers Degree and three Certificates. Course content is by industry needs in order to provide the student he best possible preparation for a career in animation.

irements for the Certificate ed courses:

edia		Total Units 3	9.0 - 40.5	
edia, <u>or</u>	ARTD 23A	Drawing: Head and Hands	1.5	CSU, UC
edia, <u>or</u>	ARTD 17A	Drawing: Life	3.0	'
	ARTD 16	Drawing: Perspective		CSU, UC
		Introduction		
	ARTC 70	Computer Graphics:		CSU
	ANIM 175	Web Animation with Flash	a 3.0	
	ANIM 120	Script Development for Animation	3.0	
	ARTC 66	Portfolio	3.0	
9.0	ANIM 119	Portfolio, <u>or</u>	1.5	
3.0 CSU,UC	ARTC 165	Illustration		CSU
5.0 (50		Layout, <u>or</u>		
3.0 CSU	ANIM 117	Animation Background	3.0	CSU
5.0 1.5	ANIM 116	Character Development	1.5	
3.0 3.0	ANIM 115	Storyboarding	3.0	
3.0 3.0	ANIM 111	Animal Drawing	1.5	
3.0	ANIM 109	Animation	5.0	
1.5	ANIM 108 ANIM 109	Principles of Animation Advanced Principles of	3.0 3.0	(30
1.5	ANIM 104 ANIM 108	Drawing Fundamentals	3.0	CSU CSU
	ANIM 101	Drawing – Gesture and Fig	, ,	CSU
5.0				

Recommend														
			BUSC 1A	Principles of Economics –	3.0	CSU, UC	-	nents for the Certificate			PHYS 2AG	General Physics		CSU, U
	Figure in Motion			Macroeconomics, <u>or</u> Drinciples of Economics	2.0		Required co		1000		PSYC 1A	Introduction to Psychology, <u>or</u>		CSU, U
	Introduction to 3-D Computer An		BUSC 1AH	Principles of Economics – Macroeconomics – Honors	3.0	CSU, UC		of the Architectural Technology – 31 units) as follows:	- Leve	91	PSYC 1AH	Introduction to Psychology –	3.0	CSU, U
	Work Experience in New Digital		ENGL 1A	Freshman Composition, or	3.0	CSU, UC			2.0	CC 11	PSYC 33	Honors Psychology for Effective Living	30	CSU
	Work Experience in New Digital		ENGL 1AH	Freshman Composition –		CSU, UC	ARCH 10	Design I – Elements of Design		CSU	SOC 1	Sociology, <u>or</u>		CSU, U
	Work Experience in New Digital	Viedia		Honors	5.0	00,00	ARCH 11	Architectural Drawing		CSU, UC	SOC 1 SOC 1H	Sociology, <u>or</u> Sociology – Honors		CSU, U
	Drawing: Life		ENGL 1B	English – Introduction to	3.0	CSU, UC	ARCH 12	Architectural Materials and Specifications	3.0	CSU	SPCH 1A	Public Speaking, <u>or</u>		CSU, U
	Design: Two Dimensional			Literary Types, <u>or</u>			ARCH 13	Architectural Illustration	3 0	CSU, UC	SPCH 1AH	Public Speaking – Honors		CSU, U
	Design: Three-Dimensional		ENGL 1BH	English – Introduction to	3.0	CSU, UC	ARCH 13	Building and Zoning Codes	3.0			rubiic speaking – nonois	5.0	(30,0
	Sculpture: Life			Literary Types – Honors			ARCH 15	Architectural Working		CSU	PLUS			
PHOT 8	Digital Photography		ENGL 1C	Critical Thinking and	3.0	CSU, UC	Anch 15	Drawings – I	5.0	CJU	Level II as fo	required courses:		
				Writing, <u>or</u>			ARCH 16	Basic CAD and Computer	4.0	CSU, UC				
	ctural Technology – I	Level I	ENGL 1CH	Critical Thinking and	3.0	CSU, UC		Application			ARCH 21	Design II – Architectural Design		CSU
Architectu Design De	ure and Engineering		FCS 41	Writing — Honors Life Management	3 0	CSU	ARCH 18	Architectural Computer	3.0		ARCH 23	Architectural Presentations		CSU
Certificate			HIST 3	History of World Civilization				Aided Design Elements			ARCH 26	Architectural CAD Working	3.0	
This multi-le	evel certificate program is intend	ed to prenare	MATH 51	Elementary Algebra	3.0 4.0	CJU, UC	PLUS				EDT 20	Drawings Technical Descriptive Geometry	3 V	CSU
	enter the field of architecture an		MATH 31 MATH 71	Intermediate Algebra	4.0 5.0			ct six units from:	_			recumical pescriptive depinetry	5.0	00
	udent is provided with an option		MATH 150	Trigonometry		CSU	ARTA 5	History of Western Art:		CSU, UC	PLUS Calantations	(2)		
	t into the field or preparation for		PHIL 5	Introduction to Philosophy, <u>or</u>		CSU, UC	ARTA 5H	Renaissance Through Modern, <u>or</u>				e (3) units from:		<i>cc</i> 11 11
	onal school of architecture. The s		PHIL 5H	Introduction to Philosophy –		CSU, UC	AKIA SH	History of Western Art: Renaissance Through Modern –	3.0	CSU, UC	ARTA 5	History of Western Art: Renaissance Through Modern, <u>or</u>		CSU, U
	to develop both design and wor		11112 511	Honors	5.0	00,00		Honors			ARTA 5H	History of Western Art:		CSU, U
	urrent technology and computer		PHIL 12	Ethics, <u>or</u>	3.0	CSU, UC	BIOL 5	Contemporary Health Issues	3.0	CSU, UC		Renaissance Through Modern –	5.0	C30,0
is also availa	ed into the program. An A.S. Deg	liee program	PHIL 12H	Ethics – Honors	3.0	CSU, UC	BIOL 6	Humans and the Environment		CSU, UC		Honors		
			PHYS 2AG	General Physics	4.0	CSU, UC	BUSC 1A	Principles of Economics –		CSU, UC	BIOL 5	Contemporary Health Issues	3.0	CSU, U
Required cou	nents for the Certificate		PSYC 1A	Introduction to Psychology, or	3.0	CSU, UC		Macroeconomics, <u>or</u>			BIOL 6	Humans and the Environment	3.0	CSU, U
•	Design I — Elements of Design	3.0 CSU	PSYC 1AH	Introduction to Psychology –	3.0	CSU, UC	BUSC 1AH	Principles of Economics –	3.0	CSU, UC	BUSC 1A	Principles of Economics –	3.0	CSU, U
	Architectural Drawing	3.0 CSU, UC		Honors				Macroeconomics – Honors				Macroeconomics, <u>or</u>		
	Architectural Materials and	3.0 CSU, UC 3.0 CSU	PSYC 33	Psychology for Effective Living		CSU	ENGL 1A	Freshman Composition, <u>or</u>		CSU, UC	BUSC 1AH	Principles of Economics –	3.0	CSU, U
	Specifications	5.0 (50	SOC 1	Sociology, <u>or</u>		CSU, UC	ENGL 1AH	Freshman Composition –	3.0	CSU, UC		Macroeconomics – Honors		
	Architectural Illustration	3.0 CSU, UC	SOC 1H	Sociology – Honors		CSU, UC	ENCL 1D	Honors	~ ^		ENGL 1A	Freshman Composition, <u>or</u>		CSU, U
	Building and Zoning Codes	3.0	SPCH 1A	Public Speaking, <u>or</u>		'	ENGL 1B	English — Introduction to Literary Types, <i>or</i>	3.0	CSU, UC	ENGL 1AH	Freshman Composition –	3.0	CSU, U
	Architectural Working	3.0 CSU	SPCH 1AH	Public Speaking – Honors	3.0	CSU, UC	ENGL 1BH	English – Introduction to	3 0	CSU, UC	ENGL 1B	Honors English – Introduction to	2 0	CSU, U
	Drawings – I			Total Units	31.0			Literary Types – Honors	5.0	C30,0C	ENGL ID	Literary Types, <u>or</u>	5.0	C30,0
ARCH 16	Basic CAD and Computer	4.0 CSU, UC					ENGL 1C	Critical Thinking and Writing, <u>or</u>	3.0	CSU, UC	ENGL 1BH	English – Introduction to	3.0	CSU, U
	Application		Archite	ctural Technology –	Leve	el II	ENGL 1CH	Critical Thinking and		CSU, UC	2.1.52 1011	Literary Types – Honors	2.0	
	Architectural Computer	3.0	Architect	ure and Engineering				Writing – Honors		,	ENGL 1C	Critical Thinking and Writing, or	3.0	CSU, U
	Aided Design Elements			epartment			FCS 41	Life Management	3.0	CSU	ENGL 1CH	Critical Thinking and Writing –	3.0	CSU, U
PLUS			Certificat				HIST 3	History of World Civilization	3.0	CSU, UC		Honors		-
Select six (6)				evel Certificate program is inten			MATH 51	Elementary Algebra	4.0		FCS 41	Life Management		CSU
	History of Western Art: Renaissance Through Modern, <u>or</u>	3.0 CSU, UC		enter the field of architecture a			MATH 71	Intermediate Algebra	5.0		HIST 3	History of World Civilization	3.0	CSU, U
	History of Western Art:	3.0 CSU, UC		tudent is provided with an option t into the field or preparation for			MATH 150	Trigonometry	3.0	CSU	MATH 51	Elementary Algebra	4.0	
	Renaissance Through	J.0 (JU, UC		ional school of architecture. The			PHIL 5	Introduction to Philosophy, <u>or</u>	3.0	CSU, UC	MATH 71	Intermediate Algebra	5.0	
	Modern – Honors			to develop both design and wo			PHIL 5H	Introduction to Philosophy –	3.0	CSU, UC	MATH 150	Trigonometry		CSU
	Contemporary Health Issues	3.0 CSU, UC		Current technology and compute				Honors			PHIL 5	Introduction to Philosophy, <u>or</u>		CSU, U
		3.0 CSU, UC		ted into the program. An A.S. De			PHIL 12	Ethics, <u>or</u>	3.0	CSU, UC	PHIL 5H	Introduction to Philosophy –	3.0	CSU, U
BIOL 6	Humans and the Environment	J.0 CJ0,0C					PHIL 12H	Ethics – Honors		CSU, UC		Honors		

	Total Units	46.0		
SPCH 1AH	Public Speaking – Honors	3.0	CSU, UC	PI Le
SPCH 1A	Public Speaking, <u>or</u>	3.0	CSU, UC	
SOC 1H	Sociology – Honors	3.0	CSU, UC	Re
SOC 1	Sociology, <u>or</u>	3.0	CSU, UC	PI
PSYC 33	Psychology for Effective Living	3.0	CSU	EC
PSYC 1AH	Introduction to Psychology – Honors	3.0	CSU, UC	AF
PSYC 1A	Introduction to Psychology, or		CSU, UC	AF
PHYS 2AG	General Physics	4.0	CSU, UC	AF
PHIL 12H	Ethics – Honors	3.0	CSU, UC	Le
PHIL 12	Ethics, <u>or</u>	3.0	CSU, UC	Re

Architectural Technology – Level III Architecture and Engineering **Design Department** Certificate 60204

PROGRAMS OF STUDY LEADING TO A CERTIFICATE

certificat				
This multi-	Plus select s	ix (6) u		
students to	PLUS			
	student is provided with an optic		Select six (6	5) units
	nt into the field or preparation fo		ARTA 5	Histo
	sional school of architecture. The			Renai
	d to develop both design and wo Current technology and compute		ARTA 5H	Histo
	ted into the program. An A.S. De			Renai Hono
is also avai		gree program	BIOL 5	Conte
Require	ments for the Certificate		BIOL 5 BIOL 6	Huma
•	n of the Architectural Technology:	Lovel Land	BUSC 1A	Princi
	tificates (46 units).	LEVELLATIO	DUSCIA	Macro
Required o			BUSC 1AH	Princi
Level I as fo			bose mar	Macro
ARCH 10	Design I – Elements of Design	3.0 CSU	ENGL 1A	Fresh
ARCH 10	Architectural Drawing	3.0 CSU, UC	ENGL 1AH	Fresh
ARCH 12	Architectural Materials and	3.0 CSU		Hono
ANCH 12	Specifications	5.0 (50	ENGL 1B	Englis
ARCH 13	Architectural Illustration	3.0 CSU, UC		Litera
ARCH 14	Building and Zoning Codes	3.0	ENGL 1BH	Englis
ARCH 15	Architectural Working	3.0 CSU		Litera
	Drawings – I		ENGL 1C	Critica
ARCH 16	Basic CAD and Computer	4.0 CSU, UC	ENGL 1CH	Critica Hono
	Application		FCS 41	Life N
ARCH 18	Architectural Computer	3.0	HIST 3	Histor
	Aided Design Elements		MATH 51	Eleme
Plus select s	six (6) units from General Educatior	n Restricted list.	MATH 51 MATH 71	Interr
			MATH 150	Trigo
			I MATH 150	

c c	Required co Level II as fo				PHIL 5 Phil 5h
	ARCH 21 ARCH 23 ARCH 26	Design II – Architectural Design Architectural Presentations Architectural CAD Working Drawings		CSU CSU	PHIL 12 Phil 12h Phys 2Ag
c	EDT 20 Plus select ti Restricted lis	Technical Descriptive Geometry hree (3) units from General Education		CSU	PSYC 1A PSYC 1AH
C		llowing courses:	3.0	CSU, UC	PSYC 33 SOC 1 SOC 1H SPCH 1A
-	ARCH 28	Design Architectural CAD 3-D Illustration and Animation	3.0	CSU	SPCH 1AH
	ARCH 29	Design IV — Advanced Project	3.0	CSU	Art: A
5	PLUS	ix (6) units from General Education	Restr	icted list.	Art Dep Certifica
) units from:	2.0		The certif
	ARTA 5	History of Western Art: Renaissance Through Modern, <u>or</u>	3.0	CSU, UC	thinking a seeking ci
	ARTA 5H	History of Western Art: Renaissance Through Modern – Honors	3.0	CSU, UC	skills nece A variety Advertisin
	BIOL 5	Contemporary Health Issues	3.0	,	MultiMed
	BIOL 6	Humans and the Environment		CSU, UC	current ce Departme
	BUSC 1A	Principles of Economics – Macroeconomics, <u>or</u>	3.0	CSU, UC	Departme
	BUSC 1AH	Principles of Economics – Macroeconomics – Honors	3.0	CSU, UC	Departme would fin
	ENGL 1A	Freshman Composition, or		CSU, UC	Require
C	ENGL 1AH	Freshman Composition – Honors	3.0	CSU, UC	Required ARTC 70
с	ENGL 1B	English – Introduction to Literary Types, <u>or</u>	3.0	CSU, UC	ARTC 171
	ENGL 1BH	English — Introduction to Literary Types — Honors		CSU, UC	
	ENGL 1C	Critical Thinking and Writing, <u>or</u>		CSU, UC	ARTD 15A
C	ENGL 1CH	Critical Thinking and Writing – Honors		CSU, UC	ARTD 20
	FCS 41 HIST 3	Life Management History of World Civilization		CSU CSU, UC	Recomme
	MATH 51	Elementary Algebra	5.0 4.0	(30,00	ARTC 60
	MATH 71	Intermediate Algebra	5.0		ARTC 74
	MATH 150	Trigonometry		CSU	ARTC 161 ARTC 165 ARTD 25A

Art: Aasthatics for Tachnology				
	Total Units	52.0		
SPCH 1AH	Public Speaking – Honors	3.0	CSU, UC	
SPCH 1A	Public Speaking, <u>or</u>	3.0	CSU, UC	
50C 1H	Sociology – Honors	3.0	CSU, UC	
50C 1	Sociology, <u>or</u>	3.0	CSU, UC	
PSYC 33	Psychology for Effective Living	3.0	CSU	
	Honors	5.0	(30,00	
PSYC 1A	Introduction to Psychology, <u>or</u> Introduction to Psychology –			
PSYC 1A	General Physics		CSU, UC CSU, UC	
PHIL 12H Phys 2Ag	Ethics – Honors		CSU, UC	
	· _		'	
PHIL 12	Honors Ethics, <i>or</i>	3.0	CSU, UC	
PHIL 5H	Introduction to Philosophy –	3.0	CSU, UC	
PHIL 5	Introduction to Philosophy, or	3.0	CSU, UC	

Art: Aesthetics for Technology Art Department Certificate 61013

The certificate program is designed for the student thinking about joining the professional work force or seeking current job advancement. It provides design skills necessary in art and technology related industries. A variety of career opportunities are available in Art, Advertising, Graphic Design, Animation, Journalism, and MultiMedia. Working professionals or students who hold current certificates offered by the Office Technology Department, Photographics, Architecture and Design Department, the Family and Consumer Sciences Department, and wish to augment their design skills, would find this certificate beneficial. **Requirements for the Certificate Required courses:** ARTC 70 Computer Graphics: 3.0 CSU Introduction ARTC 171 Computer Graphics 2: 3.0 CSU Layout and Design with QuarkXpess ARTD 15A Drawing: Beginning 3.0 CSU, UC

Total Units Recommended Electives:

ARTC 60 Graphic Design: Lettering and Typography ARTC 74 Computer Graphics: Web Page Design ARTC 161 Graphic Design: Layout

Design: Two Dimensional

12.0

- ARTC 165 Illustration
- ARTD 25A Painting: Beginning

Athletic Trainer Aide I **Physical Education Department** Certificate 60802 The Athletic Trainer Aide I Certificate provides minimal experience necessary to assist High School Athletic Trainers and Athletic Health Care Providers in the community. Students desiring a Bachelor's Degree

(transfer program) should consult with an advisor to discuss transferability of courses.

Requirements for the Certificate Required courses:

	Total Units	11.0	
PE 92	Work Experience – Athletic Training	2.0	
PE 34	Fitness for Living	3.0	CSU, UC
	Prevention of Activity/ Sports-Related Injuries		
PE 19	Emergency Response Introduction to Care/	3.0	CSU, UC
PE 5	Advanced First Aid/CPR/	3.0	CSU
PE 3	First Aid and CPR, or	3.0	CSU, UC

Business: Human Resource Management – Level I Accounting and Management Department Certificate 60531

This introductory certificate exposes students to the business world and the role of human resources. Students become familiar with various approaches to business organization and the strategic nature of human resources. This certificate may aid the student's search for an entrylevel job in the business world.

Requirements for the Certificate Required courses:

12.0		Snocial Inf	ormation.		
3.0	CSU, UC		Total Units	9.0	
		BUSM 62	Human Resource Management	3.0	
			and Management		
		BUSM 61	Business Organization	3.0	CSU
3.0	CSU	BUSM 20	Principles of Business	3.0	CSU, UC

Special Information:

Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.

Business: Human Resource Management – Level II Accounting and Management Department	Requirements for the Certificate Completion of Human Resource Management – Level I and Level II Certificate (18 Units) as follows: <i>Required courses:</i>	Special Information: Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.	Business: International – Level III Accounting and Management Department Certificate 60528	
Certificate 60534 This certificate builds upon the Level I Certificate to provide students with specific knowledge of human resource management functions. HR law, compensations systems, and an understanding of human motivation provide the student with a solid foundation from which to build a career in human resources.	Level I as follows: BUSM 20 Principles of Business 3.0 CSU, UC BUSM 61 Business Organization 3.0 CSU and Management BUSM 62 Human Resource Management 3.0 Required courses: 3.0 SU	Business: International – Level II Accounting and Management Department Certificate 60507 In the Business: International – Level II Certificate student will learn methods and approaches to managing	Upon completion of the Business: International Level III Certificate, students will have acquired the specific skills needed to successfully complete international business transactions. Students will gain a practical, hands-on perspective of how to compete in a global system of conflicting laws, regulations, and requirements.	
Requirements for the Certificate Completion of the Business: Human Resource Management – Level I Certificate (9 Units). Required courses: Level I as follows:	Level II as follows:3.0CSU, UCANTH 22General Cultural Anthropology3.0CSU, UCBUSM 60Human Relations in Business3.0CSUBUSO 25Business Communications, or BUSO 25A3.0CSUBUSO 25ABusiness Communications A, 1.51.5CSU	the complexities of doing business in an international environment. Students acquire both theoretical knowledge and practical skills related to managing and marketing within the global arena. Students active in the workforce will acquire new skills that are highly desirable in a fast-paced dynamic global environment, with an environment on the area! business account of	Requirements for the Certificate Completion of the Business: International – Level I and II Certificates (18 Units) as follows: Required courses: Level I as follows: BUSM 20 Principles of Business 3.0 CSU, UC	
BUSM 20 Principles of Business 3.0 CSU, UC BUSM 61 Business Organization and Management 3.0 CSU BUSM 62 Human Resource Management 3.0	and BUSO 25B Business Communications B 1.5 CSU Plus the following courses:	emphasis on the small business perspective. Requirements for the Certificate Completion of the Business: International – Level I certificate (9 Units) as follows:	BUSM 51Principles of International Business3.0BUSS 36Principles of Marketing3.0CSU	
Plus the following courses: Level II as follows:	Level III as follows: BUSA 70 Payroll and Tax Accounting 3.0 CISB 15 Microcomputer Applications 4.0 CSU, UC	Required courses: BUSM 20 Principles of Business 3.0 CSU, UC BUSM 51 Principles of International 3.0	Required courses: Level II as follows: BUSM 61 Business Organization 3.0 CSU	
ANTH 22General Cultural Anthropology3.0CSU, UCBUSM 60Human Relations in Business3.0CSUBUSO 25Business Communications, or3.0CSUBUSO 25ABusiness Communications A, and1.5CSU	Total Units25.0Special Information:Students receiving financial aid need to declare theLevel III Certificate as their goal to meet Financial Aidrequirements.	Business BUSS 36 Principles of Marketing 3.0 CSU Plus the following courses: Level II as follows:	and Management BUSM 66 Small Business Management 3.0 PLUS Select one (1) course from: BUSS 70 International Marketing 3.0	
BUSO 25B Business Communications B 1.5 CSU Total Units 18.0 Special Information: Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid	Business: International – Level I Accounting and Management Department Certificate 60527 This specialized business certificate is intended to	BUSM 61 Business Organization and Management 3.0 CSU BUSM 66 Small Business Management 3.0 PLUS Select one (1) course from: 2.0	ConceptsCHIN 1Beginning Chinese4.0CSU, UCFRCH 1Elementary French4.0CSU, UCGERM 1Elementary German4.0CSU, UCITAL 1Elementary Italian4.0CSU, UC	
requirements. Business: Human Resource Management – Level III Accounting and Management Department Certificate 60535	prepare the student to work in the unique and dynamic environment of international business. This program also prepares the student as a business management generalist for companies conducting international trade. This program will afford career opportunities for entry- level employment in international sales and marketing.	BUSS 70International Marketing Concepts3.0CHIN 1Beginning Chinese4.0CSU, UCFRCH 1Elementary French4.0CSU, UCGERM 1Elementary German4.0CSU, UCITAL 1Elementary Italian4.0CSU, UC	JAPN 1 Elementary Japanese 4.0 CSU, UC SPAN 1 Elementary Spanish 4.0 CSU, UC PLUS Additional required courses: Level III as follows: BUSL 20 International Business Law 3.0	
Students completing the Level III Certificate will have knowledge and practical experience in business communications and computer use. Successful completion	Requirements for the Certificate Required courses: BUSM 20 Principles of Business 3.0 CSU, UC BUSM 11 Distribute of International	JAPN 1 Elementary Japanese 4.0 CSU, UC SPAN 1 Elementary Spanish 4.0 CSU, UC Total Units 18.0 - 19.0	BUSM 50World Culture: A Business Perspective, <u>or</u> 3.0ANTH 22General Cultural Anthropology3.0CSU, UC	
of this certificate prepares students to handle the increasing diversity and complexity of modern human resource management. Completing the advanced certificate will help those working in the human resource field to prepare for professional certification by the Human Resource Certification Institute.	BUSM 51Principles of International Business3.0BUSS 36Principles of Marketing Total Units3.09.0	Special Information: Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.	BUSM 52Principles of Exporting and Importing3.0Total Units27.0 - 28.0	

Recommended Electives:

BUSM 81	Work Experience in Business, <u>or</u>
BUSM 82	Work Experience in Business, <u>or</u>
BUSM 83	Work Experience in Business, <u>or</u>
BUSM 84	Work Experience in Business, <u>or</u>
BUSM 85	Special Issues in Business
BUSS 85	Special Issues in Marketing

Special Information:

Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.

Business: Management – Level I Accounting and Management Department Certificate 60525

The Business Management – Level I Certificate is designed to introduce the student to the role of management in business. Management is the efficient use of human and capital resources to accomplish organizational objectives. Students will be exposed to the terms, trends, organizational structure, and opportunities inherent in business management. Upon completion of the Business: Management – Level I Certificate students may qualify for an entry-level management position in California's diverse economy.

Requirements for the Certificate *Required courses:*

	Total Units	9.0	
BUSS 36	Principles of Marketing	3.0	CSU
	and Management		
BUSM 61	Business Organization	3.0	CSU
BUSM 20	Principles of Business	3.0	CSU, UC

Special Information:

Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.

Business: Management – Level II Accounting and Management Department Certificate 60506

This certificate builds upon the Level I Certificate to provide students with proven business tools that will enhance their management careers. Students will be exposed to projects and business simulations that will lead to measurable successes. Business presentations, business planning, team building, conflict resolution, and computer use are core skills developed in this certificate.

Completion of Business: Management Level I Certificate (9 units) as follows:				
Required co	ourses:			
BUSM 20	Principles of Business	3.0	CSU, UC	
BUSM 61	Business Organization and Management	3.0	CSU	
BUSS 36	Principles of Marketing	3.0	CSU	
<i>Plus the fo</i> Level II as fo	<i>llowing courses:</i> ollows:			
BUSM 60	Human Relations in Business	3.0	CSU	
BUSM 62	Human Resource Management	3.0		
CISB 15	Microcomputer Applications	4.0	CSU, UC	
	Total Units	19.0		
Special Information: Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.				

Requirements for the Certificate

Business: Management – Level III Accounting and Management Department Certificate 60526

Upon completion of the Business: Business Management – Level III Certificate, students will have built a foundation of management strategies and practices which will enable them to prosper in an everchanging business environment. Students will have a strategic perspective of production, marketing, accounting, international business and human resources. Completion of the Business: Management – Level III Certificate will lead to new opportunities and provide students with a solid foundation upon which to build a management career.

Requirements for the Certificate

Completion of the Business: Management – Level I and Level II Certificates (18.5 Units) as follows:

Required courses:

Level I as fo	Level I as follows:				
BUSM 20	Principles of Business	3.0	CSU, UC		
BUSM 61	Business Organization and Management	3.0	CSU		
BUSS 36	Principles of Marketing	3.0	CSU		
	Required courses:				
Level II as f	ollows:				
BUSM 60	Human Relations in Business	3.0	CSU		
BUSM 62	Human Resource Management	3.0			
CISB 15	Microcomputer Applications	4.0	CSU, UC		

	Plus the fo Level III as	<i>llowing courses:</i> follows:	
	BUSA 7	Principles of Accounting – Financial	5.0 CSU, UC
JC	BUSM 10	Principles of Continuous Quality Improvement	3.0
	BUSM 51	Principles of International Business	3.0
		Total Units	30.0
		eceiving financial aid need to rtificate as their goal to meet	

Business: Retail Management – Level I

Accounting and Management Department Certificate 60500

This introductory certificate exposes students to the business world and the role of retail distribution. Students become familiar with careers in retail management, as well as the latest trends in this fast changing field. This certificate may aid the student's search for an entry-level iob in retail management.

Requirements for the Certificate *Required courses:*

BUSO 25	Business Communications
CISB 15	Microcomputer Applications
FASH 62	Retail Store Management
	and Merchandising, or
BUSS 50	Retail Store Management

Total Units

Retail Store Management 3.0 and Merchandising

3.0 CSU

3.0 CSU

10.0

4.0 CSU, U

Special Information:

Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.

Business: Retail Management – Level II

Accounting and Management Department Certificate 60501

This intermediate certificate builds upon the Level I Certificate to expose students to the various functions of managers in retail positions. Fundamentals of business organization, retail marketing and staffing provides the student a solid foundation from which to build a career in retail management.

Completion of the Retail Management – Level I Certificate (9.5 Units) as follows:						
Required c	ourses:					
BUSO 25	Business Communications	3.0	CSU			
BUSS 50	Retail Store Management and Merchandising, <u>or</u>	3.0				
FASH 62	Retail Store Management and Merchandising	3.0	CSU			
CISB 15	Microcomputer Applications	4.0	CSU, UC			
<i>Plus the following courses:</i> Level II as follows:						
BUSA 11	Fundamentals of Accounting	3.0				
BUSM 61	Business Organization and Management	3.0	CSU			
BUSM 62	Human Resource Management	3.0				
BUSS 36	Principles of Marketing	3.0	CSU			
	(9.5 Units) Required a BUSO 25 BUSS 50 FASH 62 CISB 15 Plus the fo Level II as f BUSA 11 BUSM 61 BUSM 62	(9.5 Units) as follows:Required courses:BUSO 25Business CommunicationsBUSS 50Retail Store Management and Merchandising, <u>or</u> FASH 62Retail Store Management and MerchandisingCISB 15Microcomputer ApplicationsPlus the following courses:Level II as follows:BUSA 11Fundamentals of AccountingBUSM 61Business Organization and ManagementBUSM 62Human Resource Management	(9.5 Units) as follows:Required courses:BUSO 25Business Communications3.0BUSS 50Retail Store Management3.0and Merchandising, orand Merchandising, or3.0FASH 62Retail Store Management3.0and Merchandisingand Merchandising3.0CISB 15Microcomputer Applications4.0Plus the following courses:Level II as follows:BUSA 11Fundamentals of Accounting3.0BUSM 61Business Organization and Management3.0BUSM 62Human Resource Management3.0			

Requirements for the Certificate

Total Units

Special Information:

Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.

22.0

Business: Retail Management – Level III

Accounting and Management Department Certificate 60521

Students completing the advanced Level III Certificate will have knowledge and practical experience in business communication, leadership and financial controls. Successful completion of this certificate prepares students to handle the increasing diversity and complexity of modern retail management.

Requirements for the Certificate

Completion of the Retail Management – Level I certificate (9.5 Units) as follows:

Required courses:

BUSO 25	Business Communications	3.0	CSU
BUSS 50	Retail Store Management and Merchandising, <u>or</u>	3.0	
FASH 62	Retail Store Management and Merchandising	3.0	CSU
CISB 15	Microcomputer Applications	4.0	CSU, UC

Children's Program Certificate:

Administration

3.0 CSU, UC

5.0 CSU, UC

4.0 CSU, UC

	<i>courses:</i> n of the Retail Management — Lev s) as follows:	vel II certificate		ess: Small Business gement – Level II			Completion	ments for the Certificate n of Business: Small Business Mar II Certificates (18.5 Units) as follo		ent
BUSA 11 BUSM 61 BUSM 62 BUSS 36 Plus the fe Level III as BUSA 7	Principles of Accounting –	3.0 3.0 CSU 3.0 3.0 CSU 5.0 CSU,UC	Certificae The Busine Certificate tools. This teamwork productivi Completio	Certificate 60508 The Business: Small Business Management – Level II Certificate provides students with practical small business tools. This certificate focuses on issues such as motivation, teamwork, and leadership skills that lead to enhanced productivity through the development of people. Completion of this certificate will lead to new career opportunities for those currently employed in the small			Required of BUSM 20 BUSM 66 BUSS 36 Required of BUSM 60 BUSM 61	Principles of Business Small Business Management Principles of Marketing courses: Human Relations in Business Business Organization and Management	3.0 3.0 3.0 3.0	CSU CSU CSU CSU
BUSM 60 BUSO 26	Financial Human Relations in Business Oral Communications for Business	3.0 CSU 3.0	Require Completio	ments for the Certificate n of Business: Small Business Mar tificate (9 Units) as follows:	nagem	ent –	BUSM 62 <i>Plus the fo</i> Level III as BUSA 7	Human Resource Management Ilowing courses: follows: Principles of Accounting —		CSL
Total Units33.0Special Information:Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid		Required of BUSM 20 BUSM 66 BUSS 36	courses: Principles of Business Small Business Management Principles of Marketing	3.0	CSU, UC CSU	BUSM 10 CISB 15	Financial Principles of Continuous Quality Improvement Microcomputer Applications	3.0	CSL	
requireme			Plus the fo Level II as	ollowing courses: follows:			c	Total Units	30.0	
Business: Small Business Management – Level I Accounting and Management Department Certificate 60529			BUSM 60 BUSM 61 BUSM 62	Human Relations in Business Business Organization and Management Human Resource Management	3.0	CSU CSU	Special Information: Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.			
change wi	iness has been described as the e ithin the economy. The Business: ent — Level I Certificate exposes s	Small Business		Total Units	18.0			ss: Workplace Comp Administration Departme		ncie

Students receiving financial aid need to declare the fundamentals of managing and planning a small Level III Certificate as their goal to meet Financial Aid business. Upon completion students may qualify for an requirements. entry-level management position in a small business. Entrepreneurs may use this certificate as a means to plan

and develop new business ventures.

BUSM 20 Principles of Business

Required courses:

Special Information:

requirements.

BUSS 36

Requirements for the Certificate

BUSM 66 Small Business Management

Total Units

Principles of Marketing

Students receiving financial aid need to declare the

Level III Certificate as their goal to meet Financial Aid

3.0

9.0

3.0 CSU

Business: Small Business Management – Level III Accounting and Management Department Certificate 60530 3.0 CSU, UC

Upon completion of the Business: Small Business Management – Level III Certificate, students will have built a foundation of management strategies and practices which will enable them to prosper in an everchanging small business environment. Computer skills applicable to small business will be developed. Students will have a strategic perspective across all small business functions. Students will acquire the skills and abilities necessary to build a successful small business career.

nent pplications aid need to declare the oal to meet Financial Aid ce Competencies n Department Certificate 60532 This certificate program is designed for the student thinking about joining the professional workforce or seeking current job advancement. It covers the most

often listed requirements for employment and job advancement including professional communication, appearance and life management.

Requirements for the Certificate Reauired courses:

FASH 15 FCS 41	for Business Fashion Strategies Life Management	3.0 CSU 3.0 CSU
	Fashion Strategies	

Child Development Department Certificate 61313
The Children's Program Certificate: Administration Specialization is designed for the student who desires general knowledge about Early Childhood Development and skills in administering programs for young children. This certificate meets or exceeds Title 22 education requirements for Center Director. Direct experience with children is highly recommended to complete preparation to be an effective administrator.
Requirements for the Certificate

Completion of the Children's Program Certificate: General as follows:

Reauired courses:

nequireu co	u1363.		
CHLD 1	Child, Family and Community	3.0	CSU, UC
CHLD 5	Principles/Practices in Child Development Programs	3.0	CSU
CHLD 6	Survey of Child Development Curriculum	3.0	CSU
CHLD 10	Child Growth and Development, <u>or</u>	3.0	CSU, UC
CHLD 10H	Child Growth and Development — Honors	3.0	CSU, UC
CHLD 64	Health, Safety and Nutrition of Young Children	3.0	
CHLD 68	Children With Special Needs	3.0	CSU
CHLD 84	Guidance and Discipline in Child Development Settings	1.0	
PLUS			
Select three	(3) courses from:		
CHLD 61	Language Arts & Art Media for Young Children	3.0	
CHLD 62	Music and Motor Development for Young Children	3.0	CSU
CHLD 63	Creative Sciencing and Math for Young Children	3.0	
CHLD 73	Infant/Toddler Care and Development	3.0	CSU

PLUS			
Additional	required courses:		
CHLD 50	Multicultural Education: Anti-Bias Perspective	3.0	
CHLD 71A	Administration of Child Development Programs	3.0	CSU
CHLD 71B	Management/Marketing/ Personnel for ECD Programs	3.0	
CHLD 75	Supervising Adults in Early Childhood Settings	2.0	
PLUS			
Select four	(4) units from:		
	four (4) unit selection should not	t include	any
course you l	have previously taken.		
BUSM 66	Small Business Management	3.0	
CHLD 72	Teacher, Parent, and Child Relationships	3.0	
CHLD 73	Infant/Toddler Care and Development	3.0	CSU
CHLD 82	Advocacy in Early Childhood Development	1.0	
CHLD 83	Current Issues in Child Development	1.0	
	Total Units	43.0	

Children's Program Certificate: General – Level I **Child Development Department** Certificate 61326

The Children's Program Certificate: General – Level I is designed for the student who desires general knowledge about child development and who has an interest or awareness of teaching young children. This certificate meets Title 22 education requirements for fully qualified teachers.

Requirements for the Certificate Required courses:

	Total Units	12.0	
CHLD 10H	Child Growth and Development – Honors	3.0	CSU, UC
CHLD 10	Child Growth and Development, <u>or</u>		CSU, UC
CHLD 6	Survey of Child Development Curriculum	3.0	CSU
CHLD 5	Principles/Practices in Child Development Programs	3.0	CSU
CHLD 1	Child, Family and Community	3.0	CSU, UC

Children's Program Certificate: General – Level II Child Development Department Certificate 61328							
	This certificate enhances the student's knowledge beyond Level I, providing additional skills in working with your children.						
Requiren	nents for the Certificate						
Required co	ourses:						
	of the Children's Program Certif evel I, as follows:	icate:					
CHLD 1	Child, Family and Community	3.0	CSU, UC				
CHLD 5	Principles/Practices in Child Development Programs	3.0	CSU				
CHLD 6	Survey of Child Development Curriculum	3.0	CSU				
CHLD 10	Child Growth and Development, <u>or</u>	3.0	CSU, UC				
CHLD 10H	Child Growth and Development – Honors	3.0	CSU, UC				
Plus the fol	llowing courses:						
Level II as fo	bllows:						
CHLD 64	Health, Safety and Nutrition of Young Children	3.0					
CHLD 68	Children with Special Needs	3.0	CSU				
CHLD 84	Guidance & Discipline in Early Childhood Settings	1.0					
	Total Units	19.0					
Children's Program Certificate: General – Level III Child Development Department							
Certificat		ortificat					
This third level of the Children's Program Certificate:							

General is expected to meet or exceed Title 5 education requirements for Assistant Teacher, Associate Teacher, and Teacher (with 16 units of G.E.) **Requirements for the Certificate Required courses:** Completion of the Children's Program Certificate: General – Level I, as follows: CHLD 1 Child, Family and Community 3.0 CSU, UC CHLD 5 Principles/Practices in Child 3.0 CSU **Development Programs** CHLD 6 Survey of Child Development 3.0 CSU Curriculum

		Total Units	28.0		Certificat	e 61312 n's Program Certificat
	CHLD 73	Infant/Toddler Care and Development	3.0	CSU		velopment Depar
	CHLD 63	Creative Sciencing and Math for Young Children	3.0			en's Program (
,UC	CHLD 62	Music and Motor Development for Young Children		CSU	CISB 11	Computer Informati
, UC	CHLD 61	Language Arts & Art Media for Young Children	3.0	C (1)	BUSS 33 BUSS 36	Advertising and Prop Principles of Market
	CHLD 50	Multicultural Education: Anti-Bias Perspective	3.0		BUSM 61 BUSO 25	Business Organization
	Level III as f				BUSE 18H	Principles of Busines
,UC		e (3) courses from:			BUSL 18 BUSL 18H	Business Law, <u>or</u> Business Law – Hon
	PLUS	Early Childhood Settings			BUSA 71	Financial Planning
	CHLD 84	Guidance & Discipline in	1.0		BUSA 70	Payroll and Tax Acco
	CHLD 68	Children with Special Needs	3.0	CSU	Recommen	ded Electives:
	CHLD 64	Health, Safety and Nutrition of Young Children	3.0			Total Units
	Level II as fo				FCS 41	Life Management
ond		llowing courses:			CHLD 71B	Management/Marke
	CHLD 10H	Child Growth and Development – Honors	3.0	CSU, UC	CHLD 71A	Administration of Ch Development Progra
	CHLD 10	Child Growth and Development, <i>or</i>	3.0	CSU, UC	CHLD 64	Health, Safety and N Young Children

Children's Program Certificate: Small Business Management Child Development Department Certificate 61311

The Children's Programs Small Business Management Certificate provides information for operating or owning a preschool.

Requirements for the Certificate Required courses:

	BUSM 60	Human Relations in Business	3.0	CSU
	BUSM 66	Small Business Management	3.0	
	BUSO 5	Business English	3.0	
	CHLD 1	Child, Family and Community	3.0	CSU,
	CHLD 5	Principles/Practices in Child Development Programs	3.0	CSU
r	CHLD 6	Survey of Child Development Curriculum	3.0	CSU
•	CHLD 10	Child Growth and Development, <i>or</i>	3.0	CSU,
	CHLD 10H	Child Growth and Development – Honors	3.0	CSU,

J, UC	CHLD 64	Health, Safety and Nutrition of Young Children	3.0	
J, UC	CHLD 71A	Administration of Child Development Programs	3.0	CSU
	CHLD 71B	Management/Marketing/ Personnel for ECD Programs	3.0	
	FCS 41	Life Management	3.0	CSU
		Total Units	33.0	
J	Recommen	ded Electives:		
	BUSA 70	Payroll and Tax Accounting, or		
	BUSA 71	Financial Planning		
	BUSL 18	Business Law, <u>or</u>		
	BUSL 18H	Business Law – Honors		
	BUSM 20	Principles of Business		
	BUSM 61	Business Organization and Man	ageme	ent
	BUSO 25	Business Communications		
	BUSS 33	Advertising and Promotion		
	BUSS 36	Principles of Marketing		
J	CISB 11	Computer Information Systems		

Certificate: rtment

ate: Teaching Specialization is designed for the student who desires knowledge about Early Childhood Development and skills for teaching young children. This certificate meets or exceeds Title 22 education requirements for fully qualified teachers and is expected to meet or exceed Title 5 education requirements for Teacher Level (with 16 units of G.E. English, math or Science, Social Science and Humanities).

Requirements for the Certificate Required courses:

	CHLD 1	Child, Family and Community	3.0	CSU, UC
CSU	CHLD 5	Principles/Practices in Child Development Programs	3.0	CSU
CSU, UC	CHLD 6	Survey of Child Development Curriculum	3.0	CSU
CSU	CHLD 10	Child Growth and Development, <u>or</u>	3.0	CSU, UC
CSU	CHLD 10H	Child Growth and Development – Honors	3.0	CSU, UC
CSU, UC	CHLD 64	Health, Safety and Nutrition of Young Children	3.0	
CSU, UC	CHLD 68	Children with Special Needs	3.0	CSU
	CHLD 84	Guidance and Discipline in Child Development Settings	1.0	

Plus the following courses:

Plus the fol	lowing courses:		
CHLD 50	Multicultural Education: Anti-Bias Perspective	3.0	
CHLD 66	Early Childhood Development Observation	2.0	CSU
CHLD 66L	Early Childhood Development Observation Laboratory	1.0	CSU
CHLD 67	Early Childhood Development Participation	2.0	CSU
CHLD 67L	Early Childhood Development Participation Laboratory	1.0	CSU
CHLD 69	Early Childhood Development Field Work Seminar	2.0	
CHLD 75	Supervising Adults in Early Childhood Settings	2.0	
CHLD 91	Early Childhood Development Field Work	1.0	
PLUS			
Select two (2) courses from:		
CHLD 51	Early Literacy in Child Development	3.0	
CHLD 61	Language Arts & Art Media for Young Children	3.0	
CHLD 62	Music and Motor Development for Young Children	3.0	CSU
CHLD 63	Creative Sciencing and Math for Young Children	3.0	
	Total Units	39.0	

CIS Professional Certificate in C# Programming

Computer Information Systems Department Certificate 60722

This certificate is designed for returning CIS professionals with several years of experience or current students who have completed several CIS courses. This program prepares the student to develop applications using C# for Windows or Web based programs.

Requirements for the Certificate *Required courses:*

	Total Units	12.0
CISP 44	Advanced Programming in C#	4.0
CISP 41	Programming in C#	4.0
CISD 21	SQL Server	4.0

CIS Professional Certificate in C++ Programming Computer Information Systems Department Certificate 60714 This curriculum is designed for returning CIS professionals with several years of experience or current students who

with several years of experience or current students who have completed several CIS courses. This program will prepare the student to write applications in C++ and Visual C++ and provide a basic understanding of Object-Oriented Design.

Requirements for the Certificate *Required courses:*

	Total Units	8.0	
CISP 34	Advanced C++ Programming	4.0	CSU, UC
CISP 31	Programming in C++	4.0	CSU, UC

CIS Professional Certification in Database Management – Microcomputers

Computer Information Systems Department Certificate 60715

This curriculum is designed for returning CIS professionals with several years of experience or current students who have completed several CIS courses. This program will prepare the student to work and manage data using a PC-based Database Management System. The program covers the major topics of the Microsoft MOUS certification exam for Access.

Requirements for the Certificate *Required courses:*

CISD 11	Database Management — Microcomputers	4.0	CSU
CISD 14	Advanced Database Management – Microcomputers	4.0	
CISD 40	Database Design	2.0	
	Total Units	10.0	

CIS Professional Certificate in Java Programming

Computer Information Systems Department Certificate 60700

This curriculum is designed for returning CIS professionals with several years of experience or current students who have completed several CIS courses. This program will prepare the student to develop applications using Java and includes techniques in Object Oriented Programming, webbased applets, servlets, navigating databases, and JavaBeans.

Requirements for the Certificate Required courses:					
CISD 11	Database Management — Microcomputers, <u>or</u>	4.0	CSU		
CISD 31	Database Management	4.0			
CISP 21	Programming in Java	4.0	CSU, UC		
CISP 24	Advanced Java Programming	4.0			
	Total Units	12.0			

CIS Professional Certificate in LINUX Computer Information Systems Department Certificate 60706

This certificate is designed for returning CIS professionals with several years of experience or current students who have completed several CIS courses. This program will prepare the student to install, manage, and troubleshoot workstations, servers, and Local Area Networks using the Linux operating system. The certificate covers the major topics of an industry standard certification exam for Linux.

Requirements for the Certificate *Required courses:*

CISN 31 CISN 34	Linux Operating System LINUX Networking and Security	4.0	CSU CSU
CISW 31	Web Servers	4.0	
	Total Units	12.0	

CIS Professional Certificate in Networking

Computer Information Systems Department Certificate 60716

This curriculum is designed to help students develop skills to administer and manage the heterogeneous corporate network. The courses examine and illustrate communication protocols with various industrial leading network operating systems. The main objective of the certificate is to integrate and enhance knowledge for network administration. However, individual courses may assist students in preparing for related certification exams.

Requirements for the Certificate *Required courses:*

CISN 11	Telecommunications/ Networking Fundamentals	4.0	CSU
CISN 24	Microsoft NT Network System Administration	4.0	CSU
CISN 41	Novell Netware Systems Administration, <u>or</u>	4.0	CSU
CISN 34	LINUX Networking and Security	4.0	CSU

51	Cisco CCNA Networking Fundamentals and Routing	4.0	CSU
	Total Units	16.0	

CIS Professional Certificate in Network Security

CISN

Computer Information Systems Department Certificate 60721

This curriculum is designed for returning CIS professionals with several years of experience or current students who have completed several CIS courses. This program is aimed to help students develop skills to design, implement, and maintain secured networks. The courses examine Firewall and VPN in various environments and platforms, use network protocol analyzing technology as a security tool to protect the networks from attacks, and illustrate network vulnerabilities from a hacker's perspective. This program will prepare students to explain fundamental concepts of network security, identify network vulnerabilities and attacks, and use various protocol analyzers to detect network attack and troubleshoot network problems. Individual courses may assist students in preparing for related industry certification exams.

Requirements for the Certificate *Required courses:*

	Total Units	12.0	
CISS 25	Network Security and Firewalls	4.0	CSU
CISS 23	Network Analysis and NIDS	4.0	CSU
(133.2.1	Countermeasures	4.0	CSU
		Countermeasures CISS 23 Network Analysis and NIDS CISS 25 Network Security and Firewalls	Countermeasures CISS 23 Network Analysis and NIDS 4.0 CISS 25 Network Security and Firewalls 4.0

CIS Professional Certificate in Object-Oriented Design & Programming

Computer Information Systems Department Certificate 60723

This certificate will provide the basic knowledge for developing a model and creating a design for business application programs using object-oriented approach and UML.

Requirements for the Certificate *Required courses:*

CISP 11	Basic Programming, <u>or</u>	4.0	CSU, UC
CISP 31	Programming in C++, <u>or</u>	4.0	CSU, UC
CISP 21	Programming in Java, <u>or</u>	4.0	CSU, UC
CISP 41	Programming in C#	4.0	

	Total Units	10.0	
	Design	2.0	
CISP 51	Principles of Object-Oriented	2.0	
CISP 44	Advanced Programming in C#	4.0	
	Programming, <u>or</u>		
CISP 24	Advanced Java	4.0	
	Programming, <u>or</u>		
CISP 34	Advanced C++	4.0	CSU, U
	Programming, <u>or</u>		
CISP 14	Advanced Basic	4.0	CSU, U

CIS Professional Certificate in Oracle Computer Information Systems Department Certificate 60717

This curriculum is designed for returning CIS professionals with several years of experience or current students who have completed several CIS courses. This program will prepare the student to install, create, manage, administer, and troubleshoot an Oracle database. The program covers the major topics of an industry standard certification exam for Oracle.

Requirements for the Certificate Required courses:

	Total Units	12.0 - 14.0	
CISD 40	Database Design	2.0	
CISD 34	High Performance Ora SQL Tuning	acle 2.0	
CISD 50	Web Based Application PL/SQL, <u>or</u>		CSU
CISD 33	Oracle Database Arch and Administration, g	<u>or</u>	
CISD 32	Oracle Forms and Rep	orts 4.0	
CISD 31	Database Manageme	nt 4.0	

CIS Professional Certificate in SOA and Web Services

Computer Information Systems Department Certificate 60724

This certificate is designed for returning CIS professionals with several years of experience or current students who have completed several CIS courses. This program will help the student understand the concepts and theories underlying service oriented architecture (SOA), XML technologies (DTD, XSD, XLST, XQuery and XPath), and Web services technologies (UDDI, WSDL and SOAP).

	Requirements for the Certificate Required courses:	
,UC	CISW 41	XML Secure Programming
	CISW 49	Service Oriented Architecture
		Concepts & Practice

Total Units

CIS Professional Certificate in SQL

3.0

3.0

6.0

Computer Information Systems Department Certificate 60730

This certificate is designed for returning CIS professionals with several years of experience or current students who have completed several CIS courses. This program will prepare the student to view and update databases, create and maintain database objects, and develop programs to automate database functions.

Requirements for the Certificate *Required courses:*

	Total Units	10.0
CISD 40	Database Design	2.0
CISD 31	Database Management	4.0
CISD 21	SQL Server	4.0

CIS Professional Certificate in Telecommunications

Computer Information Systems Department Certificate 60718

This curriculum is designed for returning CIS professionals with several years of experience or current students who have completed several CIS courses. This program will prepare the student to develop a fundamental understanding of local area networks, wide area networks, and telecommunications.

Requirements for the Certificate *Required courses:*

- CISN 11 Telecommunications/ 4.0 CSU Networking Fundamentals
- CISN 14 Advanced Telecommunications 4.0 Total Units 8.0

tai Units

CIS Professional Certificate in Visual Basic Programming

Computer Information Systems Department Certificate 60719

This curriculum is designed for returning CIS professionals with several years of experience or current students who have completed several CIS courses. This program will prepare the student to develop applications using Visual Basic for Windows or Web based systems.

Requirements for the Certificate Required courses: CISP 11 Basic Programming 4.0 CSU, UC CISP 14 Advanced Basic Programming 4.0 CSU, UC

LISF 14 Auvo	aliceu basic riogialilli	iiig 4.0	C30,0C
Tota	al Units	8.0	

CIS Professional Certificate in Web Programming

Computer Information Systems Department Certificate 60713

This curriculum is designed for returning CIS professionals with several years of experience or current students who have completed several CIS courses. This program will prepare the student to develop programming skills needed to create effective Web pages and websites using various scripting or markup languages like JavaScript, VBScript, HTML, DHTML, and XML. Includes practical knowledge of how to install, manage, and troubleshoot Web servers and access information from a database server. Helps students in obtaining programming jobs with companies with a Web presence.

Requirements for the Certificate *Required courses:*

	Total Units	12.0	
CISW 31	Web Servers	4.0	
CISW 24	Advanced Web Programming	4.0	
CISW 11	The Internet	4.0 CSU	

CIS Professional Certificate in Windows Operating System Administration

Computer Information Systems Department Certificate 60720

This curriculum is designed for returning CIS professionals with several years of experience or current students who have completed several CIS courses. This program will prepare the student to develop skills to install, manage/administer, and troubleshoot Microsoft Windows workstations and server operating system. The courses in this certificate cover the major topics of industry standard certification exams.

Requirements for the Certificate *Required courses:*

	Total Units	8.0
	Administration	
CISN 24	Microsoft NT Network System	4.0 CSU
CISN 21	Windows Operating System	4.0 CSU

Coaching

Physical Education Department Certificate 60804

This certificate program is intended to prepare students for employment as high school (*walk-on*) coaches, but is appropriate for coaches at various levels.

Requirements for the Certificate *Required courses:*

	Total Units	11.0	
PE 81	Work Experience for Coaching	2.0	
PE 44	Theory of Coaching	3.0	CSU
PE 34	Fitness for Living	3.0	CSU, UC
PE 13	Sports Officiating	3.0	CSU, UC

Exit Requirement:

First Aid and CPR Certification

Computer and Networking Technology – Level I Electronics and Computer Technology Department Certificate 60725

The Computer and Networking Technology Certificates prepares students to enter the computer and networking fields as service technicians. The program provides foundations in basic electronics, computer servicing, operating systems, network/server servicing, and customer relations skills. The student will be prepared to perform installation, software configuration, and the maintenance, operation, troubleshooting and repair of computers and their associated networking software/ hardware. In addition the program prepared students to take the A+, Network+, Server+ and Security+ certification tests offered at testing centers throughout the country. These certifications are CompTIA sponsored and are worldwide- recognized as industry benchmarks for the computer and networking technician. Further, the student will develop the requisite skills upon which to build in order to seek additional certification.

Requirements for the Certificate Required courses:				
CNET 50	PC Servicing	4.0		
CNET 52	PC Operating Systems	4.0		
CNET 54	PC Troubleshooting	4.0		
CNET 60	A+ Certification Preparat	ion 3.0		
ELEC 11	Technical Applications in	3.0	CSU	
	Microcomputers, <u>or</u>			
CISB 15	Microcomputer Application	ons 4.0	CSU, UC	
ELEC 50A	Electronics Theory	2.0	CSU	
ELEC 50AL	Electronics Laboratory	1.0	CSU	
ELEC 50B	Electronics Theory	2.0	CSU	
ELEC 50BL	Electronics Laboratory	1.0	CSU	
ELEC 56	Digital Electronics	3.0	CSU	
ELEC 56L	Digital Electronics Labora	tory 1.0	CSU	
	Total Units	28.0 - 29.0		

Computer and Networking Technology – Level II Electronics and Computer Technology Department Certificate 60726

The Computer and Networking Technology Certificates prepare students to enter the computer and networking fields as service technicians. The program provides foundations in basic electronics, computer servicing, operating systems, network/server servicing, security systems and customer relations skills. The student will be prepared to perform installation, software configuration, and the maintenance, operation, troubleshooting and repair of computers and their associated networking software/hardware. In addition, the student will be prepared to take the A+, Network+, Server+, and Security+ certification tests offered at testing centers throughout the country. These certifications are worldwide-recognized industry benchmarks for the computer and networking technicians. Further, the student will have the requisite skills upon which to build in order to seek additional certifications.

Requirements for the Certificate *Required courses:*

Completion of the Computer and Networking Technology – Level I Certificate, as follows:

CNET 50	PC Servicing	4.0
CNET 52	PC Operating Systems	4.0
CNET 54	PC Troubleshooting	4.0
CNET 60	A+ Certification Preparation	3.0

ELEC 11	Technical Applications in	ı	3.0	CSU
	Microcomputers, or		5.0	
CISB 15	Microcomputer Applicat	tions	4.0	CSU, UC
ELEC 50A			2.0	CSU
ELEC 50AL			1.0	CSU
ELEC 50B	Electronics Theory		2.0	CSU
ELEC 50BL	Electronics Laboratory		1.0	CSU
ELEC 56	Digital Electronics		3.0	CSU
ELEC 56L	Digital Electronics Labor	ratory	1.0	CSU
Plus the fo	llowing courses:			
Level II as fo	ollows:			
CNET 56	Computer Networks		4.0	
CNET 62	Network+ Certification Preparation		3.0	
CNET 64	Server+ Certification Preparation		3.0	
CNET 66	Security+ Certification Preparation		3.0	
TECH 60	Customer Relations for t Technician	he	1.0	
	Total Units	42.0 - 4	13.0	
Recommen	ded Electives:			
ELEC 51	Electronic Devices Theor	.y		
ELEC 51L	Electronic Devices Labor	atory		
		,		

ELEC 51L	Electronic Devices Laboratory
ELEC 74	Microprocessor Systems
ELEC 74L	Microprocessor Systems Laborator
ELMA 65A	Mathematics of Electronics
ELMA 65B	Mathematics of Electronics
EST 54	Cabling and Wiring Standards

CNET 60 is recommended for those seeking the Level I Certificate. It is a test preparation course for the A+ certification test. CNET 62 is recommended for those seeking the Level II Certificate. It is a test preparation course for the Network+ certification test.

Computer Graphic Design/ Photography Photographics Department Certificate 61005

The Computer Graphics Certificate will enable the student to develop specific computer skills needed for employment subsequent to completion of the required courses. The Computer Graphics Certificate is an option under the existing Photography program. Those anticipating a Baccalaureate Degree should be guided in their selection of lower-division courses by an advisor of the catalog of the institution they expect to enter.

Requirements for the Certificate Required courses:					Rec Req
GR	AP 1	Computer Graphics Lab	1.0		ELEC
GR	AP 10	Photo Editing with Photoshop	3.0		
GR	AP 12	Advanced Photo Editing with Photoshop	3.0		ELEC
GR	AP 14	Digital Color Management	3.0		ELEC
GR	AP 16	Digital Image Design with	3.0		ELEC
		Illustrator & Freehand			ELEC
GR	AP 20	Applying Photos and Images	3.0		ELEC
		in Multimedia			ELEC
	AP 28	Digital Portfolio	2.0		ELEC
PH	OT 10	Beginning Photography	3.0	CSU, UC	ELEC
PH	OT 17	Photocommunication	3.0		ELEC
		Total Units	24.0		ELEC
Re	commen	ded Electives:			ELEC
AH	IS 1	Understanding the Visual Arts,	or		ELEC
AR	ARTB 1 Understanding the Visual Arts				
CO	MP 10	Operating the Macintosh Comp	outer		FIM
GR	AP 18	Advanced Image Design –			FIM
		3D Modeling Techniques			TECH
GR	GRAP 24 Work Experience in Computer Graphics				120
PH	OT 1	Laboratory Studies: Black and V Photography	White		
PH	OT 2	Laboratory Studies: Color Phote	ography	y	
PH	0T 4	Digital Cameras and Compositi			Со
		- '			A

Computer Systems Technology Electronics and Computer Technology Department Certificate 60924

This curriculum is one of three advanced systems options available for those students who do not complete all advanced systems courses at once, or who complete them one at a time. The Computer Systems Technology curriculum encompasses advanced coursework in computer systems circuitry. This includes microprocessor programming codes and microprocessor interfacing circuits. Two additional certificate programs are also available: a one-year certificate in Electronics Technology and a two-year certificate with the same title as the A.S. Degree. All students completing an Electronic A.S. Degree program are automatically eligible to receive, without further examination, the N.A.R.T.E. 3rd Class Technician License, and all students completing certificate programs are automatically eligible to receive, without further examination, the N.A.R.T.E. 4th Class Technician License.

	Requiren Required co	nents for the Certificate <i>purses:</i>		
	ELEC 11	Technical Applications in Microcomputers	3.0	CSU
	ELEC 12	Computer Simulation and Troubleshooting	2.0	
	ELEC 50A	Electronics Theory	2.0	CSU
	ELEC 50AL	Electronics Laboratory	1.0	CSU
	ELEC 50B	Electronics Theory	2.0	CSU
	ELEC 50BL	Electronics Laboratory	1.0	CSU
	ELEC 51	Electronic Devices Theory	3.0	CSU
	ELEC 51L	Electronic Devices Laboratory	1.0	CSU
UC	ELEC 56	Digital Electronics	3.0	CSU
	ELEC 56L	Digital Electronics Laboratory	1.0	CSU
	ELEC 61	Electronic Assembly and Fabrication	2.0	CSU
	ELEC 74	Microprocessor Systems	3.0	CSU
	ELEC 74L	Microprocessor Systems Laboratory	1.0	CSU
	ELMA 65A	Mathematics of Electronics	2.0	CSU
	ELMA 65B	Mathematics of Electronics	2.0	CSU
	TECH 60	Customer Relations for the Technician	1.0	
		Total Units	30.0	

Construction Inspection Architecture and Engineering Design Department Certificate 60920

This program is intended to prepare students for employment following completion of courses. Students desiring a Bachelor's Degree (*transfer program*) should consult with a counselor or advisor to discuss transferability of courses

Requirements for the Certificate Required courses:

	Total Units	22.0	
MATH 51	Elementary Algebra	4.0	
INSP 87	Fundamentals of Construction Inspection	3.0	
INSP 71	Construction Estimating	3.0	CSU
INSP 70	Elements of Construction	3.0	CSU
INSP 17	Legal Aspects of Construction	3.0	CSU
ARCH 14	Building and Zoning Codes	3.0	
ARCH 12	Architectural Materials and Specifications	3.0	CSU

Recommended Electives:

ARCH 11	Architectural Drawing
ARCH 15	Architectural Working Drawings – I
EDT 26	Civil Engineering Technology and CAD
INSP 67	Reading Construction Drawings

Consumer Services

Consumer Science and Design Technologies Certificate 61321

This program provides semi-professional training for those who seek immediate employment with the public sector or business establishments such as finance, retail, utilities and telecommunications. Students desiring a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

The possession of a certificate of proficiency is favorably recognized by government, business, and industry and is frequently a requirement for professional advancement. Additional courses beyond those required will enhance student's knowledge in a specialty area. Consult with a professor of Family and Consumer Sciences for further information. Certificate requirements state that at least half of the

required number of units be taken at Mt. San Antonio

College and that in each course taken toward a certificate, a grade of "C" or better must be earned. Students who are in

the last semester of a certificate program must complete an Application for Certificate form, available at the Admissions and Records Office, in order to be awarded the Certificate. **Requirements for the Certificate**

Required courses:	

3.0 CSU, UC BUSL 18 Business Law, or BUSI 18H Business Law – Honors 3.0 CSU, UC BUSM 60 Human Relations in Business 3.0 CSU FCS 41 Life Management 3.0 CSU Financial Planning, or FCS 80 3.0 CSU Financial Planning 3.0 CSU BUSA 71 FCS 91 Work Experience in Family 1.0 and Consumer Sciences, or BUSL 36 Paralegal Internship 1.0 PLUS Select two (2) courses from: BUSO 5 **Business English** 3.0 BUSO 25 **Business Communications** 3.0 CSU Office Computer Applications, or 4.0 CSU, UC COMP 12 Microcomputer Applications 4.0 CSU, UC CISB 15 **Total Units** 19.0 - 20.0

Correctional Sciences Public Services Department Certificate 62103

Correctional Sciences is the application of law, social, and natural sciences to the social phenomenon of crime and delinguency. The discipline addresses definitions, causation, prevention, discovery, procedures, treatment and rehabilitation, guantification, and research in both criminal and civil aspects. This program is intended to prepare students for employment following graduation. Students desiring a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

Requirements for the Certificate Required courses:

ADJU 68	Administration of Justice Report Writing	3.0			
CORS 10	Introduction to Correctional Sciences	3.0	CSU		
CORS 15	Control and Supervision of the Offender	3.0			
CORS 20	Correctional Law	3.0			
CORS 25	Probation and Parole	3.0			
CORS 30	Ethnic Relations in Corrections	3.0			
PLUS Select four (4) courses from:					

l		.,,					
	ADJU 1	The Administration of Justice System	3.0	CSU, UC			
	ADJU 2	Principles and Procedures of the Justice System	3.0	CSU			
	ADJU 20	Principles of Investigation	3.0	CSU			
	ADJU 38	Narcotics Investigation	3.0				
	ADJU 59	Gangs in the Community/ Corrections	3.0	CSU			
	CORS 35	Interviewing and Counseling in Corrections	3.0				
	CORS 40	Crime and Delinquency	3.0				
	CORS 45	The Violent Offender	3.0				
		Total Units	30.0				
	Recommended Electives:						
	PE-F 50	Physical Skills Preparation for Law Enforcement and Fire Scie	ence				
	PE-F 51	Agility Testing Preparation for					
		Law Enforcement and Fire Science	ence				
	PE-F 52	Law Enforcement and Fire Scie Fitness and Conditioning for L Fire Science and Forestry		rcement,			
	PE-F 52 SPAN 66	Fitness and Conditioning for L	aw Enfo	rcement,			

Culinary Arts – Level I

Consumer Science and Design Technologies Certificate 61334

The Culinary Arts – Level I Certificate program will prepare students for food production job opportunities in the food service industry. The program emphasizes basic food preparation, commercial food production, and food safety and sanitation. Six units of elective courses allow the student to tailor the program to meet specific needs.

Requirements for the Certificate Required courses:

Food Safety and Sanitation	1.5	CSU
Basic Cooking Techniques	3.0	CSU
Work Experience in Restaurant/ Hospitality	1.0	CSU
Principles of Foods with Lab	3.0	CSU
i) units from:		
Menu Planning	3.0	CSU
Catering	3.0	CSU
Creative Foods	3.0	
Meal Management	3.0	CSU
Total Units	14.5	
	Basic Cooking Techniques Work Experience in Restaurant/ Hospitality Principles of Foods with Lab () units from: Menu Planning Catering Creative Foods Meal Management	Basic Cooking Techniques3.0Work Experience in Restaurant/ Hospitality1.0Principles of Foods with Lab3.0Counits from:3.0Menu Planning3.0Catering3.0Creative Foods3.0Meal Management3.0

Data Entry

Office Technology Department Certificate 60701

This program is intended to prepare students for employment as data entry operators, customer service representatives, receptionists, or entry-level office support staff positions. Training in a variety of computer skills is emphasized. Students desiring a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

Requirements for the Certificate Required courses:

	Total Units	11.0	
COMP 18	Data Entry	3.0	
CISB 15	Microcomputer Applications	4.0	CSU, UC
	Applications, or		
COMP 12	Office Computer	4.0	CSU, UC
COMP 2	Intermediate Computer Keyboarding	4.0	
COMP 2	Intermediate Computer	10	

Database Management Systems Computer Information Systems Department Certificate 60703

This certificate program is intended to prepare students to work with database management systems on both microcomputers and mainframes.

Requirements for the Certificate Reauired courses:

	Total Units	37.0	
CISM 21	Client/Server Architecture	4.0	
	Computer Information Systems Seminar	4.0	
CISM 11 CISM 14	Systems Analysis and Design	3.5 4.0	CSU, UC
00000	PL/SQL		
CISD 50	Web Based Applications with	4.0	CSU
CISD 40	Database Design	2.0	
CISD 32	Oracle Forms and Reports	4.0	
CISD 31	Database Management	4.0	
	Management – Microcomputers		
CISD 14	Advanced Database	4.0	
	Database Management — Microcomputers	4.0	CSU
CISD 11	1 /		CSU
CISB 11	Computer Information Systems	35	CSU, UC

Desktop Publishing Office Technology Department Certificate 60711

This program will afford career opportunities in businesses desiring desktop publishing skills or in starting your own business.

Requirements for the Certificate Reauired courses:

	COMP 1A	Computer Keyboarding, <u>or</u>	2.0	CSU
	COMP 1	Computer Keyboarding	4.0	CSU
	COMP 11	Internet Research for Business	2.0	CSU
	COMP 60	Desktop Publishing with InDesign or Pagemaker, <u>or</u>	4.0	CSU
с	COMP 62	Desktop Publishing with QuarkXpress	4.0	
c	COMP 63	Adobe Illustrator for Desktop Publishers, <u>or</u>	4.0	
	GRAP 16	Digital Image Design with Illustrator & Freehand	3.0	
	COMP 64	Desktop Publishing Seminar	2.5	

COMP 65	Modifying Images for Desl Publishing, <u>or</u>	ktop 4.0	
GRAP 10	Photo Editing with Photos	hop 3.0	
	Total Units 1	6.5 - 20.5	

Educational Paraprofessional – Level I

Psychology and Education Department Certificate 62107

This certificate program in the field of Education prepares paraprofessionals in a variety of areas, emphasizing working with children to enhance their learning and development. Students will be able to assist classroom teachers in working with children of all ages and backgrounds. These classes assist students to prepare to pass the CBEST, as well.

Requirements for the Certificate *Required courses:*

CHLD 1	Child, Family and Community	3.0	CSU, UC
EDUC 10	Introduction to Education	3.0	CSU, UC
ENGL 68	English – Writing	3.0	
MATH 51	Elementary Algebra	4.0	
	Total Units	13.0	

Educational Paraprofessional – Level II

Psychology and Education Department Certificate 62108

This certificate program in the field of education prepares paraprofessionals in a variety of areas, emphasizing working with children to enhance their learning and development. Students will be able to assist classroom teachers in working with children of all ages and backgrounds, including students with special needs. This certificate provides graduates with skills in math and English, as well as understandings in learning and teaching styles. It may be used as eligibility for position advancement.

Requirements for the Certificate *Required courses:*

Completion of the Educational Paraprofessional – Level I Certificate (13 units) as follows:

CHLD 1	Child, Family and Community	3.0 CSU, UC	EST
EDUC 10	Introduction to Education	3.0 CSU, UC	
ENGL 68	English – Writing	3.0	ELE(
MATH 51	Elementary Algebra	4.0	

Plus the following courses:							
Level II as fo	Level II as follows:						
CHLD 68	Children With Special Needs	3.0	CSU				
EDUC 16	Aspects and Issues in Teaching Service Learning	3.0	CSU, UC				
ENGL 1A	5	2.0	CCU UC				
ENGL TA	Freshman Composition	3.0	CSU, UC				
MATH 71	Intermediate Algebra	5.0					
PSYC 14	Developmental Psychology, <u>or</u>	3.0	CSU, UC				
CHLD 10	HLD 10 Child Growth and Development 3.0 CSU, UC						
	Total Units	30.0					

Recommended Electives:

- CHLD 51 Early Literacy in Child Development
- CHLD 64 Health, Safety and Nutrition of Young Children
- LIT 40 Children's Literature
- PE 3 First Aid and CPR

Electronic Assembly and Fabrication

Electronics and Computer Technology Department Certificate 60929

The Electronic Assembly and Fabrication Certificate is intended to prepare students to enter the electronics field as assembly and fabrication technicians. The program provided a series of courses to meet the needs of industry in assembly, soldering/de-soldering skills and fabrication for thru-hole and surface mount devices (SMD). Included are skills for various types of cabling and connections.

Electronic fundamentals (*test instruments, basic electrical measurements, color-codes, schematic symbols, device outlines, etc.*) are provided in the introductory courses. Complete surface mount technology (SMT) skills are taught with a culmination in the IPC7711/IPC7721 rework and repair of electronic assemblies' certification. Recertification is required every two years. ELEC 63 is a prep course for the recertification.

Requirements for the Certificate *Required courses:*

ELEC 50A	Electronics Theory, and	2.0	CSU
ELEC 50AL	Electronics Laboratory, <u>and</u>	1.0	CSU
ELEC 50B	Electronics Theory, and	2.0	CSU
ELEC 50BL	Electronics Laboratory, <u>or</u>	1.0	CSU
EST 50	Electrical Fundamentals for Cable Installations	4.0	
ELEC 61	Electronic Assembly and Fabrication	2.0	CSU

ELEC 62	Advanced Surface Mount Assembly and Rework	2.0
	Total Units	8.0 - 10.0
Recommen	ded Electives:	
FLFC 63	Electronic Assemblies Rec	ertification

Electronic Systems Technology – Level I

Electronics and Computer Technology Department Certificate 60910

This is a fast-track certificate program within the fields of information and electronic technology. These fields are growing at rapid rates. The program provides job skills in the areas of low voltage cable and wire installations used in the telephone industry, computer networks (business and home), home theater, home automation, and home security systems (*integrated home systems*). Typical job titles in these areas are data or cable technician, lowvoltage wiring technician, home theatre installer, consumer electronics service technician and security system installer. The program prepares the student for the California State Contractors C-& Low Voltage Systems license. The program encompasses a total of 27-29 units comprising two levels of certification. The level I certification (15-16 units) develops skills in electrical fundamentals, fabrication techniques, cabling and wiring standards for voice, video and data, and basic computer skills in in word processing, spreadsheets, database and the Internet. Level II certification (12-13 units) adds customer relations and advanced skills in the installation. calibration, setup, maintenance, and troubleshooting of home theater systems, home automation, and home security systems. Either a course on preparing for the C-7 license or troubleshooting digital TV with LCD, plasma, and DLP video displays is included.

Requirements for the Certificate *Required courses:*

ELEC 11	Technical Applications in Microcomputers, <u>or</u>		3.0	CSU
CISB 15	Microcomputer Applicati	ons	4.0	CSU, UC
EST 50	Electrical Fundamentals Cable Installations	for	4.0	
EST 52	Fabrication Techniques for Cable Installations	or	4.0	
EST 54	Cabling and Wiring Stand	dards	4.0	
	Total Units	15.0 - 1	16.0	

Electronic Systems Technology – Level II

Electronics and Computer Technology Department Certificate 60928

The Level II certification (12-13 units) add customer relations skills and the installation, calibration, setup maintenance and troubleshooting of home theater, home automation, and home security systems. Either a course on preparing for the C-7 license or troubleshooting digital TV with LCD, plasma and DLP video displays is included.

Requirements for the Certificate Required courses:

ELEC 11	Technical Applications in Microcomputers, <u>or</u>	I	3.0	CSU
CISB 15	Microcomputer Applicat	ions	4.0	CSU, UC
EST 50	Electrical Fundamentals Cable Installations		4.0	
EST 52	Fabrication Techniques for Cable Installations	or	4.0	
EST 54	Cabling and Wiring Stan	dards	4.0	
Plus the fo	llowing courses:			
EST 56	Home Theater, Home Integration, & Home Sec Systems	urity	4.0	
EST 62	Electronic Troubleshooti	ng — I	4.0	
TECH 60	Customer Relations for t Technician	he	1.0	
PLUS				
Select one (1) course from:			
EST 64	Electronic Troubleshooti	ng – II	4.0	
EST 70	C-7 Low Voltage System: License Preparation	S	2.0	
	Total Units	26.0 - 2	29.0	
Recommen	ded Electives:			
ELEC 61	Electronic Assembly and	Fabricat	ion	
ELEC 62	Advanced Surface Moun	t Assemb	oly	

2 Advanced Surface Mount Assembly and Rework

Electronics and Computer-Engineering Technology Electronics and Computer Technology Department Certificate 60906

This curriculum starts with basic electronic components and circuitry, culminates with course work in electronic systems, and is characterized by advanced coursework in three major areas. These include microprocessors and interfacing, electronic communications and industrial electronic controls. Students completing the program will have training in all the major areas of electronics and will possess ample skills to make them versatile employees. Nearly all labs have new, state-of-the-art equipment to provide the student with quality hands-on learning experiences. This program is intended to prepare students for

employment in electronic industries or for transfer into

industrial technology programs at various institutions in

the CSU system. Many of the courses directly articulate

to courses offered at the CSUs. The certificate prepares

technician, field engineer, computer service technician,

students for the following positions: field service

electronic and computer engineering technology or

customer service technician, communications technician, maintenance technician, and electronics technician. All students completing a certificate program are automatically eligible to receive, without further examination, the N.A.R.T.E. 4th Class Technician License.

Requirements for the Certificate Required courses:

ELEC 11	Technical Applications in Microcomputers	3.0	CSU
ELEC 12	Computer Simulation and Troubleshooting	2.0	
ELEC 50A	Electronics Theory	2.0	CSU
ELEC 50AL	Electronics Laboratory	1.0	CSU
ELEC 50B	Electronics Theory	2.0	CSU
ELEC 50BL	Electronics Laboratory	1.0	CSU
ELEC 51	Electronic Devices Theory	3.0	CSU
ELEC 51L	Electronic Devices Laboratory	1.0	CSU
ELEC 53	Communications Circuits Theory	3.0	
ELEC 53L	Communications Circuits Laboratory	1.0	
ELEC 54A	Industrial Circuits Theory	3.0	CSU
ELEC 54AL	Industrial Circuits Laboratory	1.0	CSU
ELEC 54B	Industrial Electronic Systems	2.0	CSU
ELEC 54BL	Industrial Electronic Systems Laboratory	1.0	CSU

ELEC 55	Microwave Communications	3.0	
ELEC 55L	Microwave Communications Laboratory	1.0	
ELEC 56	Digital Electronics	3.0	CSU
ELEC 56L	Digital Electronics Laboratory	1.0	CSU
ELEC 61	Electronic Assembly and Fabrication	2.0	CSU
ELEC 74	Microprocessor Systems	3.0	CSU
ELEC 74L	Microprocessor Systems Laboratory	1.0	CSU
ELMA 65A	Mathematics of Electronics	2.0	CSU
ELMA 65B	Mathematics of Electronics	2.0	CSU
TECH 60	Customer Relations for the Technician	1.0	
	Total Units	45.0	
Recommen	ded Electives:		
CISP 11	Basic Programming		
EDT 11	Technical Engineering Drawing	gl	
ELEC 62	Advanced Surface Mount Asse and Rework	mbly	
ELEC 76	Radio Telephone Communicati	ions	
PHYS 2AG	General Physics		
	nics Communicatio		

Electronics Communications **Electronics and Computer** Technology Department Certificate 60904

This curriculum is one of three advanced systems options available for those students who do not complete all advanced systems courses at once, or who complete them one at a time. The Electronics Communications curriculum encompasses advanced coursework in electronics communications. This includes both land-based and wireless forms of communications. The circuitry includes both analog and digital forms of communications (AM/FM, SSB, PAM, PPM, PWM, PCM, etc.). Analog and digital multiplexing is also covered. The curriculum culminates with microwave communications coursework that includes radar, PCS, GPS, and satellite operations.

Two additional certificate programs are also available; a one-year certificate in Electronics Technology, and a two-year certificate having the same title as the A.S. Degree. All students completing an Electronic A.S. Degree program are automatically eligible to receive, without further examination, the N.A.R.T.E. 3rd Class Technician License, and all students completing certificate programs are automatically eligible to receive, without further examination, the N.A.R.T.E. 4th Class Technician License.

	Requirer	nents for the Certificate		
	Required co	ourses:		
	ELEC 11	Technical Applications in Microcomputers	3.0	CSU
	ELEC 12	Computer Simulation and Troubleshooting	2.0	
	ELEC 50A	Electronics Theory	2.0	CSU
	ELEC 50AL	Electronics Laboratory	1.0	CSU
	ELEC 50B	Electronics Theory	2.0	CSU
	ELEC 50BL	Electronics Laboratory	1.0	CSU
	ELEC 51	Electronic Devices Theory	3.0	CSU
	ELEC 51L	Electronic Devices Laboratory	1.0	CSU
	ELEC 53	Communications Circuits Theory	3.0	
	ELEC 53L	Communications Circuits Laboratory	1.0	
	ELEC 55	Microwave Communications	3.0	
	ELEC 55L	Microwave Communications Laboratory	1.0	
	ELEC 56	Digital Electronics	3.0	CSU
	ELEC 56L	Digital Electronics Laboratory	1.0	CSU
	ELEC 61	Electronic Assembly and Fabrication	2.0	CSU
	ELMA 65A	Mathematics of Electronics	2.0	CSU
-	ELMA 65B	Mathematics of Electronics	2.0	CSU
	TECH 60	Customer Relations for the Technician	1.0	
		Total Units	34.0	

Electronics Technology Electronics and Computer Technology Department Certificate 60905

This one-year program is designed for the person requiring background in the basic core courses of electronic technology without an area of specialization. The core courses provide the necessary skills for entrylevel employment as an electronic technician in customer relations.

Requirements for the Certificate Reauired courses:

ELEC 11	Technical Applications in Microcomputers	3.0	CSU
ELEC 50A	Electronics Theory	2.0	CSU
ELEC 50AL	Electronics Laboratory	1.0	CSU
ELEC 50B	Electronics Theory	2.0	CSU
ELEC 50BL	Electronics Laboratory	1.0	CSU
ELEC 51	Electronic Devices Theory	3.0	CSU
ELEC 51L	Electronic Devices Laboratory	1.0	CSU

	Total Units	24.0	
TECH 60	Customer Relations for the Technician	1.0	
ELMA 65B	Mathematics of Electronics	2.0	CSU
ELMA 65A	Mathematics of Electronics	2.0	CSU
ELEC 61	Electronic Assembly and Fabrication	2.0	CSU
ELEC 56L	Digital Electronics Laboratory	1.0	
ELEC 56	Digital Electronics	3.0	CSU

Electronics: Industrial Systems Electronics and Computer

Technology Department Certificate 60908

This curriculum is one of three advanced systems options available for those students who do not complete all advanced systems courses at once, or who complete them one at a time. This certificate encompasses advanced coursework in industrial electronics. This includes electronic devices for industrial controls and motor controls. The curriculum culminates in programmable logic controls using the Allen Bradley series of PLCs running Windows ladder logic software.

Two additional certificate programs are also available: a one-year certificate in Electronics Technology and a two-year certificate having the same title as the A.S. Degree. All students completing an Electronics A.S. Degree program are automatically eligible to receive, without further examination, the N.A.R.T.E. 3rd Class Technician License, and all students completing certificate programs are automatically eligible to receive, without further examination, the N.A.R.T.E. 4th Class Technician License.

Requirements for the Certificate Reauired courses:

ELEC 11	Technical Applications in Microcomputers	3.0	CSU
ELEC 12	Computer Simulation and Troubleshooting	2.0	
ELEC 50A	Electronics Theory	2.0	CSU
ELEC 50AL	Electronics Laboratory	1.0	CSU
ELEC 50B	Electronics Theory	2.0	CSU
ELEC 50BL	Electronics Laboratory	1.0	CSU
ELEC 51	Electronic Devices Theory	3.0	CSU
ELEC 51L	Electronic Devices Laboratory	1.0	CSU
ELEC 54A	Industrial Circuits Theory	3.0	CSU
ELEC 54AL	Industrial Circuits Laboratory	1.0	CSU
ELEC 54B	Industrial Electronic Systems	2.0	CSU
ELEC 54BL	Industrial Electronic Systems Laboratory	1.0	CSU

ELEC 56	Digital Electronics	3.0 CSU
ELEC 56L	Digital Electronics Laboratory	1.0 CSU
ELEC 61	Electronic Assembly and Fabrication	2.0 CSU
ELMA 65A	Mathematics of Electronics	2.0 CSU
ELMA 65B	Mathematics of Electronics	2.0 CSU
TECH 60	Customer Relations for the Technician	1.0
	Total Units	33.0

Emergency Medical Technician – Paramedic (EMT-P) Medical Services Department Certificate 61211

This Paramedic Program is accredited by CAAHEP (*Committee on Accreditation of Allied Health Education Programs*) and approved by the Los Angeles County Department of Health Services as meeting and exceeding the minimum standards as specified in Title 22 of the California Code of Regulations and the federal Department of Transportation national standard curriculum. It is designed to train paramedics to work on ambulances and in the fire service.

The Emergency Medical Technician-Paramedic (EMT-P is an individual who is educated and trained during an intensive (32-hours per week) didactic program lasting 16 weeks. This is followed by five (5) weeks of Clinical Internship in a hospital (40-hours per week), and then eight (8) weeks of Field Externship as a practicing Paramedic under the guidance and supervision of a Paramedic Field Preceptor.

Upon completion of the required courses in the Paramedic Program, the student is granted a Certificate of Completion as an Emergency Medical Technician-Paramedic (EMT-P) by the College. Students are then eligible for licensure by taking and passing both the National Registry Exam and County Paramedic accreditation exam.

Requirements for the Certificate *Required courses:*

EMS 1	Fundamentals for Paramedics	4.0
EMS 10	Anatomy and Physiology for Paramedics	2.0
EMS 20	Emergency Cardiac Care for Paramedics	1.0
EMS 30	Pharmacology for Paramedics	2.0
EMS 40	Cardiology for Paramedics	5.0
EMS 50	Paramedic Skills Competency	4.5
EMS 60	EMS Theory for Paramedics	8.5

EMS 70	Paramedic Clinical Internship	3.5			
EMS 80	Paramedic Field Externship	8.5			
	Total Units	39.0			
Recommended Electives:					
ADJU 1	The Administration of Justice S	ystem			
FIRF 1	Fire Protection Organization				

- FIRE 1 Fire Protection Organization
- PSYC 1A Introduction to Psychology
- SOC 1 Sociology

The Emergency Medical Services faculty recommend that you complement your studies with selected elective courses chosen from the list above. You should meet with a professor of Emergency Medical Services to help you determine which of those electives would best suit your career plans.

Special Information:

To remain in the program, students must maintain a grade of "C" (80 percent) or better in all courses and receive a grade of "C" (80 percent) or better on all final exams, per state regulations. Before starting in clinical rotations, students must pass a criminal background check.

Upon successful completion of the required courses, students are granted a Certificate of Completion for the Paramedic Program. Students are then eligible for licensure by taking and passing both the National Registry Exam and County Paramedic accreditation exam.

Application Requirements and Entrance Procedures

Application Requirements:

In addition to meeting Mt. San Antonio College academic standards for admission, applicants must be in good standing and satisfy the following requirements:

- 1. Be an EMT-I, currently certified in California.
- Submit a letter on official stationery from a recognized EMS agency verifying completion of six (6) months of pre-hospital field experience as an EMT-I (approximately 1,200 hours) within the last two years.
- File a college application and be accepted as a student
- at Mt. San Antonio College.
- Submit an application for the Paramedic Program to the Technology and Health Division Office (909) 594-5611, ext. 4750. All applications are dated upon receipt in the Technology and Health Division Office. The Paramedic Program begins three times per year, in August, January, and May and runs for 29 weeks.
- Take the AWE (Assessment of Written English), the Mt. SAC Math Placement test, and the Degrees of Reading Power reading test at least ten working days before the state of the pre-course (EMS 1). Placement examinations will be individually assessed to determine eligibility. The

placement test is administered by the Assessment Center, located in the Student Services Center. If required, arrange with the Center a day and a time to take the examination. The Assessment Center (909) 594-5611, ext. 4265, is open Monday through Friday.

- 6. Successful completion of EMS-1, Fundamentals for Paramedics.
- Forward two official transcripts of all coursework completed (*high school, EMT-I, Fire Science, and other than Mt. San Antonio College courses.*) One transcript must be sent to the Technology and Health Division Office, the other to the Admissions and Records Office.
- Note: If the course(s) were taken and/or the degree obtained at Mt. San Antonio College, it is not necessary to request transcripts.

Indicate in the mailing address the program for which transcripts are being sent to the Technology and Health Division Office.

Example:

Mt. San Antonio College Technology and Health Division Paramedic Program 1100 North Grand Avenue Walnut, CA 91789-1399

8. A physical examination, proof of certain immunizations, and a criminal background check are required of all candidates after acceptance to the program and before entrance into the clinical setting. Forms and information will be provided upon acceptance into the program. In addition, drug testing may be required as part of the physical examination and/or requested by the college or one of its agents.

Entrance Procedure:

In determining eligibility, consideration will be given to the following:

- 1. Completion of all admission requirements
- 2. EMS-related experience
- 3. Scores on the English assessment and math placement tests
- Placement EMS-1, Fundamentals for Paramedics, and scores on college placement exam for English and math

Emergency Medical Technician I Medical Services Department Certificate 61212

Approved by the Los Angeles County and State Departments of Health. Emphasizes the development of skills to recognize symptoms of illnesses and injuries as well as the proper procedures of pre-hospital emergency care. Awards an EMT-I Course Completion Certificate necessary for many jobs in emergency care and is prerequisite for entry into a Paramedic program or most fire department jobs.

Requirements for the Certificate *Required courses:*

EMT 90 Emergency Medical Technician I 9.0

Units		9.0
	Units	Units

Special Information:

To remain in the program, students must maintain a grade of "C" or better in the course.

Completion of the required course, which includes both written and practical qualifying examinations, will award the student an EMT-I Course Completion Certificate. Students are then eligible for certification by taking and passing the National Registry EMT-I certifying exam. This course is a prerequisite for the Paramedic Program and is required by most fire departments before the student may be hired as a firefighter.

Application Requirements and Entrance Procedures Application Requirements:

- a. Applicant must be 18 years of age upon entrance into the course.
- b. High school graduate or equivalent.
- c. File a College application and be accepted as a student at Mt. San Antonio College.
- d. A physical examination, proof of certain immunizations, current certification in CPR, and a criminal background check are required of all students prior to entrance into the clinical setting. Forms and information will be provided upon entry into the course.

Selection Procedure:

The course is open to all students who meet the application requirements.

Engineering Design Technology – Level I

Architecture and Engineering Design Department Certificate 60900

The Engineering Design Technology Level I Certificate is designed to prepare students for entry-level employment in the technical and computer-aided drafting design fields. Upon completion of the Level I Certificate, students will be prepared in fundamental working practices related to the technical design field.

Requirements for the Certificate

Required courses:						
EDT 11	Technical Engineering Drawing I	3.0	CSU			
EDT 12	Technical Engineering Drawing II	3.0	CSU			
EDT 14	Mechanical Design – Geometric Dimensioning and Tolerancing	3.0	CSU			
EDT 16	Basic CAD and Computer Applications	4.0	CSU			
EDT 18	Engineering CAD Applications	4.0	CSU			
PLUS Select one (1) course from:						

ELEC 50A	Electronics Theory, and	2.0	CSU
ELEC 50AL	Electronics Laboratory	1.0	CSU
MFG 11	Manufacturing Processes I	2.0	CSU

Total Units 19.0 - 20.0

Special Information:

Students interested in pursuing transfer and a Bachelor's Degree in Engineering or Engineering Technology are advised to verify with each transfer institution specific requirements for transfer and appropriate courses. Requirements vary depending on specialty and institution and may include areas such as math at the levels of calculus or trigonometry at a minimum.

See the Mt. SAC Catalog under either Engineering or Surveying for a list of transferable engineering courses.

Engineering Design Technology -Level II

Architecture and Engineering **Design Department** Certificate 60915

The Engineering Design Technology Level II Certificate is designed to provide focused technical grounding and exposes students to parametic design technology. This certificate enables students to pursue competitive employment in the technical design field, beyond entry level.

Requirements for the Certificate Required courses:

Level Las follows:

EDT 11	Technical Engineering Drawing I	3.0	CSU
EDT 12	Technical Engineering Drawing II	3.0	CSU
EDT 14	Mechanical Design – Geometric Dimensioning and Tolerancing	3.0	CSU
EDT 16	Basic CAD and Computer Applications	4.0	CSU
EDT 18	Engineering CAD Applications	4.0	CSU

MFG 11	Manufacturing Processe	s I, <u>or</u>	2.0	CSU
ELEC 50A	Electronics Theory, and		2.0	CSU
ELEC 50AL	Electronics Laboratory		1.0	CSU
Plus the fo	llowing courses:			
EDT 20	Technical Descriptive Ge	ometry	3.0	CSU
EDT 24	Engineering CAD 3-D So	lids	3.0	CSU
	and Surfaces			
ELEC 50B	Electronics Theory		2.0	CSU
ELEC 50BL	Electronics Laboratory		1.0	CSU
MFG 11	Manufacturing Processe	s I, <u>or</u>	2.0	CSU
ELEC 50A	Electronics Theory, and		2.0	CSU
ELEC 50AL	Electronics Laboratory		1.0	CSU
	Total Units	30.0 - 3	32.0	

Engineering Design Technology -Level III

Architecture and Engineering Design Department Certificate 60916

The Engineering Design Technology Level III Certificate focuses on the civil and structural design fields, emphasizing three-dimensional illustration and animation. This certificate allows students to pursue employment in the civil design fields.

Requirements for the Certificate Required courses:

Level I as follows:

- EDT 11 Technical Engineering Drawing I 3.0 CSU
- Technical Engineering Drawing II 3.0 CSU EDT 12 EDT 14 Mechanical Design – Geometric 3.0 CSU Dimensioning and Tolerancing
- EDT 16 **Basic CAD and Computer** 4.0 CSU Applications 4.0 CSU EDT 18 Engineering CAD Applications
- MFG 11 Manufacturing Processes I, or 2.0 CSU
- Electronics Theory, and 2.0 CSU ELEC 50A ELEC 50AL Electronics Laboratory 1.0 CSU

Required courses: Level II as follows:

EDT 20	Technical Descriptive Geometry	3.0	CSU
EDT 24	Engineering CAD 3-D Solids and Surfaces	3.0	CSU
ELEC 50A	Electronics Theory, and	2.0	CSU
ELEC 50AL	Electronics Laboratory	1.0	CSU

MFG 11 ELEC 50A ELEC 50AL	Manufacturing Processes I, <u>or</u> Electronics Theory, <u>and</u> Electronics Laboratory	2.0	CSU CSU CSU
Plus the fo	llowing courses:		
EDT 26	Civil Engineering Technology and CAD	3.0	CSU
EDT 28	Engineering CAD 3-D Illustration/Animation	3.0	CSU
	Total Units 39.0 -	41.0	
	Management Administration Departme e 60511	nt	
Business Certificat Requirer	Administration Departme e 60511 nents for the Certificate	nt	
Business Certificat	Administration Departme e 60511 nents for the Certificate	nt	
Business Certificat Requirer	Administration Departme e 60511 nents for the Certificate	nt 3.0	
Business Certificat Requires Required co	Administration Departme te 60511 ments for the Certificate purses:	3.0	CSU
Business Certificat Requirer Required of BUSA 11	Administration Departme te 60511 ments for the Certificate <i>ourses:</i> Fundamentals of Accounting	3.0	CSU
Business Certificat Required Required of BUSA 11 BUSR 50	Administration Departme te 60511 ments for the Certificate <i>burses:</i> Fundamentals of Accounting Real Estate Principles	3.0 3.0	CSU

Electronics Theory

ELEC 50BL Electronics Laboratory

2.0 CSU

1.0 CSU

ELEC 50B

BUSR 77 Escrow Procedures II 3.0 CISB 15 Microcomputer Applications 4.0 CSU, UC **Total Units** 19.0

Family Child Care

CHLD 92

Child Development Department Certificate 61316

The Family Child Care Certificate provides the information necessary for operating or owning a family child care business in the home.

3.0 CSU

3.0

Requirements for the Certificate Required courses: CHLD 1 Child, Family and Community 3.0 CSU, UC CHLD 5 Principles/Practices in

Child Development Programs Survey of Child Development CHLD 6 3.0 CSU Curriculum CHLD 10 Child Growth and 3.0 CSU, UC Development, or CHLD 10H Child Growth and 3.0 CSU, UC Development – Honors

Family Child Care

Plus the following courses:						
CHLD 64	Health, Safety and Nutrition of Young Children	3.0				
CHLD 68	Children with Special Needs	3.0	CSU			
CHLD 84	Guidance and Discipline in Child Development Settings	1.0				
PLUS						
Select one ((1) course from:					
CHLD 50	Multicultural Education: Anti-Bias Perspective	3.0				
CHLD 66	Early Childhood Development Observation, <u>and</u>	2.0	CSU			
CHLD 66L	Early Childhood Development Observation Laboratory	1.0	CSU			
CHLD 72	Teacher, Parent, and Child Relationships	3.0				
CHLD 73	Infant/Toddler Care and Development	3.0	CSU			
	Total Units	25.0				

Fashion Design – Computer-Aided **Consumer Science and Design Technologies** Certificate 61329

The Fashion Design - Computer-Aided certificate builds upon basic skills and provides students with intermediate technical and technological skills in fashion design and patternmaking. With a diversified skill base that includes CAD technology, students will be better prepared for above entry-level positions and/or advancement to new career opportunities.

Requirements for the Certificate Reauired courses:

FASH 20	Illustration for Fashion and Costume Design	3.0	
FASH 21	Patternmaking I	3.0	CSU
FASH 24	Fashion Patternmaking by Computer	3.0	
FASH 25	Fashion Computer-Assisted Drawing	3.0	
FASH 26	Fashion Computer Assisted Design	2.0	
	Total Units	14.0	

Fashion Design – Level I Consumer Science and Design Technologies			Requirements for the Certificate Fashion Merchandising – Level Las follows: Level Las follows: Consumer Science and Design Technol							
	te 61307		FASH 8		3.0	CUI	Certificate 61303			9.00
The Fashion Design: Level I Certificate is designed to introduce the student to the employment opportunities available in both fashion design and costume design. Upon completion of the Fashion Design: Level I Certificate, students may qualify for an entry-level design and pattern making positions in Southern California's diverse apparel industry and the entertainment industry that support the largest number of employees and contributes significantly to the economy of the region.			FASH 10 FASH 12 FASH 15 FASH 20 FASH 21 FASH 22 FASH 23	Introduction to Fashion Clothing Construction I Clothing Construction II Fashion Strategies Illustration for Fashion and Costume Design Patternmaking I Fashion Design By Draping Patternmaking II	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	CSU CSU	The Fashion Merchandising Level II Certificate is designated to build upon the Fashion Merchandising – Level I Certificate to provide students with proven business and management tools that will increase their practical understanding of merchandising and marketing Students will be exposed to projects and visual display simulations that will enhance their merchandising and management career potential. Requirements for the Certificate			e their Irketing. Isplay
Require Required o	ments for the Certificate courses:	2	FASH 30	Fashion Design and Product Development I	3.0			Completion of the Fashion Merchandising – Level I Certificate (15 units)		
FASH 8	Introduction to Fashion	3.0 CSU	Plus the fo	llowing courses:			Required c	ourses:		
FASH 10	Clothing Construction I	3.0 CSU	FASH 9	History of Costume and Fashion	3.0	CSU	Level I as fo	ollows:		
FASH 12	Clothing Construction II	3.0 CSU	FASH 17	Textiles	3.0	CSU, UC	FASH 8	Introduction to Fashion	3.0	CSU
FASH 15	Fashion Strategies	3.0 CSU	FASH 31	Fashion Design and Product	3.0		FASH 10	Clothing Construction I	3.0	CSU
FASH 20	Illustration for Fashion and Costume Design	3.0	FACILIZZ	Development II	3.0		FASH 15	Fashion Strategies		CSU
FASH 21	Patternmaking I	3.0 CSU	FASH 32	Fashion Design and Product Development III	5.0		FASH 17	Textiles		CSU, UC
FASH 22	Fashion Design By Draping	3.0	FASH 95	Field Studies in Fashion	1.0		FASH 30	Fashion Design and Product Development I	3.0	
FASH 23	Patternmaking II	3.0		Merchandising – California			Diuc tha fa	llowing courses:		
FASH 30	Fashion Design and Product	3.0		Total Units	40.0		Level II as f	•		
	Development l		Recommen	ded Electives:			FASH 9	History of Costume and Fashion	30	CSU
	Total Units	27.0	FASH 24	Fashion Patternmaking by Comp	outer		FASH 62	Retail Store Management and		CSU
FASH 20 ar	nd FASH 23 may be taken two time	es for credit.	FASH 25				Merchandising, <u>or</u>	510		
Fashio	n Design – Level II		FASH 90 FASH 91	Field Studies Field Studies – New York			BUSS 50	Retail Store Management and Merchandising	3.0	CSU
Consum	er Science and Design Tec	hnologies:	FASH 92	Field Studies – Fashion Capitals			FASH 63	Advertising and Promotion, or		CSU
Certifica	te 61309						BUSS 33	Advertising and Promotion		CSU
The Fashio	n Design: Level II Certificate build	ds upon the		n Merchandising – Le			FASH 66	Visual Merchandising Display	3.0	CSU
	tificate to provide students with will enhance their Fashion Desigr		Consumer Science and Design Technologies Certificate 61308				Total Units	27.0		
	vill have a strategic view of histo						Recommen	nded Electives:		
research, and textile attributes and characteristics. Students will be exposed to additional categories and classifications of apparel and will further research and design product for		eristics. Students d classifications	The Fashion Merchandising Level I Certificate prepares the holder for entry-level positions in a variety of retail merchandising, manufacturing, and promotion businesses.			FASH 25 FASH 26 FASH 81	Fashion Computer-Assisted Drav Fashion Computer Assisted Desig Work Experience in Fashion	,		
divergent target markets. Students will prepare professional			-	nents for the Certificate			FASH 82	Work Experience in Fashion		
portfolios strengthen career perspectives. Completion of the			Required co			CC 11	FASH 83	Work Experience in Fashion		
Fashion Design: Level II Certificate will lead to new opportunities and provide students with a solid foundation			FASH 8 Fash 10	Introduction to Fashion Clothing Construction I	3.0 3.0		FASH 90	Field Studies		
upon which to build a career.			FASH 15	Fashion Strategies	3.0		FASH 91	Field Studies – New York		
			FASH 17	Textiles		CSU, UC	FASH 92	Field Studies – Fashion Capitals		
			FASH 30	Fashion Design and Product Development I	3.0					
				Total Units	15.0					

Fire Administration Fire Technology Department Certificate 62130

The Fire Administration Certificate prepares public agency firefighters or private fire personnel for career advancement and provides personal development. This certificate prepares students for positions as chief officers such as batallion chief, deputy chief, or division chief. Content focuses on advanced iob skills in life safety. interpersonal skills, human resource management, investigation, command presence, and implementation of local/state fire regulations. This certificate meets the requirements of the California State Board of Fire Services Certified Fire Officer Program.

Requirements for the Certificate Required courses:

FIRE 20	Fire Instructor 1A	2.0
FIRE 21	Fire Instructor 1B	2.0
FIRE 30	Fire Management 1	2.0
FIRE 40	Fire Prevention 1A	2.0
FIRE 41	Fire Prevention 1B	2.0
FIRE 50	Fire Command 1A	2.0
FIRE 51	Fire Command 1B	2.0
FIRE 60	Fire Investigation 1A	2.0
	Total Units	16.0

Fire Management Fire Technology Department

Certificate 62131 The Fire Management Certificate prepares public agency firefighters or private fire personnel for career advancement and provides personal development. This certificate prepares students for career advancement as supervisors and managers. The student will develop leadership, management, and supervisory competencies including leadership philosophy, ethics, diversity, and the difference between managing and leading people. Content focuses on job skills in organizational management, human resources, risk management, diversity, interpersonal skills, personnel and equipment, fire ground tactics and strategy, and investigation techniques. This certificate meets the requirements of the California State Board of Fire Services Certified Fire Officer Program.

Requirements for the Certificate Required courses

nequirea courses:						
	FIRE 7	Fire Fighting Tactics and Strategy	3.0	CSU		
	FIRE 8	Fire Company Organization and Management	3.0	CSU		
	FIRE 10	Arson and Fire Investigation	3.0	CSU		
	FIRE 20	Fire Instructor 1A	2.0			
	FIRE 21	Fire Instructor 1B	2.0			
	FIRE 30	Fire Management 1	2.0			
	FIRE 50	Fire Command 1A	2.0			
		Total Units	17.0			

Fire Technology Fire Technology Department Certificate 62105

The Fire Science Certificate has been developed to offer pre-employment education for the undergraduate who desires to enter the field of fire science. It also provides the employed firefighter an opportunity for a professional education. Students intending to pursue a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

Requirements for the Certificate Required courses: EIDE 1 Eiro Protoction Organization

	Total Units	23.5 -	34.0	
PE-F 53	Physical Training for the Basic Fire Academy		2.5	CSU
FIRE 86	Basic Fire Academy		12.0	
FIRE 12	Wildland Fire Control		4.0	CSU
FIRE 11	Fire Apparatus and Equip	oment	3.0	CSU
FIRE 10	Arson and Fire Investiga	tion	3.0	CSU
FIRE 9	Fire Hydraulics		3.0	CSU
FIRE 8	Fire Company Organizati and Management	on	3.0	CSU
FIRE 7	Fire Fighting Tactics and Strategy		3.0	CSU
Select two (2) courses from:			
PLUS				
FIRE 6	Hazardous Materials/ICS		3.0	
FIRE 5	Fire Behavior and Combi	ustion	3.0	CSU
FIRE 4	Building Construction fo Fire Protection	r	3.0	CSU
FIRE 3	Fire Protection Equipme and Systems	nt	3.0	CSU
FIRE 2	Fire Prevention Technolo	57	3.0	CSU
FIRE 1	Fire Protection Organiza	tion	3.0	CSU

Recommended Electives: PE-F 50 Physical Skills Preparation for Administration of Justice and Fire Technology PE-F 51 Agility Testing Preparation for Administration of Justice and Fire Technology PE-F 52 Fitness and Conditioning for Administration of Justice, Fire Technology, and Forestry SPAN 66 Spanish for Fire and Police Personnel **Fitness Specialist/Personal Trainer Physical Education Department** Certificate 60808 The Fitness Specialist/Personal Trainer Certificate prepares students for careers as personal trainers, health/fitness professionals in corporate fitness facilities, wellness centers and public/private health clubs. The Fitness Specialist/Personal Trainer Certificate curriculum is designed to prepare students who wish to take exams offered by the American Council on Exercise (ACE), the American College of Sports Medicine (ACSM) and other nationally recognized organizations. Technical skills necessary for implementation of a safe, effective and motivational physical fitness program are presented. **Requirements for the Certificate Reauired courses:** NF 10 Nutrition for Personal Health 3.0 CSU and Wellness PE 15 Administration of Fitness 2.0 Programs PE 24 Kinesiology 2.0 PE 38 Physiology of Exercise for Fitness CHLD 96 3.0 PE 39 Techniques of Fitness Testing 2.0 CSU CHLD 97 PF 40 Techniques of Teaching 2.0 Cardiovascular Exercise PE 41 Techniques of Teaching 2.0 Weight Training PE 85 Fitness Specialist Internship 1.0 **Gallery Design/Operation and Total Units** 17.0 Art Profession Art Department **Recommended Electives:** Certificate 61020 DNCF 39A Alignment and Correctives I This certificate is designed to provide students with the

Floral Design Agricultural Sciences Department Certificate 60113

This certificate program is designed to give students basic skills in floral design for employment in retail shops or mass merchandising of products. All courses are applicable for degree requirements.

Requirements for the Certificate Required courses:				Requirements for the Certificate Required courses:			
AGAB 20	Microcomputer Applications in Agriculture	3.0	CSU, UC	ARTG 20	Intro Exhibition Design and Professional Practice	3.0	CSU
AGOR 1	Horticultural Science	3.0	CSU	ARTG 21A	Introduction to Exhibition	3.0	CSU
AGOR 15	Interior Landscaping	3.0			Production		
AGOR 25	Floral Design I	3.0	CSU	ARTG 21B	Intermediate Exhibition	3.0	CSU
AGOR 26	Floral Design II	3.0	CSU		Production		
AGOR 29	Ornamental Plants – Herbaceous	3.0	CSU, UC	ARTG 22A	Exhibition Design and Art Gallery Operation	1.0	
AGOR 32	Landscaping and Nursery	3.0	CSU	DUIC	Work Experience		
	Management			PLUS Selectore	(1)		
	Total Units	21.0			(1) course from:		
				COMP 60	Desktop Publishing with InDesign or Pagemaker	4.0	CSU
	velopment Department			COMP 62	Desktop Publishing with QuarkXpress	4.0	
Certificat	te 61317			PLUS			
This certifi	cate requires the completion of	twelve		Select one (1) course from:			
(12) units.	ments for the Certificate			AHIS 5	History of Western Art: Renaissance Through Modern	3.0	CSU
Required c		-		AHIS 6	History of Modern Art	3.0	CSU
CHLD 1	Child, Family and Community	3.0	CSU		Total Units	17.0	
CHLD 10	Child Growth and	3.0	CSU, UC				
	Development, <u>or</u>			Googr	aphic Information Sy	rctor	nc
CHLD 10H	CHLD 10H Child Growth and 3.0 CSU Development – Honors, or			-	Art History, Geography,	ster	115
SOC 15	Child Development	3.0	CSU, UC	Certificat			
CHLD 68Children with Special Needs3.0CSUCHLD 95Issues in Foster Parenting1.0			CSU	The certificate program in Geographic Information Systems provides students in various disciplines the			

1.0

1.0

12.0

Discipline and Adjustment in

Independent Living Through

necessary theoretical and practical knowledge and skills

to display an aesthetically and conceptually effective art

exhibition. Students will acquire the knowledge of

various/diverse artistic media and develop a career-

oriented artistic perspective.

Foster Care

Foster Care

Total Units

ormation Systems provides students in various disciplines the opportunity to develop expertise in the creation, manipulation, analysis, and display of geographic information. This exciting technology has applications in many fields including environmental assessment, analysis of natural hazards, site analysis for business and industry, criminal justice, real estate, location analysis, resource management, land use planning, and global changes and systems modeling.

3.0 CSU

3.0 CSU, UC

3.0 CSU, UC

This program was developed with two intended groups in mind: 1) Currently enrolled students who wish to focus their training and skills for a career in GIS; 2) Currently employed persons who need or wish to enhance their knowledge of GIS for better understanding or to support their current job activities.

The program starts with a set of basic courses in geographic information technology and map reading.

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•	ments for the Certific	ate				
Required o						
GEOG 3	Map Reading and Interpre					
GEOG 10	Introduction to Geographi Information Systems	с	3.0	CSU, UC		
GEOG 11	Intermediate GIS		3.0			
	Total Units		9.0			
Horse Ranch Management Agricultural Sciences Department Certificate 60102						
This certifi	cate program is designed to					
	orse ranches and agriculture are applicable for degree r					
Require Required c	ments for the Certific	ate				
AGAB 20	Microcomputer Applicatio in Agriculture	ns	3.0	CSU, UC		
AGAG 59	Work Experience in Agriculture, <u>or</u>		1.0			
AGAG 60	Work Experience in Agriculture, <u>or</u>		2.0			
AGAG 61	Work Experience in Agriculture, <u>or</u>		3.0			
AGAG 62	Work Experience in Agriculture		4.0			
AGAN 2	Animal Nutrition		3.0	CSU		
AGAN 94	Animal Breeding		3.0			
AGLI 16	Horse Production, <u>or</u>		4.0	CSU, UC		
AGLI 18	Horse Ranch Managemen	t	4.0	CSU		
AGLI 19	Horse Hoof Care		2.0	CSU		
AGLI 96	Animal Sanitation and Disease Control		3.0	CSU		
AGLI 97	Artificial Insemination of Livestock		2.0			
	Total Units 2	21.0 - 2	24.0			

Hospitality: Catering

Consumer Science and Design Technologies Certificate 61315

The Hospitality: Catering Certificate will prepare students for catering and banquet job opportunities in the hospitality industry. The program emphasizes menu planning, food preparation, service and catering management.

Require Required	ments for the Certificate	2			
HRM 51	Introduction to Hospitality	3.0	CSU		
HRM 52	Food Safety and Sanitation	1.5	CSU		
HRM 53	Dining Room Service Management	3.0	CSU		
HRM 54	Basic Cooking Techniques	3.0	CSU		
HRM 61	Menu Planning	3.0	CSU		
HRM 62	Catering	3.0	CSU		
HRM 91	Work Experience in Restaurant/Hospitality	1.0	CSU		
NF 20	Principles of Foods with Lab	3.0	CSU		
	Total Units	20.5			
Hospitality: Food Services					

Consumer Science and Design Technologies Certificate 61320

This certificate prepares the holder to enter the food service field as a skilled food service worker in either food preparation or service.					
Requirements for the Certificate Required courses:					
HRM 51	Introduction to Hospitality	3.0	CSU		
HRM 52	Food Safety and Sanitation	1.5	CSU		
HRM 53	Dining Room Service Management	3.0	CSU		
	Total Units	7.5			

Hospitality: Hospitality Management – Level I

Consumer Science and Design Technologies Certificate 61332

The Hospitality: Hospitality Management - Level I Certificate prepares the holder for an entry-level position within the hospitality industry.

Requirements for the Certificate Reauired courses:

	Total Units	10.0	
	Restaurant/Hospitality		
HRM 91	Work Experience in	1.0	CSU
HRM 70	Introduction to Lodging	3.0	CSU
	Management		
HRM 53	Dining Room Service	3.0	CSU
HRM 51	Introduction to Hospitality	3.0	CSU

Hospitality: Hospitality Management – Level II Consumer Science and Design Technologies Certificate 61325							
This certificate prepares the holder to enter the hospitality field as a manager-trainee in a hotel or restaurant.							
Requirer Required co	nents for the Certificat	e					
HRM 51	Introduction to Hospitality	3.0 CSU					
HRM 53	Dining Room Service Management	3.0 CSU					
HRM 56	Management of Hospitality Personnel and Operations	3.0 CSU					
HRM 64	Hospitality Financial Accounting I	3.0 CSU					
HRM 66	Hospitality Law	3.0 CSU					
HRM 70	Introduction to Lodging	3.0 CSU					
HRM 91	Work Experience in Restaurant/Hospitality	1.0 CSU					
	Total Units	19.0					
Hospitality: Restaurant Management – Level I Consumer Science and Design Technologies Certificate 61333							
The Hospitality: Restaurant Management – Level I Certificate prepares the holder for an entry-level position within a restaurant.							
Requirements for the Certificate Required courses:							
HRM 51	Introduction to Hospitality	3.0 CSU					
HRM 52	Food Safety and Sanitation	1.5 CSU					
HRM 53	Dining Room Service Management	3.0 CSU					
HRM 91	Work Experience in Restaurant/Hospitality	1.0 CSU					

Total Units

Hospitality: Restaurant Management – Level II Consumer Science and Design Technologies Certificate 61319

8.5

The Hospitality: Restaurant Management – Level II Certificate prepares the holder to enter the restaurant field as a manager-trainee in a in a food service establishment.

Requirements for the Certificate Required courses:						
HRM 51	Introduction to Hospitality	3.0	CSU			
HRM 52	Food Safety and Sanitation	1.5	CSU			
HRM 53	Dining Room Service Management	3.0	CSU			
HRM 54	Basic Cooking Techniques	3.0	CSU			
HRM 57	Restaurant Cost Control	3.0	CSU			
HRM 61	Menu Planning	3.0	CSU			
NF 28	Cultural and Ethnic Foods	3.0	CSU, UC			
	Total Units	19.5				

Infant/Toddler Development **Child Development Department** Certificate 61318

The Infant/Toddler Certificate (30 units) provides the holder with specialized skills for working with children of that age. This certificate meets or exceeds Title 22 requirements and Title 5 Master Teacher – Infant/Toddler Specialization (with 16 units of general education).

Requirements for the Certificate Required courses:

CHLD 1	Child, Family and Community	3.0	
CHLD 5	Principles/Practices in Child Development Programs	3.0	CSU
CHLD 6	Survey of Child Development Curriculum	3.0	CSU
CHLD 10	Child Growth and Development, <u>or</u>	3.0	CSU, UC
CHLD 10H	Child Growth and Development – Honors	3.0	CSU, UC
CHLD 73	Infant/Toddler Care and Development	3.0	CSU
CHLD 85	Infants at Risk	3.0	
PLUS			
Select four ((4) courses from:		
CHLD 50	Multicultural Education: Anti-Bias Perspective	3.0	
CHLD 61	Language Arts & Art Media for Young Children	3.0	
CHLD 62	Music and Motor Development for Young Children	3.0	CSU
CHLD 64	Health, Safety and Nutrition of Young Children	3.0	
CHLD 72	Teacher, Parent, and Child Relationships	3.0	
	Total Units	30.0	

Information and **Operating Systems Security Computer Information Systems Department** Certificate 60731

This certificate will provide the fundamental knowledge needed to analyze the risk to one's network and systems and the steps necessary in order to select and deploy the appropriate countermeasures to reduce the computer's exposure to network threats.

Requirements for the Certificate Required courses:

CISS 11 CISS 13	Practical Computer Security Principles of Information	2.0 4.0
CISS 15	Systems Security Operating Systems Security	4.0
	Total Units	10.0

Interior Design Level I -Merchandising

Consumer Science and Design Technologies Certificate 61322

This program is intended to prepare students for employment as assistants and sales personnel for interior design products. The Interior Design program works within a Regional Interior Design Consortium of nearby community colleges. Many of the required courses may also be offered at the following community colleges: Fullerton, Long Beach City, Orange Coast, and Saddleback. and will meet the requirements of the Mt. SAC program. Regional course numbers have an ID (Interior Design) prefix. Some Mt. San Antonio College courses are offered by other departments and are identified by Mt. San Antonio College prefixes and numbers. These courses have the regional identification course number (RID) in parenthesis following their course title.

Requirements	for	the	Certificate
Required courses:			

ARCH 11	Architectural Drawing	3.0	CSU, UC
ARCH 16	Basic CAD and Computer	4.0	CSU, UC
	Application		
BUSS 35	Professional Selling	3.0	CSU
ID 100	Fundamentals of Interior Design	3.0	CSU
ID 105	Interior Design Studio I	2.0	CSU
ID 120	Interior Design Careers	2.0	CSU
ID 130	Applied Color and Design Theory	4.0	CSU
ID 150	Interior Materials and Products	4.0	CSU
	Total Units	25.0	

Interior Design Level II – Desian **Consumer Science and Design Technologies** Certificate 61330

This program is available as a certificate for students who have previous A.A., A.S. or Bachelor's Degree in another discipline. This program is designed to meet the professional requirements for entrance into an interior design career as an assistant interior designer. The Interior Design program works within a Regional Interior Design Consortium of nearby community colleges. Many of the required courses may also be offered at the following community colleges: Fullerton, Long Beach City, Orange Coast, and Saddleback, and will meet the requirements of the Mt. SAC program. Regional course numbers have an ID (Interior Design) prefix. Some Mt. San Antonio College courses are offered by other departments and are identified by Mt. San Antonio College prefixes and numbers. These courses have the regional identification course number (RID) in parenthesis following their course title.

Requirements for the Certificate Reauired courses:

Completion of the Interior Design Level I – Merchandising Certificate (25 units) as follows:

ARCH 11	Architectural Drawing	3.0	CSU, UC
ARCH 16	Basic CAD and Computer Application	4.0	CSU, UC
BUSS 35	Professional Selling	3.0	CSU
ID 100	Fundamentals of Interior Design	3.0	CSU
ID 105	Interior Design Studio I	2.0	CSU
ID 120	Interior Design Careers	2.0	CSU
ID 130	Applied Color and Design Theory	4.0	CSU
ID 150	Interior Materials and Products	4.0	CSU
Required c	ourses:		
Level II as f	ollows:		
ARCH 13	Architectural Illustration	3.0	CSU, UC
ARCH 15	Architectural Working Drawings – I	3.0	CSU
ID 170	Space Planning	3.0	CSU
ID 180	History of Interior Architecture & Furnishings I	3.0	CSU
ID 190	History of Interior Architecture & Furnishings II	3.0	CSU
ID 210	Fundamentals of Lighting	3.0	
ID 215	Interior Design Studio II	2.0	CSU
ID 230	Business and Professional Practice	3.0	

ID 240A	Interior Design Internship Seminar, <u>and</u>	1.0	
ID 240B	Interior Design Internship	1.0	
	Total Units	50.0	

Interior Design Level III -**Professional Designation Consumer Science and Design Technologies**

Certificate 61301

This program has been aligned with California State University Dominguez Hills (CSUDH) to offer students either a Bachelor of Arts (BA) in Interdisciplinary Studies through PACE (Program for Adult College Education) or a Bachelor of Science (BS) in Applied Studies. Students must complete the Mt. San Antonio College (or Regional) Interior Design A.S. Degree major requirements and Mt. SAC general education requirements to transfer into either of the CSUDH programs. While completing the Bachelor's Degree program at CSUDH, students must complete 16 units of credit in Interior Design at Mt. SAC or another college within the Regional Interior Design Program. Upon completion of the Bachelor Degree, the student may request a Professional Designation in Interior Design from the Interior Design program at Mt. SAC. Students already holding a Bachelor Degree may also apply for the Professional Designation in Interior Design after completing the requirements listed below.

Requirements for the Certificate Required courses:

Completion of the Interior Design Level I – Merchandising Certificate (25 units) as follows:

ARCH 11	Architectural Drawing	3.0	CSU, UC		
ARCH 16	Basic CAD and Computer Application	4.0	CSU, UC		
BUSS 35	Professional Selling	3.0	CSU		
ID 100	Fundamentals of Interior Design	3.0	CSU		
ID 105	Interior Design Studio I	2.0	CSU		
ID 120	Interior Design Careers	2.0	CSU		
ID 130	Applied Color and Design Theory	4.0	CSU		
ID 150	Interior Materials and Products	4.0	CSU		
Required co Level II as fo	Required courses:				
ARCH 13	Architectural Illustration	3.0	CSU, UC		
ARCH 15	Architectural Working Drawings — I	3.0	CSU		
ID 170	Cura es Diana la a	2.0	CC11		
	Space Planning	3.0	CSU		

ID 190	History of Interior Architecture & Furnishings II	3.0	CSU
ID 210	Fundamentals of Lighting	3.0	
ID 215	Interior Design Studio II	2.0	CSU
ID 230	Business and Professional Practice	3.0	
ID 240A	Interior Design Internship Seminar, <u>and</u>	1.0	
ID 240B	Interior Design Internship	1.0	
Required co	ourses:		
Level III as f	ollows:		
ARCH 18	Architectural Computer Aided Design Elements	3.0	
BUSA 7	Principles of Accounting – Financial	5.0	CSU, UC
ID 250	Codes and Specifications for Interior Design	2.0	CSU
ID 260	Rendering and Rapid Visualization	2.0	CSU
ID 265	Interior Design Studio III — Kitchens	2.0	
ID 275	Interior Design Studio IV — Bath Design	2.0	CSU
	Total Units	66.0	

Interior Landscaping Agricultural Sciences Department Certificate 60106

This certificate program is designed to give students basic skills in the design, installation, and maintenance of interior plants that are used in residences, offices, hotels, malls, restaurants, and other locations. All courses are applicable for degree requirements.

Requirements for the Certificate Required courses:

		Total Units	24.0	
CSU		Drip and Low Volume		
CSU	AGOR 64	Landscape Irrigation –	3.0	
CSU	AGOR 62	Landscape Irrigation — Design and Installation	3.0	CSU
CSU, UC	AGOR 32	Landscaping and Nursery Management	3.0	CSU
		Herbaceous		
CSU	AGOR 29	Ornamental Plants –	3.0	
	AGOR 24	Integrated Pest Management	3.0	CSU
CSU	AGOR 15	Interior Landscaping	3.0	
CSU	AGOR 13	Landscape Design	3.0	CSU
CSU	AGOR 1	Horticultural Science	3.0	CSU
00				

	uction to Computer			ID 190
Inform	ID 210			
	er Information Systems De te 60712	partn	nent	ID 215
				ID 230
	am is designed as a foundational nputer and informational technol		uction	ID 240A
environme	ent. This program will introduce th	he stud	lent	
to comput	er concepts, microcomputer appli	cation	s,	ID 240B
web/comp	outer programming, and the Inter	net.		ID 240C
Require	ments for the Certificate			
Required of	courses:			ID 250
CISB 11	Computer Information Systems	3.5	CSU, UC	
CISW 11	The Internet	4.0	CSU	ID 265
COMP 12	Office Computer Applications,	4.0	CSU, UC	
	<u>or</u>			ID 275
CISB 15	Microcomputer Applications	4.0	CSU, UC	
	Total Units	11.5		INSP 70
				INSP 71

Kitchen and Bath Design

Consumer Science and Design Technologies Certificate 61302

This Mt. SAC Kitchen and Bath Design Certificate program provides for immediate opportunity to seek employment in the area of Kitchen and Bath Design. This certificate program is endorsed by the National Kitchen and Bath Association. Students completing all courses for this certificate will earn four (4) NKBA credits toward eligibility for professional certification as a Certified Kitchen Designer or Certified Bath Designer. Please see a professor of Interior Design or contact the NKBA for professional certification eligibility requirements beyond this program.

Requirements for the Certificate Required courses:

ARCH 11	Architectural Drawing	3.0	CSU, UC	00
ARCH 15	Architectural Working Drawings – I	3.0	CSU	Re Rea
ARCH 16	Basic CAD and Computer Application	4.0	CSU, UC	AG AG
ID 100	Fundamentals of Interior Design	3.0	CSU	AG
ID 105	Interior Design Studio I	2.0	CSU	
ID 130	Applied Color and Design Theory	4.0	CSU	AG
ID 150	Interior Materials and Products	4.0	CSU	
ID 170	Space Planning	3.0	CSU	AG
ID 180	History of Interior Architecture & Furnishings I	3.0	CSU	AG(AG(

ID 190	History of Interior Architecture & Furnishings II	3.0	CSU		
ID 210	Fundamentals of Lighting	3.0			
ID 215	Interior Design Studio II	2.0	CSU		
ID 230	Business and Professional Practice	3.0			
ID 240A	Interior Design Internship Seminar, <u>and</u>	1.0			
ID 240B	Interior Design Internship	1.0			
ID 240C	Interior Design/Kitchen & Bath Internship	2.0			
ID 250	Codes and Specifications for Interior Design	2.0	CSU		
ID 265	Interior Design Studio III — Kitchens	2.0			
ID 275	Interior Design Studio IV — Bath Design	2.0	CSU		
INSP 70	Elements of Construction	3.0	CSU		
INSP 71	Construction Estimating	3.0	CSU		
	Total Units	56.0			
Recommended Electives:					
ARCH 13	Architectural Illustration				
ARCH 23	Architectural Presentations				
BUSA 72	Bookkeeping – Accounting				
BUSM 60	Human Relations in Business				

BUSS 50	Retail Store Management and Merchandising

Small Business Management

Professional Selling

Landscape and Park Maintenance **Agricultural Sciences Department** Certificate 60108

This certificate program is designed to give students basic skills in the maintenance of landscape of parks. All courses are applicable for degree requirements.

AGOR 53

Small Engine Repair I

3.0 CSU

Requirements for the Certificate Required courses:

BUSM 66

BUSS 35

AGOR 1	Horticultural Science	3.0	CSU
AGOR 24	Integrated Pest Management	3.0	CSU
AGOR 29	Ornamental Plants — Herbaceous	3.0	CSU, UC
AGOR 30	Ornamental Plants – Trees and Woody Shrubs	3.0	CSU, UC
AGOR 39	Turf Grass Production and Management	3.0	CSU
AGOR 40	Sports Turf Management	3.0	
AGOR 51	Tractor and Landscape Equipment Operations	3.0	CSU

AGOR 62	Landscape Irrigation — Design and Installation	3.0	CSU	AGOR 54 AGOR 55	Sma Dies
AGOR 63	Landscape Irrigation Systems	3.0		AGOR 55 AGOR 56	Eng
Adon os	Management	5.0		AGOR 50 AGOR 57	Pow
AGOR 71	Landscape Construction	3.0	CSU	AGOR 71	Lan
	Fundamentals				Fun
	Total Units	30.0		AGOR 72	Lan
					Арр
Landso	AGOR 91	Wor			
Agricultu	4000.00	0pe			
Certifica	te 60109			AGOR 92	Woı Ope
	cate program is designed to give			AGOR 93	Wor
	ed in employment for a landsca			Addit 75	Ope
	are applicable for degree requi	ements	5.	AGOR 94	Wor
•	ments for the Certificate				0pe
Required o					Tot
AGOR 1	Horticultural Science		CSU		
AGOR 13	Landscape Design		CSU	Lands	cape
AGOR 29	Ornamental Plants — Herbaceous	3.0	CSU, UC	Agricult	
AGOR 30	Ornamental Plants –	30	CSU, UC	Certifica	te 60
Adombo	Trees and Woody Shrubs	5.0	00,00	This certifi	cate p
AGOR 50	Soil Science and Management	3.0	CSU, UC	basic skills	
AGOR 51	Tractor and Landscape	3.0	CSU	managem	
	Equipment Operations			employme and cities.	
AGOR 62	Landscape Irrigation — Design and Installation	3.0	CSU	requireme	
AGOR 71	Landscape Construction	3.0	CSU	Require	
	Fundamentals			Required of	
AGOR 72	Landscape Hardscape	3.0	CSU	AGOR 1	Hor
	Applications			AGOR 13	Lan
	Total Units	27.0		AGOR 39	Turf Mar
			·	AGOR 50	Soil
	cape Equipment Tecl	nol	ogy	AGOR 51	Trac
Agriculti	ural Sciences Department				Equ
	cate program is designed to give	. ctudo	ntc	AGOR 62	Lan
	to seek employment in equipm				Des
	ntal yards, and small equipment			AGOR 63	Lan
,	are applicable for degree requir				Mar
Require	ments for the Certificate			AGOR 64	Lan Drip
Required o				AGOR 71	Lan
AGOR 1	Horticultural Science	3.0	CSU		Fun
AGOR 51	Tractor and Landscape	3.0	CSU		Tot
	Equipment Operations				
AGOR 52	Hydraulics	3.0	CSU		

ms of	Study Leading to) a	Certi	ticat					
GOR 54	Small Engine Repair II		3.0	CSU					
GOR 55	Diesel Engine Repair		3.0	CSU					
GOR 56	Engine Diagnostics		3.0	CSU					
GOR 57	Power Train Repair		3.0						
50R 71	Landscape Construction Fundamentals		3.0	CSU					
50R 72	Landscape Hardscape Applications		3.0	CSU					
50R 91	Work Experience in Nurse Operations, <u>or</u>	ry	1.0						
50R 92	Work Experience in Nurse Operations, <u>or</u>	ry	2.0						
GOR 93	Work Experience in Nurse Operations, <u>or</u>	ry	3.0						
50R 94	Work Experience in Nurse Operations	ry	4.0						
	Total Units	31.0	- 34.0						
andscape Irrigation									

Sciences Department 50110

program is designed to give students rigation design, repair, installation, water and troubleshooting. A student could seek ith a landscape contractor, schools, parks, ourses are applicable for degree

nts for the Certificate es:

	Total Units	27.0	
AGOR 71	Landscape Construction Fundamentals	3.0	CSU
AGOR 64	Landscape Irrigation — Drip and Low Volume	3.0	
AGOR 63	Landscape Irrigation Systems Management	3.0	
AGOR 62	Landscape Irrigation — Design and Installation	3.0	CSU
AGOR 51	Tractor and Landscape Equipment Operations	3.0	CSU
AGOR 50	Soil Science and Management	3.0	CSU, U
AGOR 39	Turf Grass Production and Management	3.0	CSU
AGOR 13	Landscape Design	3.0	CSU
AGOR 1	Horticultural Science	3.0	CSU

Law Er	nforcement		Legal C	Office Specialist		Require Required c	ments for the Certificate		-	ite Courses In Anatomy, including a laborator	rv component
Public Se	ervices Department		Office Te	chnology Department		AGAB 20	Microcomputer Applications			imum of four semester units.	ry component,
Certifica	te 62102		Certificat	te 60519			in Agriculture	3.0 CSU, UC		n Physiology, including a laborat	tory component,
	am is intended to prepare studen			m is intended to prepare student		AGAG 1	Food Production, Land Use and	3.0 CSU, UC		imum of four semester units.	, , ,
	ent following graduation. Student			nt as entry-level legal office assis			Politics – A Global Perspective			biology, including a laboratory o	component,
	Degree (transfer program) should			administrative assistants, legal o		AGAG 91	Agricultural Calculations	3.0		imum of four semester units.	·
a counselo	or or advisor to discuss transferab	ility of courses.		or other office support staff when		AGAN 1	Animal Science	3.0 CSU, UC	Non-cours	se requirements	
Require	ments for the Certificate			is required. Training in a variety		AGAN 2	Animal Nutrition	3.0 CSU		erall grade point average of 2.5 f	for the Human
Required o	courses:			l skills, and law office procedures		AGAN 94	Animal Breeding	3.0	Anato	my, Human Physiology, and Micr	robioloav
ADJU 1	The Administration of	3.0 CSU, UC		d. Students desiring a Bachelor's I <i>ogram</i>) should consult with a cou		AGLI 14	Swine Production	3.0 CSU	prerec	quisite courses with no grade less	s than a "C" for
	Justice System			discuss transferability of courses.		AGLI 16	Horse Production	4.0 CSU, UC		course and no more than one rep	
ADJU 2	Principles and Procedures of	3.0 CSU		,		AGLI 17	Sheep Production	3.0 CSU		f these courses.	
	the Justice System		-	ments for the Certificate		AGLI 30	Beef Production	3.0 CSU	2. A cum	nulative grade point average (GP)	A) of 2.5 for all
ADJU 3	Concepts of Criminal Law	3.0 CSU,UC	Required c		2.0.000	AGLI 34	Livestock Judging and Selection		colleg	e coursework completed.	
ADJU 4	Legal Aspects of Evidence	3.0 CSU	BUSL 30	Introduction to Paralegal/Legal		AGLI 96	Animal Sanitation and	3.0 CSU		ility for Math 51	
ADJU 5	Community Relations	3.0 CSU, UC	BUSL 35A	Law Office Procedures	3.0		Disease Control		4. High s	school graduation or GED or acad	lemic degree
ADJU 68	Administration of Justice	3.0	BUSL 35B	Automated Law Office	3.0	PLUS			from a	an accredited college/university	in the
	Report Writing			Procedures	2.0	Select six (6) units from:		Unite	d States.	
PLUS			BUSO 5	Business English	3.0	AGOR 71	Landscape Construction	3.0 CSU		ss a California Licensed Vocationa	
	r (4) courses from:		BUSO 25	Business Communications	3.0 CSU		Fundamentals			nal background check and drug s	
ADJU 6	Concepts of Enforcement	3.0	COMP 1	Computer Keyboarding	4.0 CSU	BUSM 20	Principles of Business	3.0 CSU, UC		mpleted prior to any patient cont	
	Services		COMP 2	Intermediate Computer	4.0	BUSM 66	Small Business Management	3.0		sical examination, including spec	
ADJU 13	Concepts of Traffic Services	3.0	COMP 11	Keyboarding Internet Research for Business	2.0 CSU	BUSS 35	Professional Selling	3.0 CSU		inizations is required of candidat	es prior to the
ADJU 20	Principles of Investigation	3.0 CSU				BUSS 36	Principles of Marketing	3.0 CSU	-	ning of nursing classes.	
ADJU 38	Narcotics Investigation	3.0	COMP 12	Office Computer Applications,	4.0 CSU, UC		Total Units	42.0		nt Level C-Provider CPR certificat	
ADJU 59	Gangs in the Community/	3.0 CSU	CISB 15	<u>or</u> Microcomputer Applications	4.0 CSU, UC		iotal offics	72.0		ng 70 Role Transition must be com	
401174	Corrections	2.0	COMP 20	Microsoft Word, <u>or</u>	4.0 4.0		Unit Ontion			it grade prior to entrance into the	
ADJU 74	Vice Control	3.0		Microsoft Word – Level 1, and	4.0 1.0)-Unit Option – Mobility Track			5 70, Role Transition — Due to the cli RS 70, applicants must submit theii	
CORS 30	Ethnic Relations in Corrections	3.0		Microsoft Word-Level 2	1.0		•			ng Office for approval prior to enrol	
CORS 40	Crime and Delinquency	3.0	COMP 120L	Office Management Skills	3.0		Department te 61202			e. Applicants must have completed	
CORS 45	The Violent Offender	3.0	COMP 28	Computer Keyboarding	0.5		with Section 1429 of the Board	of Pagistarad		es prior to taking NURS 70. Applicar	
	Total Units	30.0	COMP 29	Skill Building	0.5		iles and Regulations, completion			of current Vocational Nurse License	
Recomme	nded Electives:		COMP 68	Transcription Techniques	3.0		program entitles the student to a			nd, Background Check, and drug te	
PE-F 50	Physical Skills Preparation for						on for licensure as a Registered N		to the	start of class.)	
12150	Law Enforcement and Fire Scier	nce		Total Units 37.5 -			lifornia. This option is specifically		Require	ments for the Certificate	e
PE-F 51	Agility Testing Preparation for			core courses for the Legal Office Spe			licensees. Other states do not hav		Required		
Law Enforcement and Fire Scien		nce	certificate are equivalent to the courses required for the			n their laws; therefore, endorsem	ent for	NURS 5	Psychiatric Nursing	3.0 CSU	
PE-F 52	Fitness and Conditioning for Lay	w Enforcement,	Administra	tive Assistant Levels I and II certifica	ites.		nay not be granted.		NURS 8	Medical-Surgical Nursing:	5.0 CSU
	Fire Science and Forestry						ificate of completion is awarded a			Circulation and Oxygenation	
SPAN 66	Spanish for Fire and Police Perso	onnel	Livesto	ock Management			of study. The student who elects		NURS 9	Leadership in Nursing	1.0 CSU
				Iral Sciences Department			it Option track is not a graduate of		NURS 10	Medical-Surgical Nursing:	4.0 CSU
			Certificat				n Science Degree Nursing Program			Integration/Regulation	
			TI				mede individuais who complete i				

This certificate program is designed to give students

basic skills in livestock management for employment

opportunities on farms, ranches, and agriculture sales

and services. All courses are applicable for degree

requirements.

NURS 11 Preceptorship in Nursing 2.0 CSU **Total Units**

Antonio College. Individuals who complete this track are

declare their educational goal at the time of application

(30-Unit or Associate Degree). This decision is not subject

not eligible to return to the college at a later date to

complete a degree in nursing. LVN applicants must

to change at a later date.

15.0

PSYC 1A must be completed prior to entrance into NURS 5, Psychiatric Nursing.

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Programs of Study Leading to a Certificate Technical Mathematics –

Manufacturing Applications

2.0 CSU

MFG 70

Selection Process:

Beginning Fall 2006, students applying for admission to the Nursing Program will be required to see either a counselor or educational advisor to verify their eligibility to enter the Nursing program.

Procedure:

Students must complete all course prerequisites prior to requesting an appointment for certifying readiness to enter into the Nursing program. Once eligibility has been established, students will enter on a first come first served basis.

Eligibility Appointment:

- 1. Once a student has completed all course prerequisites. they may request an appointment with a counselor or educational advisor.
- 2. Students who have completed coursework at other colleges must bring the following information to their eligibility appointment:
 - a. Official transcripts of all college work completed at all colleges:
 - b. If the prerequisite courses were completed at another college, a course description and a copy of the course syllabus;
 - c. Students completing college coursework outside of the United United States will need to have their transcripts evaluated by an approved international transcript evaluation agency and must bring the final evaluation to their appointment (students may be able to obtain a list of agencies from the Admissions & Records Office.)
 - d. All students will need to bring official proof of high school graduation, GED, or college graduation from an accredited institution in the United States.

Appointments for Eligibility Verification will only be made during the Following Months:

September 1 - November 30 March 1 - May 30

Students should also be aware that once they have been admitted to the Nursing program and before beginning the clinical portion of the program, they will need to be able to pass both a criminal background check, including a screening by the Office of Inspector General for welfare or Social Security fraud, as well as testing negative for drug use.

Note: Final selection of students for each nursing class will be determined by lottery.

All Applicants are Required to meet the Essential Functions for Success in the Nursing Program:	Machine Operator Aircraft Maintenance Technology &		
 Physical Demands Perform prolonged, extensive, or considerable 	Manufacturing Department Certificate 60956		
standing/walking, lifting positioning, pushing, and/or transferring patients	This certificate provides a foundation of basic ment in a variety of entry-level manufacture		
 Possess the ability to perform fine motor movements with hands and fingers 	Requirements for the Certificate Required courses:	ficate	
 Possess the ability for extremely heavy effort (<i>lift/carry 50 lbs. or more</i>) 	MFG 11 Manual and CNC Manufacturin Essentials	facturing	
 Perform considerable reaching, stooping, bending, kneeling, and crouching. 	MFG 12 Advanced Manufacturing Processes	ng	
Sensory Demands	MFG 58 Blueprint Reading for Manufacturing		
 <u>Color vision</u>: ability to distinguish and identify colors (may be corrected with adaptive devices) 	MFG 70 Technical Mathematics –		
Distance vision: ability to see clearly 20 feet or more	Manufacturing Applications		

- Distance visio Depth perception: ability to judge distance and space relationships
- Near vision: ability to see clearly 20 inches or less
- Hearing: able to recognize a full range of tones

Working Environment:

- May be exposed to infectious and contagious disease, without prior notification
- Regularly exposed to the risk of blood borne diseases
- Exposed to hazardous agents, body fluids and wastes
- Exposed to odorous chemicals and specimens
- Subject to hazards of flammable, explosive gases Subject to burns and cuts
- Contact with patients having different religious, culture, ethnicity, race, sexual orientation, psychological and physical disabilities, and under a wide variety of circumstances
- Handle emergency or crisis situations
- Subject to many interruptions
- Requires judgment/action which could result in death of a patient
- Exposed to products containing latex

Enalish Lanauaae Skills

Although proficiency in English is not a criteria for admission into the nursing program, students are encouraged to be able to speak, write and read English to complete classes successfully and to ensure safety for themselves and others.

Machine Operator Aircraft Maintenance Technology & Manufacturing Department Certificate 60956							
	ate provides a foundation of basic sk variety of entry-level manufacturin						
Require Required of	ments for the Certificate ourses:						
MFG 11	Manual and CNC Manufacturing Essentials	2.0	CSU				
MFG 12	Advanced Manufacturing Processes	2.0	CSU				
MFG 58	Blueprint Reading for Manufacturing	2.0					
MFG 70	Technical Mathematics – Manufacturing Applications	2.0	CSU				
MFG 85	Manual CNC (Computerized Numerical Control) Operations	2.0	CSU				
PLUS							
Select one	Select one (1) course from:						
MFG 38	MasterCAM I	2.0	CSU				
MFG 39	SurfCAM I	2.0	CSU				
	Total Units	12.0					

Manufacturing Technology Aircraft Maintenance Technology & Manufacturing Department Certificate 60918

The primary purpose of this program is to emphasize the manipulative skills required to enter the field of machine metal worker, machine operator, production machinist, mechanical technician, or machinist.

Requirements for the Certificate Required courses:

MFG 11	Manufacturing Processes I	2.0	CSU
MFG 12	Manufacturing Processes II	2.0	CSU
MFG 15	AutoCAD 2D	2.0	
MFG 17	3-D CAD – Mechanical Modeling	2.0	
MFG 19	Parametric Solid Modeling for Manufacturing	2.0	
MFG 38	MasterCAM I	2.0	CSU
MFG 38B	Advanced MasterCAM	2.0	CSU
MFG 38C	MasterCAM Solids	2.0	
MFG 39	SurfCAM I	2.0	CSU
MFG 39B	SurfCAM II	2.0	CSU
MFG 58	Blueprint Reading for Manufacturing	2.0	

PLUS Select two (2) courses from: MFG 25 Advanced Parametric Solid Modeling for Manufacturing MFG 27 Autodesk Inventor		ting Management		
PLUS Select two (2) courses from: MFG 25 Advanced Parametric Solid Modeling for Manufacturing MFG 27 Autodesk Inventor		Total Units	30.0	
Numerical Control) Operations PLUS Select two (2) courses from: MFG 25 Advanced Parametric Solid Modeling for Manufacturing	WELD 40	Introduction to Welding	2.0	CSU
Numerical Control) Operations PLUS Select two (2) courses from: MFG 25 Advanced Parametric Solid 2.0	MFG 27	Autodesk Inventor	2.0	
Numerical Control) Operations PLUS	MFG 25		2.0	
Numerical Control) Operations		(2) courses from:		
	MFG 85	Manual CNC (Computerized Numerical Control) Operations	2.0	CSU

Marketing Management **Business Administration Department**

Certificate 60510

Requirements for the Certificate Required courses:

	Total Units	25.0	
CISB 15	Microcomputer Applications	4.0	CSU, UC
BUSS 85	Special Issues in Marketing	2.0	
BUSS 79	Work Experience in Marketing Management	1.0	
BUSS 70	International Marketing Concepts	3.0	
BUSS 50	Retail Store Management and Merchandising	3.0	
BUSS 36	Principles of Marketing	3.0	CSU
BUSS 35	Professional Selling	3.0	CSU
BUSM 61	Business Organization and Management	3.0	CSU
BUSM 20	Principles of Business	3.0	CSU, UC

MasterCAM

Aircraft Maintenance Technology & Manufacturing Department Certificate 60927

This certificate provides a strong background in MasterCAM 2-D, 3-D, and Solids packages along with the necessary machine shop theory and practice to input sound functional data into the CAD/CAM system.

Requirements for the Certificate Reauired courses:

	Total Units	8.0	
MFG 38C	MasterCAM Solids	2.0	
MFG 11 MFG 38 MFG 38B	Advanced MasterCAM	2.0	CSL
MFG 38	MasterCAM I	2.0	CSU
MFG 11	Manufacturing Processes I	2.0	CSL

Medical Office Specialist Office Technology Department Certificate 60523 This program is intended to prepare students for employment as entry-level medical office assistants, medical receptionists, administrative assistants – medical, medical office managers, or other office support staff in the medical field. Training in a variety of computer and clerical skills is emphasized. Students desiring a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses. Requirements for the Certificate Required courses: BUSA 72 Bookkeeping – Accounting 5.0 BUS0 5 Business English 3.0 BUS0 5 Business Communications 3.0 CSU COMP 1 Computer Keyboarding 4.0 CSU COMP 12 Office Computer Applications, <u>or</u> 4.0 CSU, UC COMP 12 Office Computer Applications 4.0 CSU, UC COMP 12 Microsoft Word, <u>or</u> 4.0 COMP 120 COMP 120 Microsoft Word – Level 1, <u>and</u> 1.0 COMP 120A Microsoft Word – Level 1, <u>and</u> 1.0 COMP 120 Microsoft Word – Level 1, <u>and</u> 1.0 COMP 120B Microsoft Word – Level 1, <u>and</u> 1.0	TechnologyMENT 70LIntroduction to Psychiatric2.0Technology Clinical TechniciansTechnology Clinical TechniciansMENT 72Nursing Care of the7.0Developmentally DisabledPersonMENT 72LNursing Care of the5.0Developmentally DisabledPerson - ClinicalMENT 73LPsychiatric Nursing for5.0Psychiatric Technicians ClinicalMENT 73TMENT 73TPsychiatric Nursing for6.0Psychiatric TechniciansSuperiorPSYC 1AIntroduction to Psychology3.0CSU, UCTotal Units51.0Special Information:To remain in the program, students must maintain a"C" or better grade in all courses. The student will qualify to take the CaliforniaState Board Examination upon completion of all the above courses.Entrance Requirements and Selection Procedures:	 e. Take the required English Placement Test (AWE). Eligibility for ENGL 68 is advised. If you have already taken a college placement exam within the past two years at another school, arrange to have your test scores forwarded to the Technology and Health Division Office. (<i>If you were tested at Mt. San Antonio</i> <i>College, the office will obtain the test scores as long as an</i> <i>"Application for Admission" is on file with the</i> <i>Admissions and Records Office.</i>) Testing is administered by the Assessment Center, located in the Student Services Center. Arrangements should be made with them to schedule a day and time to take the English Placement Test, if required. The Assessment Center is open Monday through Friday. You may contact them at (909) 594-5611, ext. 4265. f. Forward two official transcripts of all coursework completed (<i>high school, nursing school, and other than</i> <i>Mt. San Antonio College courses.</i>) One transcript must be sent to the Technology and Health Division Office and the other to the Admissions and Records Office. g. For students who possess a college degree, the English Placement Test is not required. However, it will be necessary for a student to obtain two official copies of the college transcript showing the degree issued. One transcript must be sent to the Technology and Health Division Office and the other to the Admissions and Records Office. Note: Concerning Entrance Requirements 'e' and 'f', if the course(s) were taken and/or the degree obtained at Mt. San Antonio College, it is not necessary to request transcripts. Indicate in the mailing address the program for which your transcript is being sent to the Technology and Health Division Office. 	 i. Certain convictions may prevent a candidate from being licensed as a Psychiatric Technician. j. All students may be required to complete a background check prior to entering the clinical education phase. Selection Procedure: In determining eligibility of an applicant, consideration will be given to satisfactory scores on the English Placement Test. The College will make every effort to notify the applicant of acceptance by mail no less than two months prior to the beginning of a program. Microcomputer Productivity Software Computer Information Systems Department Certificate 60702 This certificate program is intended to prepare students to use the most popular microcomputer productivity software packages and operating systems: DOS, Microsoft Windows, Microsoft Word, Corel WordPerfect, Microsoft Excel or Lotus 1-2-3, and Microsoft Access. Requirements for the Certificate Required courses: CISB 13 Microsoft Windows, or 2.0 CSU CISB 13 Microsoft Excel 4.0 CISD 11 Database Management – 4.0 CSU CISW 11 The Internet 4.0 CSU COSU USU 10 Desktop Presentations 4.0 CSU CISW 11 The Internet 4.0 CSU
MEDI 90 Medical Terminology 3.0 CSU Total Units 37.0 - 39.0 Note: The core courses for the Medical Specialist certificate are equivalent to the courses required for the Administrative	The student will qualify to take the California State Board Examination upon completion of all the above courses. Entrance Requirements and	obtained at Mt. San Antonio College, it is not necessary to request transcripts. Indicate in the mailing address the program for which your transcript is being sent to the Technology and Health Division Office.	CISB 21Microsoft Excel4.0CISD 11Database Management –4.0MicrocomputersMicrocomputersCISW 11The Internet4.0
Assistant Levels I and II certificates. Mental Health Technology – Psychiatric Technician Mental Health Department Certificate 61209 Upon completion of the required courses, a Certificate in Psychiatric Technician will be awarded. In addition, it prepares the student to take the California State Board Examination for Psychiatric Technicians. Requirements for the Certificate Required courses: MENT 40 Introduction to Interviewing 3.0 and Counseling, <u>or</u> PSYC 40 Introduction to Interviewing 3.0 and Counseling	 In addition to meeting Mt. San Antonio College's academic standards for admission, applicants must be in good standing and satisfy the following requirements: Be a high school graduate or equivalent. (All students who have taken coursework outside of the United States must have their transcript evaluated. Foreign transcripts will not be accepted without the evaluation.) Be 18 years of age. File a college application and be accepted as a student at Mt. San Antonio College. Submit an application for the Mental Health/Psychiatric Technician Program to the Technology and Health Division Office (909) 594-5611, ext. 4750. All applications are dated upon receipt in the Technology and Health Division Office. A program begins each fall and spring semester. 	 Example: Mt. San Antonio College Technology and Health Division Psychiatric Technician Program 1100 North Grand Avenue Walnut, CA 91789-1399 h. A physical examination, including specific immunizations, and consent/ disclaimer for Hepatitis A/B vaccine is required of all candidates prior to beginning classes. Students must provide proof that he/she does not have Tuberculosis. These requirements are in accordance with the healthcare agency policy that insures that students are in good health and free from communicable disease and able to perform their training functions. Drug testing may also be required as part of this physical examination. Proof of high school graduation and malpractice insurance are required of all candidates upon acceptance. 	Total Units 22.0 - 24.0 Nursery Management Agricultural Sciences Department Certificate 60107 This certificate 60107 This certificate program is designed to give students basic skills in production and marketing of plants and dry goods in the wholesale and retail nursery industry. All courses are applicable for degree requirements. Requirements for the Certificate Required courses: 3.0 CSU AGOR 1 Horticultural Science 3.0 CSU AGOR 2 Plant Propagation/Greenhouse 3.0 CSU

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								FIU	granis o	Study Leading to a	certificate
AGOR 24 Agor 29	Integrated Pest Management Ornamental Plants –	3.0 CSU 3.0 CSU,UC	Required o			Parametric Solid Modeling Pet Science					
	Herbaceous Ornamontal Plants		Level I as fo			Aircraft Maintenance Technology & Manufacturing Department			Agricultural Sciences Department Certificate 60104		
AGOR 30	Ornamental Plants — Trees and Woody Shrubs	3.0 CSU, UC	HRM 52	Food Safety and Sanitation	1.5 CSU	Certificate 60923			This certificate program is designed to give students		
AGOR 32	Landscaping and Nursery	3.0 CSU	NF 20 NF 25	Principles of Foods with Lab Essentials of Nutrition, <u>or</u>	3.0 CSU 3.0 CSU,UC		strong relationship between Auto		basic skills in production and marketing of pets at the		pets at the
	Management		NF 25H	Essentials of Nutrition, <u>or</u>	3.0 CSU, UC	Manufacturing, this mini certificate glides the student			wholesale and retail level. All courses are applicable for		
AGOR 39	Turf Grass Production and	3.0 CSU		Honors, <u>or</u>	5.0 650,00	CSU, UC through AutoDesk's 2-D, 3-D, Mechanical Desktop, and Inventors packages and relates them to real-life			-	quirements.	
AGOR 62	Management Landscape Irrigation —	3.0 CSU	NF 10	Nutrition for Personal Health	3.0 CSU	industrial			Requirements for the Certificate Required courses:		
AUDIT 02	Design and Installation	5.0 (50	NF 20	and Wellness Cultured and Ethnia Faceda		Require	ments for the Certificate		AGAB 20	Microcomputer Applications	3.0 CSU, UC
AGOR 64	Landscape Irrigation –	3.0	NF 28	Cultural and Ethnic Foods	3.0 CSU, UC	Required	courses:			in Agriculture	J.0 CJ0,0C
	Drip and Low Volume			ollowing courses:		MFG 15	AutoCAD 2D	2.0	AGAN 1	Animal Science	3.0 CSU, UC
	Total Units	27.0	CHLD 10	Child Growth and Developmen		MFG 17	3-D CAD – Mechanical	2.0	AGAN 2	Animal Nutrition	3.0 CSU, UC
			CHLD 64	Health, Safety and Nutrition of Young Children	3.0	MEC 10	Modeling	2.0	AGAN 51	Animal Handling and Restraint	3.0 CSU
	ion Program Assistaı	nt –	CHLD 83	Current Issues in Child	1.0	MFG 19	Parametric Solid Modeling for Manufacturing	2.0	AGAN 94	Animal Breeding	3.0
Level I				Development	1.0	MFG 25	Advanced Parametric Solid	2.0	AGLI 96	Animal Sanitation and	3.0 CSU
	er Science and Design Tec te 61331	hnologies		Total Units	17.5		Modeling for Manufacturing		AGPE 70	Disease Control Pet Shop Management	3.0
		· · · · · · · · · · · · · · · · · · ·				MFG 27	Autodesk Inventor	2.0	AGPE 70 AGPE 71	Canine Management	3.0
	icate prepares students to work t and programs as nutrition assista		Nutriti	on Program Assistar	nt –		Total Units	10.0	AGPE 72	Feline Management	3.0
2	ments for the Certificate			I: Weight Manageme					AGPE 73	Tropical and Coldwater	2.0
Required				m Emphasis		Park N	lanagement			Fish Management	
HRM 52	Food Safety and Sanitation	1.5 CSU		velopment Department		Agricultural Sciences Department			AGPE 74	Reptile Management	2.0
NF 20	Principles of Foods with Lab	3.0 CSU		te 61336			te 60116		AGPE 76	Aviculture – Cage and	3.0
NF 25	Essentials of Nutrition, <u>or</u>	3.0 CSU, UC		cate prepares students to work a			icate program is designed to give		DUCMCC	Aviary Birds	3.0 CSU
NF 25H	Essentials of Nutrition –	3.0 CSU, UC		in the public or private sector. Co o provide the basic skills and kn			or entry level positions in park m is placed on positions that are at		BUSM 66	Small Business Management	
	Honors, <u>or</u>			or entry-level positions in a variet			rel. All courses are applicable for			Total Units	37.0
NF 10	Nutrition for Personal Health	3.0 CSU		nd programs that focus on weight		requireme		uegiee			
NF 28	and Wellness Cultural and Ethnic Foods	3.0 CSU, UC	Require	ments for the Certificate	-	Require	ments for the Certificate			graphy	
INF ZO			Required o	ourses:		Required			Photogr Certifica	aphics Department te 61002	
	Total Units	10.5	Level I as fo	ollows:		AGOR 1	Horticultural Science	3.0 CSU		icate program is designed to prep	are students
NI	· D	- 4	HRM 52	Food Safety and Sanitation	1.5 CSU	AGOR 4	Park Management	3.0		specific skills needed for employ	
	ion Program Assistaı I: Child Program Em		NF 20	Principles of Foods with Lab	3.0 CSU	AGOR 5	Park Facilities	3.0	photograp	hy, art, cinema/animation, comm	
	evelopment Department	phasis	NF 25	Essentials of Nutrition, <u>or</u>	3.0 CSU, UC	AGOR 24	Integrated Pest Management	3.0 CSU	industrial	arts, graphics, and journalism.	
	ite 61335		NF 25H	Essentials of Nutrition –	3.0 CSU, UC	AGOR 30	Ornamental Plants – Trees and Woody Shrubs	3.0 CSU, UC		ments for the Certificate	
This certifi	icate prepares students to work t	for community	NF 10	Honors, <u>or</u> Nutrition for Personal Health	3.0 CSU	AGOR 39	Turf Grass Production and	3.0 CSU	Required		
	such as the Federal Supplementa		NEIU	and Wellness	3.0 C30	Addit 55	Management	5.0 050	GRAP 10	Photo Editing with Photoshop	3.0
	or Women, Infants and Children		NF 28	Cultural and Ethnic Foods	3.0 CSU, UC	AGOR 51	Tractor and Landscape	3.0 CSU	PHOT 10	Basic Digital and Film	3.0 CSU, UC
Start, and School Food Service as nutrition assistants. Coursework is designed to provide basic skills and knowledge necessary to entry-level positions in nutrition		-	ollowing courses:	,,,		Equipment Operations		PHOT 11	Photography Advanced Professional	4.0	
		NF 81	Cooking for Your Heart and	1.0	AGOR 62	Landscape Irrigation –	3.0 CSU		Photography	т . v	
	that serve children.			Health	1.0		Design and Installation	2.0	PHOT 12	Photographic Alternatives, <u>or</u>	3.0 CSU, UC
			PE 34	Fitness for Living	3.0 CSU, UC	AGOR 63	Landscape Irrigation Systems Management	3.0	PHOT 21	Exploring Color Photography	3.0
			PSYC 40	Introduction to Interviewing	3.0	AGOR 75	Urban Arboriculture	3.0	PHOT 16	Fashion Photography, <u>or</u>	3.0
				and Counseling			Total Units	30.0	PHOT 18	Portraiture and Wedding	3.0
				Total Units	17.5			50.0		Photography	

PHOT 17	Photocommunication	3.0
PHOT 20	Color Photography	3.0
PHOT 28	Photography Portfolio Development	2.0
PHOT 30	Commercial and Illustrative Photography	3.0
	Total Units	27.0
Recomme	nded Electives:	
AHIS 1	Understanding the Visual Arts	, <u>or</u>
ARTB 1	Understanding the Visual Arts	
GRAP 12	Advanced Photo Editing with	Photoshop
PHOT 1	Laboratory Studies: Black and Photography	White
PHOT 2	Laboratory Studies: Color Pho	tography
PHOT 15	History of Photography	·

Programming In C++

Computer	Information	Systems	Department
Certificate	60704		

This certificate program is intended to prepare students to use the C++ programming language in a business environment. **Requirements for the Certificate**

Required	ourses:			
CISB 11	Computer Information Systems	3.5	CSU, UC	R
CISD 11	Database Management — Microcomputers	4.0	CSU	R
CISM 11	Systems Analysis and Design	3.5	CSU, UC	R
CISM 21	Client/Server Architecture, or	4.0		R
CISP 21	Programming in Java	4.0	CSU, UC	R
CISN 21	Windows Operating System	4.0	CSU	^ĸ
CISP 31	Programming in C++	4.0	CSU, UC	R
CISP 34	Advanced C++ Programming	4.0	CSU, UC	''
	Total Units	27.0		R

Programming In Visual Basic

Computer Information Systems Department Certificate 60709

This certificate is intended to prepare students to work in Visual Basic which is used to develop graphical user interfaces and client/server applications.

Requirements for the Certificate Required courses:

CISB 11 Computer Information Systems 3.5 CSU, UC Database Management -4.0 CSU CISD 11 Microcomputers

	Total Units	27.0	
CISP 14	Advanced Basic Programming	4.0	CSU, U
CISP 11	Basic Programming	4.0	CSU, U
CISM 21	Client/Server Architecture	4.0	
	Systems Seminar		
CISM 14	Computer Information	4.0	
CISM 11	Systems Analysis and Design	3.5	CSU, U

Radio Broadcasting: Behind the Scenes Art Department

Certificate 60606

The Behind-the-Scenes Radio Broadcasting Certificate is designed for students who are interested in the nonperformance side of the industry. Students will receive instruction in the various functions of a radio station as they exist independently and in conjunction with the on-the-air product.

Requirements for the Certificate Required courses:

	Total Units 33	.0 - 34.0	
R-TV 27	Radio Drama	3.0	
	Entertainment Law		
R-TV 26	Legal Issues in	3.0	
R-TV 17	Internet Radio Broadcasting	3.0	
R-TV 12	Commercial Copywriting	3.0	
R-TV 08	KSAK Radio Studio Operatio	ns 2.0	CSU
R-TV 06	Broadcast Traffic Reporting	1.5	
R-TV 05	Radio-TV Newswriting	3.0	
R-TV 03	Sportscasting and Reporting	g 1.5	
Select nine	(9) units from:		
PLUS	·		
n-1v9/D	Entertainment Industry Internship – KSAK Radio	2.0	
R-TV 97D	Internship – KSAK Radio, <u>or</u>	2.0	
R-TV 97C	Entertainment Industry	1.0	
R-TV 97B	Radio/Entertainment Indust Internship		
D TV 07D	Seminar		
R-TV 97A	Radio/Entertainment Indust	try 1.0	
R-TV 16	Broadcast Career Preparatio	n 3.0	
R-TV 15	Broadcast Business Practices	s 3.0	
R-TV 11B	Advanced Radio Production	3.0	CSU
R-TV 11A	Beginning Radio Production	3.0	CSU
	Radio Management and Programming	5.0	
R-TV 09 R-TV 10		ion 3.0 3.0	
R-TV 01 R-TV 09	Introduction to Broadcasting Broadcast Sales and Promot	5	CSU
	Introduction to Drop I the	- 20	CCU

Radio Broadcasting: On the Air Art Department Certificate 60605 This On-the-Air Radio Broadcasting Certificate is designed for students who are interested in working in the performance side of the industry. Students receive instruction in developing skills needed to work as disc jockeys, newscasters, voice-over artists and in other performance areas of the industry.

Requirements for the Certificate Required courses:

neguneu co	u13e3.		
R-TV 01	Introduction to Broadcasting	3.0	CSU
R-TV 02	Radio and Television	3.0	CSU
	Announcing, <u>or</u>		
R-TV 02A	On-Air Personality	3.0	
	Development – Spanish Mark	et	
R-TV 05	Radio-TV Newswriting	3.0	
R-TV 11A	Beginning Radio Production	3.0	
R-TV 11B	Advanced Radio Production	3.0	CSU
R-TV 15	Broadcast Business Practices	3.0	
R-TV 16	Broadcast Career Preparation	3.0	
R-TV 97A	Radio/Entertainment Industry Seminar	1.0	
R-TV 97B	Radio/Entertainment Industry Internship	/ 1.0	
R-TV 97C	Entertainment Industry Internship – KSAK Radio, <u>or</u>	1.0	
R-TV 97D	Entertainment Industry Internship – KSAK Radio	2.0	
PLUS	, i		
Select nine	(9) units from:		
R-TV 03	Sportscasting and Reporting	1.5	
R-TV 04	Broadcast News Field Reportin	ng 3.0	
R-TV 06	Broadcast Traffic Reporting	1.5	
R-TV 08	KSAK Radio Studio Operations	2.0	CSU
R-TV 09	Broadcast Sales and Promotio	n 3.0	
R-TV 10	Radio Management and Programming	3.0	
R-TV 12	Commercial Copywriting	3.0	
R-TV 17	Internet Radio Broadcasting	3.0	
R-TV 26	Legal Issues in Entertainment Law	3.0	
R-TV 27	Radio Drama	3.0	
	Total Units 33.0	- 34.0	

Real Estate

Business Administration Department Certificate 60512

Requirements for the Certificate Re

Required co	urses:		
BUSR 50	Real Estate Principles	3.0	CSU
BUSR 51	Legal Aspects of Real Estate	3.0	
BUSR 52	Real Estate Practice, <u>or</u>	3.0	
BUSR 52D	Real Estate Practice Work	4.0	
	Experience		
BUSR 53	Real Estate Finance	3.0	
BUSR 54	Real Estate Appraisal	3.0	
PLUS			
Select one (1) course from:		
BUSA 11	Fundamentals of Accounting	3.0	
BUSL 18	Business Law	3.0	CSU, UC
BUSR 55	Real Estate Economics	3.0	
BUSR 57	Income Tax Aspects of	3.0	
	Real Estate Investments		
		3.0	
	BUSR 50 BUSR 51 BUSR 52 BUSR 52 BUSR 53 BUSR 54 PLUS Select one (BUSA 11 BUSL 18 BUSR 55 BUSR 57	BUSR 51 Legal Aspects of Real Estate BUSR 52 Real Estate Practice, <u>or</u> BUSR 520 Real Estate Practice Work Experience Experience BUSR 53 Real Estate Finance BUSR 54 Real Estate Appraisal PLUS Select one (1) course from: BUSA 11 Fundamentals of Accounting BUSL 18 Business Law BUSR 55 Real Estate Economics BUSR 57 Income Tax Aspects of	BUSR 50Real Estate Principles3.0BUSR 51Legal Aspects of Real Estate3.0BUSR 52Real Estate Practice, or3.0BUSR 52Real Estate Practice Work4.0ExperienceExperienceBUSR 53Real Estate Finance3.0BUSR 54Real Estate Appraisal3.0PLUSSelect one (1) course from:3.0BUSA 11Fundamentals of Accounting3.0BUSL 18Business Law3.0BUSR 55Real Estate Economics3.0BUSR 57Income Tax Aspects of Real Estate Investments3.0

Management BUSR 76 Escrow Procedures I 3.0 **Total Units** 18.0 - 19.0

Real Estate Appraisal

Business Administration Department Certificate 60513

Requirements for the Certificate Required courses:

BUSR 50	Real Estate Principles	3.0	CSU
BUSR 53	Real Estate Finance	3.0	
BUSR 54	Real Estate Appraisal	3.0	
BUSR 54SE	Standards, Ethics and Statistics for Professional Practice	1.5	
BUSR 56	Advanced Real Estate Appraisal	3.0	
BUSR 66	General Appraiser Report Writing and Case Studies	3.0	
CISB 15	Microcomputer Applications	4.0	CSU, UC
PLUS			
Select one (1) course from:		
BUSA 11	Fundamentals of Accounting	3.0	
BUSO 25	Business Communications	3.0	CSU
BUSR 52	Real Estate Practice	3.0	
BUSR 55	Real Estate Economics	3.0	

	Total Units	23.5	00
INSP 70	and Lending Elements of Construction	3.0	CSU
BUSR 62	Mortgage Loan Brokering	3.0	

School Age Child – Specialization **Child Development Department** Certificate 61314

The School Age Child Specialization Certificate

(31-33 units) provides the holder with specialized skills for working with children of that age. This certificate meets or exceeds Title 5 Master Teacher – School Age Child Permit Level (with 16 units of general education).

Requirements for the Certificate Required courses:

			~ ~	
CHLD 1	Child, Family and Commu	inity	3.0	
CHLD 5	Principles/Practices in		3.0	CSU
	Child Development Prog		~ ~	CC 11
CHLD 6	Survey of Child Developn Curriculum	nent	3.0	CSU
CHLD 10	Child Growth and		3.0	CSU, UC
	Development, <u>or</u>			
CHLD 10H	Child Growth and		3.0	CSU, UC
	Development – Honors			
CHLD 50	Multicultural Education:		3.0	
	Anti-Bias Perspective			
CHLD 51	Early Literacy in		3.0	
	Child Development			
CHLD 62	Music and Motor Develop	oment	3.0	CSU
	for Young Children			
CHLD 64	Health, Safety and Nutrit Young Children	ion of	3.0	
CHLD 74	Program Planning for the	2	3.0	
	School Age Child			
PLUS				
Select one (1) course from:			
ENGL 64	Writing Effective Senten	ces	1.0	
ENGL 65	Grammar Review		1.0	
LIT 40	Children's Literature		3.0	CSU
PLUS				
Select three	e (3) units from:			
LERN 49	Math Skills Review		3.0	
MATH 50	Pre-Algebra		3.0	
	Total Units	31.0 - 3	3.0	

degree requirements.

	Sign La Sign Lang Certificat	Require Required AGOR 1			
			AGOR 24		
		letion of this program, the grad in sign language and will be ab			AGOR 30
	in a variety	of situations. The program pro f the Deaf community, careers v	vides ar	1	AGOR 39
	deaf people	e, teaches American Śign Langu	lage, off	ers	AGOR 40
		erpreting courses, and includes			AGOR 50
		practical approaches that must	be und	erstood	AGOR 51
	To rem	cing interpreter. ain in the program, students m er grade in all courses.	ust mai	ntain a	AGOR 62
		nents for the Certificate			
	Required co				AGOR 63
	SIGN 80	American Sign Language I	4.0	CSU, UC	
	SIGN 81	American Sign Language II	4.0	CSU, UC	
	SIGN 82A	American Sign Language III	4.0	CSU, UC	
	SIGN 82B	American Sign Language IV	4.0	CSU, UC	SurfC/
	SIGN 82C	American Sign Language V	4.0	,	Aircraft
	SIGN 83	Deaf Perspectives	3.0		Manufa Certifica
	SIGN 85	American Deaf Culture	3.0	CSU, UC	
	SIGN 86	American Sign Language	3.0	CSU, UC	This certif students t
		Structure			Numerica
	SIGN 87	Translation: American Sign Language/English	3.0		strong ba
	SIGN 88	Principles of Sign Language Interpreting	3.0		Require Required
	SIGN 88A	Interpreting	4.0		
	SIGN 88B	Advanced Interpreting	4.0		MFG 11
	SIGN 88L	Practicum	1.0		MFG 39
	SPCH 1A	Public Speaking, <u>or</u>	3.0	CSU, UC	MFG 39B MFG 85
	SPCH 1AH	Public Speaking – Honors	3.0	CSU, UC	MFG 85
		Total Units	47.0		
	Recommended Electives:				
	SIGN 89	Finger Spelling			Teleco
	SIGN 92	Oral Interpreting			Comput
	SIGN 99 Special Projects in Sign Language/Interpreting				Certifica
	Sports	Turf Management			This certif to work w
	Agricultural Sciences Department				
	Certificat				Require
	This certific	ate program is designed to pro	vide ski	lls	Required
	required for	r students interested in employ	ment a	t golf	CISB 11
		e tracks, athletic fields and stac			CISM 11
other high use turf areas. All sources are applicable for					

other high use turf areas. All courses are applicable for

				1109		tona) sources a		meare
-	Requires	ments for the Certificate			CISN 11	Telecommunications/ Networking Fundamentals	4.0	CSU
	•		2.0	CC 11	CISN 14	Advanced Telecommunications	4.0	
	AGOR 1	Horticultural Science	5.0	CSU	CISN 14 CISN 41	Novell Netware Systems		CSU
	AGOR 24	Integrated Pest Management		CSU	CISN 41	Administration, <i>or</i>	4.0	CSU
	AGOR 30	Ornamental Plants – Trees and Woody Shrubs		CSU, UC	CISN 24	Microsoft NT Network System	4.0	CSU
	AGOR 39	Turf Grass Production and Management	3.0	CSU	CISW 11	Administration The Internet	4.0	CSU
	AGOR 40	Sports Turf Management	3.0			Total Units	27.0	
	AGOR 50	Soil Science and Management	3.0	CSU, UC				
	AGOR 51	Tractor and Landscape Equipment Operations	3.0	CSU		ion Production		
	AGOR 62	Landscape Irrigation — Design and Installation	3.0	CSU	Art Depa Certificat	e 60602		
	AGOR 63	Landscape Irrigation Systems Management	3.0		Requirer Required co	ments for the Certificate ourses:		
:		-			R-TV 01	Introduction to Broadcasting	3.0	CSU
:		Total Units	27.0		R-TV 15	Broadcast Business Practices	3.0	
:					R-TV 16	Broadcast Career Preparation	3.0	
	SurfCA				R-TV 19A	Beginning Television Production	n 3.0	CSU
	Aircraft I	Maintenance Technology 8	e e		R-TV 19B	Advanced Television Production	3.0	CSU
	Manufac	turing Department			R-TV 98A	Television/Film Seminar	1.0	
					R-TV 98B	Television/Film Internship	1.0	
	tudonts to	cate is a direct path for manufac o write, edit, download and run (turing	torizod	PLUS			
		Control (CNC) machines, and pro				(9) units from:		
		kground in the basics of both ma			R-TV 18	Writing for Television/Film	3.0	CSU
	CNC machi		indui c	ina	R-TV 10	Television News Production	3.0	00
	Requires	ments for the Certificate			R-TV 21	Remote Television Production and Engineering	3.5	
	•		2.0	CC 11	R-TV 22	Electronic Graphics and	3.0	
	MFG 11	Manufacturing Processes I		CSU CSU	111122	Non-Linear Editing	5.0	
	MFG 39 MFG 39B	SurfCAM I SurfCAM II		CSU		Total Units	26.0	
							20.0	
	MFG 85	Manual CNC (Computerized Numerical Control) Operations	2.0	CSU	Recommen	ded Electives:		
					ANIM 115	Storyboarding		
		Total Units	8.0		R-TV 26 THTR 17	Legal Issues in Entertainment La Acting for Television	aw	
	Teleco	mmunications				Acting for relevision		
	Computer Information Systems Department Certificate 60708			Theatri	ical Costumer			
						Department		
	to work wi	cate program is intended to prep th microcomputer networks and ation systems.		Idents		cal Costumer Certificate provides ills needed for employment as a		
	Requirements for the Certificate Required courses:					positions in the fields of theater,		
	CISB 11	Computer Information Systems	35	CSU, UC				
	CISM 11 CISM 21	Systems Analysis and Design Client/Server Architecture		CSU, UC				

Section	8	93

Requirements for the Certificate *Required courses*:

requirea courses:					
ARTD 15A	Drawing: Beginning	3.0	CSU, UC		
FASH 10	Clothing Fundamentals	3.0	CSU		
FASH 17	Textiles	3.0	CSU, UC		
FASH 61	History of Costume and Fashion	3.0	CSU		
THTR 9	Introduction to Theatre Arts	3.0	CSU, UC		
THTR 19	Theatrical Costuming	3.0	CSU, UC		

PLUS Select six (6) units from:

ARTD 20	Design: Two Dimensional	3.0	CSU, UC
THTR 14	Stagecraft	3.0	CSU, UC
THTR 15	Play Rehearsal and Performance	2.0	CSU, UC
THTR 16	Theatrical Make-Up	2.0	CSU, UC
THTR 18	Technical Theater Practicum	1.0	CSU, UC

24.0

Tree Care and Maintenance Agricultural Sciences Department Certificate 60111

Total Units

This certificate program is designed to give students basic skills in the repair and maintenance of trees. All courses are applicable for degree requirements.

Requirements for the Certificate *Required courses:*

	Total Units	24.0	
AGOR 75	Urban Arboriculture	3.0	
AGOR 53	Small Engine Repair I	3.0	CSU
AUUK 21	Equipment Operations	3.0	(30
AGOR 51	Tractor and Landscape	3.0	CSU
AGOR 50	Management Soil Science and Management	3.0	CSU, UC
AGOR 32	Landscaping and Nursery	3.0	CSU
//doi/jo	Trees and Woody Shrubs	5.0	00,00
AGOR 30	Ornamental Plants –	3.0	CSU, UC
AGOR 24	Integrated Pest Management	3.0	CSU
AGOR 1	Horticultural Science	3.0	CSU

Water Technology

Air Conditioning, Water & Welding Technologies Certificate 60921

This program is designed to train students who wish to: (1) seek employment in the water treatment industry, or (2) qualify for a specialized position within the water treatment industry. Material covered in the courses will be helpful to students who wish to prepare for Grade I, Grade II, or Grade III Water Treatment Operator certification examinations given by the State of California, Department of Health, and the AWWA Distribution Operation Certification. It also covers the responsibilities of water supply, State Health Department Title 17 Cross-Connections, and Title 22 Water Quality Standards.

Requirements for the Certificate Reauired courses:

Kequirea c	Requirea courses:				
WATR 60	Introduction to Water Systems	3.0			
WATR 61	Water Treatment	3.0			
WATR 62	Water Distribution	3.0			
WATR 63	Cross Connection Control – Certified Tester	3.0			
WATR 64	Cross Connection Control – Certified Specialist	3.0			
WATR 65	Water Hydraulics and Instrumentation	3.0			
	Total Units	18.0			

Web Page Design Art Department Certificate 60618

This certificate program is designed to provide students with a combination of aesthetic design principles and the technical expertise necessary for employment as a Web page designer.

Requirements for the Certificate *Required courses:*

ANIM 175	Web Animation With Flash	3.0	
ARTC 60	Graphic Design: Lettering and Typography	3.0	CSU, UC
ARTC 70	Computer Graphics: Introduction	3.0	CSU
ARTC 74	Computer Graphics: Web Page Design	3.0	CSU
ARTC 171	Computer Graphics 2: Layout and Design with QuarkXpress	3.0	CSU

		Total Units	25.0	
5	PHOT 10	Beginning Photography	3.0	CSU, UC
	COMP 13	Using Web Page Software	4.0	CSU
-	ARTD 20 COMP 13	Design: Two Dimensional	3.0	CSU, UC

Welding

Air Conditioning, Water & Welding Technologies Certificate 60919

This program is designed to prepare the student for employment in the broad field of welding and (1) leads to occupations in manufacturing and repair; and (2) helps prepare the student for positions in supervision.

Courses in the welding curriculum prepare students for welding certificates. The College is a testing agency for the City of Los Angeles, and is authorized to administer the performance test for the Structural Welding certificate. There is a \$50 charge for students and \$60 for nonstudents to take this test. Topics of the written portion of the test which is administered by the City are reviewed in various welding courses offered by the College.

Requirements for the Certificate *Required courses:*

	Total Units	8.0	
WELD 70B	Intermediate Arc Welding	3.0	
WELD 70A	Beginning Arc Welding	3.0	
WELD 40	Introduction to Welding	2.0	CSU

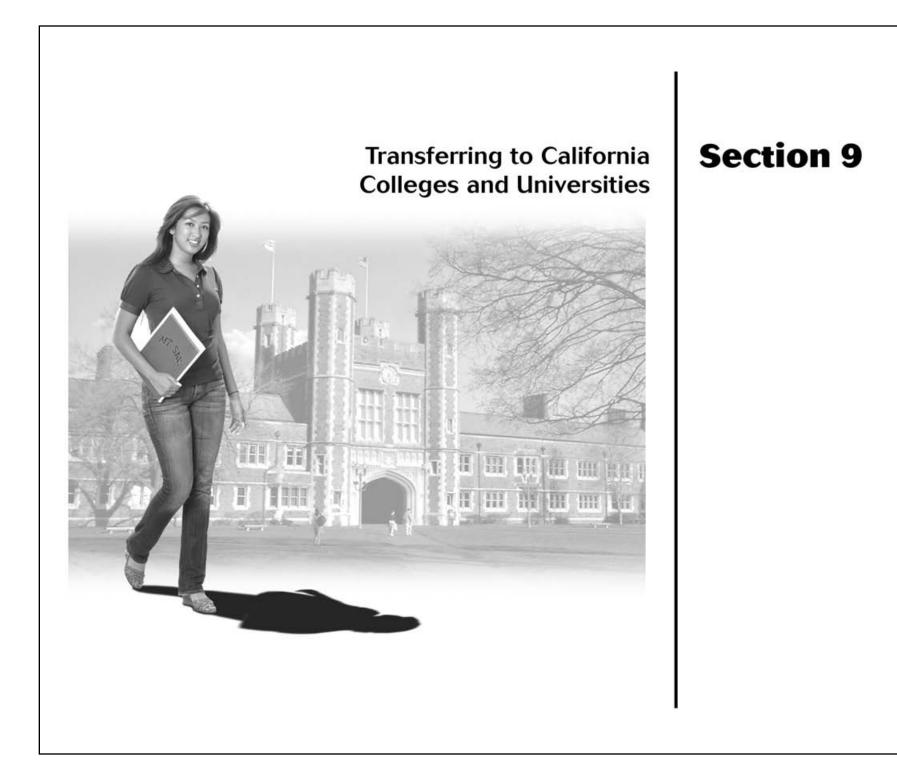
Note: Any higher level welding courses may be substituted for WELD 70A.

Recommended Electives:

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    MFG 70
    Technical Mathematics –
Manufacturing Applications

    WELD 60
    Print Reading and Computations for Welders
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WELD 70C Certification for Welders



PROGRAMS OF STUDY LEADING TO TRANSFER

Mt. San Antonio College offers lower division transfer courses to meet the requirements for most baccalaureate majors offered by accredited colleges and universities in the United States. Students should meet with a counselor or an educational advisor in the Student Services Center for information about transfer courses in their major. It is advised that the student visit the Counseling or Advising Center in advance of the next registration period.

Students should develop an educational plan by the end of their second semester. Students with declared majors are encouraged to consult with an educational advisor in the Advising Center or a counselor in the Counseling Center. Students who are undecided are encouraged to see a counselor or enroll in COUN 5 - Career/Life Planning.

Listed below are majors that may be offered at various campuses of the California State University (CSU) and/or the University of California (UC). Although a serious attempt was made to make this list a comprehensive one, it is not an exact list of every major available. To find out exactly what major is available at any particular university, please visit the Advising Center. All of the CSU and UC catalogs are available in the Advising Center for your use. If you are undecided about which major is right for you, please make an appointment with a counselor in the Counseling Center, Ext. 4380.

Students who are preparing to transfer, especially to a UC campus, are strongly encouraged to balance their studies by taking both general education courses and lower division (freshman/sophomore) major courses. Completing only general education courses, especially for high unit majors, such as business administration, natural sciences, math or engineering, may not be in a student's best interest. Additional coursework may be completed as elective courses, to complement or supplement, a major course of study.

UNIVERSITY TRANSFER MAJOR OPTIONS

Social Sciences

Anthropology

Economics

Asian Studies

Behavioral Sciences

Child Development

Cultural Geography

Ethnic and Area Studies

Chicana/Chicano Studies

Comparative Cultures

Latin American Studies

Middle Fastern Studies

Third World Studies

Human Development

Peace and Conflict Studies

Law and Society

Political Science

Psychology

Legal Studies

History

Native American Studies

European Studies

Liberal Arts

Art Art History Classics **Comparative Cultures** Creative Studies Drama/Theater Arts English and Literature Foreign Languages and l iteratures Humanities Liberal Studies Linguistics Medieval Studies Museum Studies Music Musicoloav Philosophy **Religious Studies Renaissance Studies** Rhetoric

Social Ecology Sociology Urban Studies Women's Studies

Natural Sciences & Math

LIFE SCIENCES **Biological Sciences** Animal Physiology Biochemistry **Biomedical Sciences** Botanv Ecology Environmental Biology Genetics Integrative Biology Marine Biology Microbiology Molecular Biology Zoology Health Sciences

UNIVERSITY TRANSFER MAJOR OPTIONS (continued)

PHYSICAL SCIENCES Astrophysics **Atmospheric Sciences** Chemistry Earth Science Geophysics Geoloav

Oceanography Physical Geography **Physical Sciences** Physics Soil/Water Sciences

MATH Mathematics Statistics **Ouantitative Methods**

Agriculture/Natural **Resources/Environment**

Agricultural Management Aariculture Animal Science **Bio-resources** Conservation Entomology Environmental Biology/ Toxicology Fisheries Environmental Science/Studies Food Science Forestry Natural Resources Management Park Management Petroleum Studies Plant Biology

Applied Arts

Wildlife Management

Soil Sciences

Architecture Art

Desian Graphic Arts Industrial Design Interior Design Landscape

Engineering & **Computer Science**

COMPUTER SCIENCE/ENGINEERING Aeronautics **Bio-engineering** Chemical Civil Electrical/Electronic Environmental Food Engineering Industrial Engineering Materials Science Mechanical Nuclear Petroleum

Business

Accounting Finance Human Resources Management Information Systems International Business Management Marketing Communication Advertising

Communication Studies

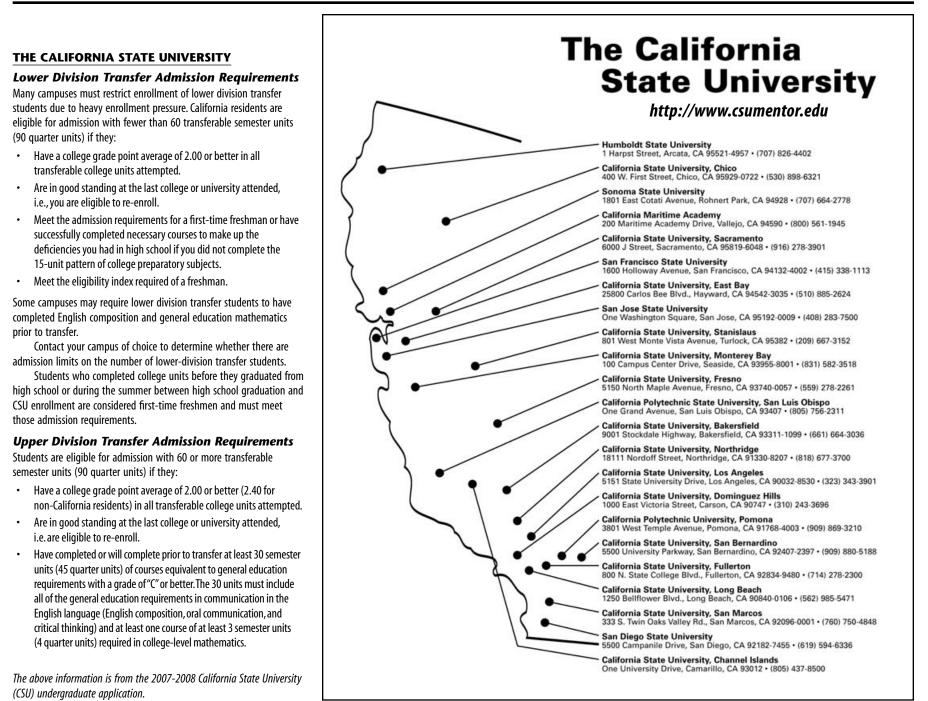
Film Studies Journalism Mass Communication Motion Picture – Television Photography Photo – Journalism Public – Relations Radio – Television Services

Services

Communicative Disorders Counseling Criminal Justice

Dental Hygiene (UCSF) Fire Protection Administration Government/Public Service Health Care Management Human Services Liberal Studies Library Science Medical Lab Technology Nursina Nutrition **Occupational Therapy** Physical Education Public Health Radiologic Technology Recreation Administration Rehabilitation Social Work

Deaf Studies



CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION REQUIREMENTS 2007-08

The requirements listed below are for the 2007-2008 academic year and are based upon information available at the time of catalog publication. Students may contact the Advising Center for most current information at (909) 594-5611, ext. 4293.

Forty-eight units of general education are required to graduate from campuses of the CSU system. A maximum of 39 units may be certified by community colleges; nine units must be taken at the upper division level. Acceptable courses are grouped in five areas, A through E. A maximum of 30 units may be certified from Areas B through D collectively. The list of certifiable courses will be subject to change year by year, but students are assured that courses taken to meet General Education-Breadth Requirements will be honored if they are on the list during the year taken.

minimum grade of "C." Students who have attended other colleges are urged to consult with a counselor or educational advisor for advice on satisfying General Education-Breadth Requirements.

Services, upper level.

Students beginning Fall 2007 must follow 2007-2008 CSU GE-Breadth requirements. Courses are approved for the academic year in which they were completed. Students may obtain a copy from the Advising Center or Counseling Center. For the most recent version of the CSU GE, come to the Advising Center located in Student

The following program is structured so that a student who completes the program will be assured of properly meeting the General Education-Breadth Requirements of CSU. Area A and Mathematics must be completed with a

- 1							
	Area A The English Language and Critical Thinking (9 units) Select <u>one</u> course from each group: A-1: Oral Communication: SPCH 1A Public Speaking, <u>or</u> SPCH 1AH Public Speaking – Honors A-2: Written Communication: ENGL 1A ENGL 1A Freshman Composition ENGL 1A Freshman Composition – Honors A-3: Critical Thinking: ENGL 1C ENGL 1C Critical Thinking and Writing ENGL 1CH Critical Thinking and Writing – Honors PHIL 3 Logic in Practice PHIL 4 Logic in Practice – Honors PHIL 8 Critical Thinking PNU 9 Critical Thinking and Logical Writing PSYC 5 Psychology of Reasoning and Problem Solving SPCH 1B Intermediate Public Speaking SPCH 20 Argumentation and Debate SPCH 20 Argumentation and Debate SPCH 20H Argumentation and Debate	+CHEM 51 GEOG 1 GEOG 1H +GEOG 1L +GEOG 1LH +GEOL 1 GEOL 7 GEOL 8 GEOL 8H +GEOL 8L GEOL 10 GEOL 10 GEOL 10 GEOL 13 METO 3 +METO 3L OCEA 10 OCEA 10H +OCEA 10L PHSC 7 +PHSC 7L +PHYS 1 +PHYS 2AG +PHYS 4A	General Chemistry II Elements of Physical Geography Elements of Physical Geography – Honors Physical Geography Laboratory Physical Geography Laboratory – Honors Physical Geology Geology of California Earth Science Earth Science – Honors Earth Science – Honors Earth Science Laboratory Environmental Geology Natural Disasters Evolution of the Earth Weather and the Atmospheric Environment Weather and the Atmospheric Environment Laboratory Introduction to Oceanography – Honors Introduction to Oceanography – Honors Introduction to Oceanography Laboratory Physical Science Physical Science Physical Science Laboratory Physics General Physics Engineering Physics	courses above a correspond B-4: Mather Select at leas BUSC 17 MATH 100 MATH 110	ent is met by taking ONE of the e indicated by a "+" sign. Lab must be ing section to the lecture course taken.	AHIS 1H AHIS 2 AHIS 2H AHIS 3 AHIS 3H AHIS 4 AHIS 4 AHIS 4 AHIS 5 AHIS 5 AHIS 5H AHIS 6 AHIS 6 AHIS 6 AHIS 6 AHIS 10 AHIS 11 AHIS 12 AHIS 13 AHIS 13 AHIS 13 AHIS 13 AHIS 13 AHIS 13 AHIS 13 AHIS 13 A	Understanding the Visual Arts Topics in Visual Art and Culture Topics in Visual Art and Culture History of Women and Gender History of Women and Gender History of Women and Gender Honors History of Western Art: Prehist Through Gothic – Honors History of Western Art: Prehist Through Modern – Honors History of Western Art: Renais Through Modern – Honors History of Modern Art History of Modern Art History of Modern Art History of Asian Art A History of Greek and Roman and Architecture History of Precolumbian Art History of Precolumbian Art History of Precolumbian Art World Architecture I World Architecture I Basic Studio Arts
	Select <u>one</u> course from each group. Also, one lab (+) course must be included in <u>one</u> of the science groups. B-1: Physical Science –	B-2: Life Scie			Calculus and Analytic Geometry Calculus and Analytic Geometry Calculus and Analytic Geometry	ARTB 14 ARTD 15A ARTD 20	Basic Studio Arts Drawing: Beginning Design: Two Dimensional

B-1: Physical Science – Select at least one course from the following list.

Select at least one course norm the following list.							
ASTR 5	Introduction to Astronomy						
+ASTR 5L	Astronomical Observing Laboratory						
ASTR 7	Geology of the Solar System						
ASTR 8	Introduction to Stars, Galaxies, and						
	the Universe						
+CHEM 10	Chemistry for Allied Health Majors						
+CHEM 20	Introductory Organic and Biochemistry						
+CHEM 40	Introduction to General Chemistry						
+CHEM 50	General Chemistry I						
+CHEM 50H	General Chemistry I – Honors						

	Environment
+METO 3L	Weather and the Atmospheric
	Environment Laboratory
OCEA 10	Introduction to Oceanography
OCEA 10H	Introduction to Oceanography – Hone
+0CEA 10L	Introduction to Oceanography Labora
PHSC 7	Physical Science
+PHSC 7L	Physical Science Laboratory
+PHYS 1	Physics
+PHYS 2AG	General Physics
+PHYS 2BG	General Physics
+PHYS 4A	Engineering Physics
B-2: Life Scie	nce
Select at least	one course from the following list:
AGOR 1	Horticultural Science
+ANAT 10A	Introductory Human Anatomy
+ANAT 10B	Introductory Human Physiology
+ANAT 35	Human Anatomy
+ANAT 36	Human Physiology
ANTH 1	Biological Anthropology
ANTH 1H	Biological Anthropology – Honors
+ANTH 1L	
+BIOL 1	Biological Anthropology Laboratory
	Biological Anthropology Laboratory General Biology
+BIOL 2	
	General Biology

MAIN 120								
MATH 130	College Algebra							
MATH 140	Calculus for Business							
MATH 150	Trigonometry							
MATH 160	Precalculus Mathematics							
MATH 180	Calculus and Analytic Geometry							
MATH 181	Calculus and Analytic Geometry							
MATH 280	Calculus and Analytic Geometry							
MATH 285	Linear Algebra and Differential Equations							
PSYC 10	Statistics for the Behavioral Sciences							
Area C								
Area C								
Arts, Literature, Philosophy and								
Foreign Languages (9 units)								
	urses, with at least <u>one</u> course from							
"Arts" and <u>one</u> course from "Humanities":								

C-1: Arts

AHIS 1 Understanding the Visual Arts, or ARTB 1 Understanding the Visual Arts

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	AHIS 1H	Understanding the Visual Arts — Honors
	AHIS 2	Topics in Visual Art and Culture
	AHIS 2H	Topics in Visual Art and Culture – Honors
	AHIS 3	History of Women and Gender in Art
	AHIS 3H	History of Women and Gender in Art -
		Honors
	AHIS 4	History of Western Art: Prehistoric
		Through Gothic
	AHIS 4H	History of Western Art: Prehistoric
		Through Gothic — Honors
	AHIS 5	History of Western Art: Renaissance
		Through Modern
	AHIS 5H	History of Western Art: Renaissance
		Through Modern — Honors
	AHIS 6	History of Modern Art
	AHIS 6H	History of Modern Art – Honors
	AHIS 9	History of Asian Art
	AHIS 10	A History of Greek and Roman Art
		and Architecture
	AHIS 11	History of African, Oceanic and Native
		American Art
	AHIS 12	History of Precolumbian Art
	AHIS 12H	History of Precolumbian Art – Honors
	ARCH 31	World Architecture I
	ARCH 32	World Architecture II
	ARTB 14	Basic Studio Arts
	ARTD 15A	Drawing: Beginning
	ARTD 20	Design: Two Dimensional
	ARTD 25A	Painting: Beginning
	ARTG 20	Art, Artists and Society
	ARTS 22	Design: Three Dimensional
	ARTS 30A	Ceramics: Beginning
	ARTS 40A	Sculpture: Beginning
	DN-T 20	History and Appreciation of Dance
	ID 180	History of Interior Architecture and
		Furnishings I
	MUS 7	Fundamentals of Music
	MUS 11A	Music Literature Survey
	MUS 11B	Music Literature Survey

		CALI	ORNIA STATE UNIVERSITY GENER	AL EDUCAT	ION REQUIREMENTS 2007-08		
MUS 12	History of Jazz	HUMA 1	The Humanities	SPAN 11	Spanish for the Spanish Speaking	BUSC 1BH	Principles of Economics –
MUS 12 MUS 13	Introduction to Music Appreciation	ITAL 1	Elementary Italian	SPAN 12	Continuing Spanish for the Spanish		Microeconomics – Honors
MUS 13 MUS 13H	Introduction to Music Appreciation –	ITAL 1	Continuing Elementary Italian	JFAN 12	Speaking	JOUR 100	Mass Media and Society
	Honors	ITAL 2	Intermediate Italian	SPAN 25	Spanish Literature		,
MUS 14A	World Music	ITAL 3	Continuing Intermediate Italian		Spanish Enerature	D-3: Ethnic S	
MUS 14A MUS 14B	American Folk Music	ITAL 5	Advanced Italian	Area D		* HIST 30	History of the African American
MUS 14D MUS 15	Rock Music History and Appreciation	ITAL 6	Continuing Advanced Italian	Social, Politi	cal, and Economic Institutions and	* HIST 31	History of the African American
PHOT 15	History of Photography	ITAL 60	Italian Culture Through Cinema		storical Background	* HIST 40	History of the Mexican American
SPCH 4	Oral Interpretation of Literature	JAPN 1	Elementary Japanese		rses: Minimum 9 units with courses from	* HIST 44	History of Native Americans
THTR 9	Introduction to Theatre Arts	JAPN 2	Continuing Elementary Japanese	at least two d	lisciplines (D0 — D9):	JOUR 107	Race, Culture, Sex, and Mass Media Images
THTR 10	History of Theatre Arts	JAPN 3	Intermediate Japanese	D-0: Sociolo	gy & Criminology	POLI 25	Politics of the Mexican American
THTR 10	Principles of Acting I	JAPN 4	Continuing Intermediate Japanese	CHLD 1	Child, Family and Community	POLI 35	African American Politics
	, ,	JAPN 5	Advanced Japanese	SOC 1	Sociology	SOC 20	Sociology of Ethnic Relations
C-2: Humani		LIT 1	Early American Literature	SOC 1H	Sociology – Honors	SOC 20H	Sociology of Ethnic Relations – Honors
CHIN 1	Elementary Chinese	LIT 2	Modern American Literature	SOC 2	Sociology	D-4: Gender	Studies
CHIN 2	Continuing Elementary Chinese	LIT 6A	Survey of English Literature	SOC 2H	Sociology – Honors	* HIST 36	Women in American History —
CHIN 3	Intermediate Chinese	LIT 6B	Survey of English Literature	SOC 4	Introduction to Gerontology		Beyond the Stereotypes
CHIN 4	Continuing Intermediate Chinese	LIT 11A	World Literature	SOC 5	Introduction to Criminology	* PSYC 25	The Psychology of Women
ENGL 1B ENGL 1BH	English — Intro to Literary Types English — Intro to Literary Types — Honors	LIT 11B	World Literature	SOC 14	Marriage and the Family	D-5: Geogra	phy
FRCH 1	Elementary French	LIT 14	Introduction to Modern Poetry	SOC 15	Child Development	GEOG 2	Human Geography
FRCH 1	Continuing Elementary French	LIT 15	Introduction to Cinema	SOC 20	Sociology of Ethnic Relations	GEOG 2H	Human Geography — Honors
FRCH 3	Intermediate French	LIT 20	African American Literature	SOC 20H	Sociology of Ethnic Relations – Honors	GEOG 5	World Regional Geography
FRCH 4	Continuing Intermediate French	LIT 25	Contemporary Mexican American Lit	D-1: Anthroi	oology & Archeology	GEOG 8	The Urban World
FRCH 5	Advanced French	LIT 33	Images of Women in Literature	ANTH 3	Archeology	GEOG 30	Geography of California
FRCH 6	Continuing Advanced French	LIT 35	Science Fiction and Fantasy Survey	ANTH 5	Principles of Cultural Anthropology	D-6: History	2
FRCH 60	French Culture Through Cinema	LIT 36	Introduction to Mythology	ANTH 22	General Cultural Anthropology	* HIST 1	History of the United States
GERM 1	Elementary German	LIT 40	Children's Literature	ANTH 30	The Native American	* HIST 3	History of World Civilization
GERM 2	Continuing Elementary German	LIT 46	The Bible as Literature: Old Testament	D-2: Econom	in	* HIST 3H	History of World Civilization – Honors
GERM 3	Intermediate German	LIT 47	The Bible as Literature: New Testament	AGAG 1	Food Production, Land Use and Politics –	* HIST 4	History of World Civilization
* HIST 1	History of the United States	PHIL 5	Introduction to Philosophy	AUAU I	A Global Perspective	* HIST 4H	History of World Civilization – Honors
* HIST 3	History of World Civilization	PHIL 5H	Introduction to Philosophy – Honors	AGFR 20	Conservation of Natural Resources	* HIST 7	History of the United States
* HIST 3H	History of World Civilization – Honors	PHIL 12	Ethics	BUSC 1A	Principles of Economics –	* HIST 7H	History of the United States – Honors
* HIST 4	History of World Civilization	PHIL 12H	Ethics – Honors	bose in	Macroeconomics	* HIST 8	History of the United States
* HIST 4H	History of World Civilization – Honors	PHIL 15	Major World Religions	BUSC 1AH	Principles of Economics –	* HIST 8H	History of the United States — Honors
* HIST 7	History of the United States	PHIL 15H	Major World Religions – Honors		Macroeconomics – Honors	* HIST 10	History of Asia
* HIST 7H	History of the United States – Honors	PHIL 20A	History of Western Philosophy	BUSC 1B	Principles of Economics – Microeconomics	* HIST 11	History of Asia
* HIST 8	History of the United States	PHIL 20B SIGN 101	History of Western Philosophy		· · · · · · · · · · · · · · · · · · ·		
* HIST 8H	History of the United States – Honors	SIGN 101 SIGN 102	American Sign Language 1	Attention:	It is recommended that you use one of the	options below	as part of the 9 units required in Area D.
* HIST 10	History of Asia	SIGN 102 SIGN 103	American Sign Language 2 American Sign Language 3		,		
* HIST 11	History of Asia	SIGN 103	American Sign Language 4	CSU AME	RICAN INSTITUTIONS & U.S. HISTORY GRA	DUATION REQ	UIREMENT:
* HIST 19	History of Mexico	SIGN 202	American Deaf Culture	Option 1:	HIST 7 (or 7H) + HIST 8 (or 8H)		
* HIST 30	History of the African American	SPAN 1	Elementary Spanish		If Option #1 is selected, DO NOT select a	another D6 cou	rse as your third Area D course.
* HIST 31	History of the African American	SPAN 2	Continuing Elementary Spanish	Option 2:			•
* HIST 35	History of Africa	SPAN 3	Intermediate Spanish		•	tory plus one to	
* HIST 36	Women in American History –	SPAN 4	Continuing Intermediate Spanish		United States History:	Т 21 ШСТ	American Institutions: 40 POLI 1 POLI 25
* ШСТ ЭС	Beyond the Stereotypes	SPAN 5	Advanced Spanish			5T 31 HIST 5T 36	40 POLI 1 POLI 25 POLI 1H POLI 35
* HIST 39	California History	SPAN 6	Continuing Advanced Spanish	TL			
* HIST 40	History of the Mexican American			The two o	courses from Option 1 or Option 2 may be use	ed as part of th	ie 9 units for AKEA D.
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 * HIST 19 * HIST 19 * HIST 30 * HIST 31 * HIST 31 * HIST 31 * HIST 31 * HIST 35 * HIST 35 * HIST 35 * HIST 30 * HIST 40 * HIST 40 * HIST 44 * HIST 30 Child Growth and Development * CHLD 10 Child Growth and Development - Honors * PCY 26 Prepresensal Communication SPCH 26 Interpersonal Communication POLI 1 Political Science POLI 1 Political Science POLI 1 Political Science POLI 2 Political Science POLI 3 Political Science POLI 4 Political Science POLI 5 Political Science POLI 4 Introduction to Psychology * PSYC 1A Introduction to Psychology * PSYC 1A Intr	CALIE	ORNIA STATE UNIVERSITY GENER	AL E	DUCAT	ION REQUIREMENTS 2007-08
 * HIST 30 History of the African American * HIST 31 History of the African American * HIST 31 History of the African American * HIST 35 History of Africa * HIST 39 California History * HIST 30 California History * HIST 30 California History * HIST 44 History of Native Americans * HIST 44 History of Native Americans * HIST 44 History of Native American * HIST 44 History of Native Americans * CHD 10 Child Growth and Development * Opt 24 Interpersonal Communication SPCH 26 Interpersonal Communication POLI 1 Political Science Hoors POLI 1 Political Science Hoors POLI 2 Political Science Hoors POLI 3 Folitical Science Hoors POLI 4 Introduction to Psychology PSYC 14 Introduction to Psychology PSYC 15 A Introduction to Psychology PSYC 16 Abnormal Psychology PSYC 17 Abnormal Psychology PSYC 19 Abnormal Psychology of Women Arcea E MIST 40 Human Sexuality BIOL 15 H					
 * HIST 31 History of the African American * HIST 35 History of Africa * HIST 36 History of Africa * HIST 39 California History * HIST 39 California History * HIST 30 History of Maive American * HIST 40 History of Maive American * HIST 40 History of Maive American * HIST 41 History of Maive American * HIST 40 History of Maive American * HIST 40 History of Maive American * CHD 10 Child Growth and Development - Honors SPCH 26 Interpersonal Communication SPCH 26 Interpersonal Communication SPCH 26 Interpersonal Communication - Honors SPCH 26 Interpersonal Communication SPCH 27 Introduction to Instration SPCH 26 Interpersonal Communication SPCH 26 Interpersonal Communication POIL 19 Political Science - Honors POIL 19 Political Science Hoory POIL 25 Politics of the Mexican American PSY C 25 The Psychology PSYC 25 The Psychology PSYC 25 The Psychology of Women Arca E Lifelong Understanding & Self Development 4 Ald 3 Chemical Dependency: Intervention, Treatment and Recovery<td></td><td></td><td></td><td></td><td></td>					
 * HIST 35 History of Africa * HIST 36 Women in American History – Beyond the Stereotypes * HIST 40 History of the Mexican American * HIST 40 History of the Mexican American * HIST 44 History of the Mexican American * HIST 44 History of the Mexican American * (HLD 10 Child Growth and Development – Honors SPCH 7 Intercultural Communication SPCH 26 Interpersonal Communication SPCH 26 Intervention POLI 3 Political Science POLI 1P olitical Science Theory POLI 5 Political Science Theory PSYC 1A Introduction to Psychology PSYC 1A Introduction		History of the African American			
 * HIST 36 Women in American History – Beyond the Stereotypes * HIST 39 California History / * HIST 40 History of Native American * HIST 44 History of Native Americans D-7: Interdisciplinary Social or Behavioral * (HLD 10 Child Growth and Development – Honors SPCH 7 Intercultural Communication SPCH 26 Interpersonal Communication SPCH 26 Interpersonal Communication – Honors SPCH 7 Intercultural Science American P0L1 1 Political Science – Honors P0L1 2 Political Science – Honors P0L1 2 Political Science – Honors P0L1 2 Political Science – Honors P0L1 3 Political Science – Honors P0L1 3 Political Science – Honors P0L1 4 Political Science – Honors P0L1 5 Political Science Mexican American P0L1 5 Political Science Politics African American Politics PSYC 1A Introduction to International Relations PSYC 1A Introduction to Psychology PSYC 1A Introduction to Psychology PSYC 1A Introduction to Psychology PSYC 1A Introduction to Psychology PSYC 5 The Psychology of Women Area E Lifelong Understanding & Self Development (3 units). Select at least ane course. AD 3 Chemical Dependency: Intervention, Treatment and Recovery BIOL 15 Human Sexuality – Honors * CHLD 10 Child Growth and Development * CHLD 1					
 * PSYC 25 The Psychology of Women * PSYC 26 Psychology of Sexuality * CHLD 10 Child Growth and Development * CHLD 10 Child Growth and Development – Honors PCH 26 Interpersonal Communication SPCH 26 Interpersonal Communication POLI 1 Political Science – Honors POLI 2 Political Science Floory POLI 2 Political Science Phonors POLI 2 Political Science Phonors POLI 3 African American Politics POLI 3 African American Politics POSY 14 Introduction to International Relations POSY 15 Abnormal Psychology PSYC 1A Introduction to Psychology – Honors PSYC 1A Introduction to Psychology – Honors PSYC 25 The Psychology of Women * PSYC 25 The Psychology of Women * PSYC 25 The Psychology of Women * PSYC 25 The Psychology of Women * CHED 10 Child Growth and Development Ad Aging BIOL 15 Human Sexuality <					
 * HIST 39 California History * HIST 40 History of the Mexican American * HIST 44 History of the Mexican American * HIST 44 History of the Mexican American > D-7: Interdisciplinary Social or Behavioral * CHD 10 Child Growth and Development – Honors SPCH 26 Interpersonal Communication SPCH 26 Interpersonal Communication – Honors D-8: Political Science, Government, and Legal Institutions POLI 1 Political Science – Honors POLI 2 Political Science – Honors POLI 35 Political Science – Honors POLI 35 Political Science – Honors POLI 35 Political Science – Honors POLI 42 Political Science – Honors POLI 5 Political Science – Honors POLI 5 Political Science – Honors POLI 5 Political Science – Honors POLI 4 Political Science – Honors POLI 5 Political Science – Honors POLI 5 Political Science – Honors POLI 5 Political Science – Honors PSYC 1A Introduction to Psychology PSYC 25 The Psychology PSYC 1A Introduction to Psychology PSYC 1A	11151 20				The Psychology of Women
 * HIST 40 History of the Mexican American * HIST 44 History of Mative Americans D-7: Interdisciplinary Social or Behavioral * (HLD 10 Child Growth and Development – Honors SPCH 7 Intercultural Communication SPCH 26 Interpersonal Communication – Honors D-8: Political Science, Government, and Legal Institutions POLI 1 Political Science – Honors POLI 1 Political Science – Honors POLI 1 Political Science – Honors POLI 2 Political Science – Honors POLI 2 Political Science – Honors POLI 3 Political Science – Honors POLI 4 Political Science – Honors POLI 5 Political Science Theory PSYC 1A Introduction to Psychology – Honors Sefect at least ane course. AD 3 Chemical Dependency: Intervention, Treatment and Recovery BIOL 5 Contemporary Health Issues BIOL 15 Human Sexuality – Honors CHLD 10 Child Growth and Development * CHLD 15 Human Sexuality – Honora Presonal Health and FS 4 1 Lif	* HIST 30				
 * HIST 44 History of Native Americans * CHLD 10 Child Growth and Development * CHLD 10 Child Growth and Development – Honors SPCH 72 Intercultural Communication – Honors SPCH 26 Interpersonal Communication – Honors SPCH 26 Interpersonal Communication – Honors D-8: Political Science – Monors POLI 1 Political Science – Honors POLI 2 Political Science – Honors POLI 2 Political Science – Honors POLI 2 Political Science – Honors POLI 3 Political Science – Honors POLI 3 Political Science – Honors POLI 4 Political Science – Honors POLI 5 Politics of the Mexican American POLI 5 Politics of the Mexican American POSY C1A Introduction to International Relations PSYC 1A Introduction to Psychology BIOL 15 Human Sexuality – Honors RIDL 15 Human Sexuality – Honors CHLD 10 Child Growth and Development Teth on mark and Psychology FS 41 Life Management <li< td=""><td></td><td></td><td></td><td></td><td>Psychology for Effective Living</td></li<>					Psychology for Effective Living
 * CHLD 10 Child Growth and Development * CHLD 10H Child Growth and Development – Honors SPCH 26 Interpersonal Communication SPCH 26H Interpersonal Communication – Honors POL 11 Political Science POL 11 Political Science – Honors POL 12 Political Science – Honors POL 13 Political Science – Honors POL 14 Political Science – Honors POL 15 Political Science Theory POL 15 Political Science Theory POL 15 Politics of the Mexican American POSYC 1A Introduction to Psychology PSYC 1A Introduction to Psychology PSYC 1A Introduction to Psychology PSYC 14 Introduction to Psychology PSYC 14 Introduction to Psychology PSYC 15 The Psychology of Women Area E Lifelong Understanding & Self Development (3 units) Select at least one course. AD 3 Chemical Dependency: Intervention, Treatment and Recovery BIOL 15 Human Reproduction, Development - Honors COUIN 5 Career/Life Planning FCS 41 Life Management LEAD 55 Exploring Leadership NF 10 Nutrition for Personal Health and 1. Upper division transfer students are advised to consult wit a	* HIST 44	History of Native Americans	'-	10.33	r sychology for Elective Elving
 * CHLD 10H Child Growth and Development – Honors SPCH 7 Intercultural Communication SPCH 26 Interpersonal Communication – Honors D-8: Political Science (Communication – Honors Political Science – Honors Political Science – Honors Political Science – Honors Political Science Theory POLI 9 Introduction to International Relations POLI 25 Politica Science Theory POLI 9 Introduction to International Relations POLI 35 African American Politics D-9: Psychology PSYC 1A Introduction to Psychology * PSYC 25 The Psychology GWomen Arcea E Lifelong Understanding & Self Development (3 unit) Select at least <u>one</u> course. AD 3 Chemical Dependency: Intervention, Treatment and Recovery BIOL 15 Human Reproduction, Development and Aging BIOL 15 Human Sexuality BIOL 15 Human Sexuality BIOL 15 Human Sexuality Self Development * CHLD 10 Child Growth and Development * CHLD 10H Child Growth	D-7: Interdis	ciplinary Social or Behavioral	Not	es	
 * CHLD 10H Child Growth and Development – Honors SPCH 7 Intercultural Communication SPCH 26 Interpersonal Communication – Honors D-8: Political Science (Communication – Honors Political Science – Honors Political Science – Honors Political Science – Honors Political Science Theory POLI 9 Introduction to International Relations POLI 25 Politica Science Theory POLI 9 Introduction to International Relations POLI 35 African American Politics D-9: Psychology PSYC 1A Introduction to Psychology * PSYC 25 The Psychology GWomen Arcea E Lifelong Understanding & Self Development (3 unit) Select at least <u>one</u> course. AD 3 Chemical Dependency: Intervention, Treatment and Recovery BIOL 15 Human Reproduction, Development and Aging BIOL 15 Human Sexuality BIOL 15 Human Sexuality BIOL 15 Human Sexuality Self Development * CHLD 10 Child Growth and Development * CHLD 10H Child Growth	* CHLD 10	Child Growth and Development	1.	Upper	division transfer students (60-70 semester
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 D-8: Political Science, Government, and Legal Institutions POLI 1 Political Science POLI 1 Political Science – Honors POLI 2 Political Science Theory POLI 9 Introduction to International Relations POLI 25 Politics of the Mexican American POLI 35 African American Politics D-9: Psychology PSYC 1A Introduction to Psychology PSYC 1A Abnormal Psychology PSYC 1A Abnormal Psychology PSYC 25 The Psychology of Women Area E Lifelong Understanding & Self Development (3 units) Solect at least one course. AD 3 Chemical Dependency: Intervention, Treatment and Recovery BIOL 15 Human Reproduction, Development and Aging BIOL 15 Human Sexuality – Honors * CHLD 10 Child Growth and Development * LEAD 55 Exploring Leadership NF 10 Nutrition for Personal Health and 	SPCH 26			those 3	30 units, Area A (9) semester units and
 D-8: Political Science, Government, and Legal Institutions POLI 1 Political Science POLI 1 Political Science – Honors POLI 2 Political Science Theory POLI 9 Introduction to International Relations POLI 25 Politics of the Mexican American POLI 35 African American Politics D-9: Psychology PSYC 1A Introduction to Psychology PSYC 1A Abnormal Psychology PSYC 1A Abnormal Psychology PSYC 25 The Psychology of Women Area E Lifelong Understanding & Self Development (3 units) Solect at least one course. AD 3 Chemical Dependency: Intervention, Treatment and Recovery BIOL 15 Human Reproduction, Development and Aging BIOL 15 Human Sexuality – Honors * CHLD 10 Child Growth and Development * LEAD 55 Exploring Leadership NF 10 Nutrition for Personal Health and 	SPCH 26H	Interpersonal Communication – Honors			
 Legal Institutions POLI 1 Political Science POLI 1H Political Science – Honors POLI 2 Political Science – Honors POLI 3 Political Science – Honors POLI 5 Politics of the Mexican American PSYC 1A Introduction to Psychology PSYC 1A Introduction to Psychology – Honors PSYC 19 Abnormal Psychology PSYC 25 The Psychology of Women Area E Lifelong Understanding & Self Development (3 units). Select at least one course. AD 3 Chemical Dependency: Intervention, Treatment and Recovery BIOL 15 Human Sexuality BIOL 15 Human Sexuality BIOL 15 Human Sexuality – Honors * (HLD 10 Child Growth and Development * C HLD 10 Kild Growth and Develop	D-8: Political			with g	rades of "C" or better.
 POLI 1 Political Science POLI 2 Political Science – Honors POLI 2 Political Science Theory POLI 5 Political Science Theory PSYC 1A Introduction to Psychology – Honors PSYC 19 Abnormal Psychology PSYC 25 The Psychology of Women Area E Lifelong Understanding & Self Development (3 units) Select at least one course. AD 3 Chemical Dependency: Intervention, Treatment and Recovery BIOL 15 Human Reproduction, Development BIOL 15 Human Sexuality – Honors * CHLD 10 Child Growth and Development * Chemical Dependen			2.	CSULA	transfer students are advised to complete
 POLI 2 Political Science POLI 2 Political Science Theory POLI 9 Introduction to International Relations POLI 25 Politics of the Mexican American POLI 26 Politics of the Mexican American PSYC 1A Introduction to Psychology PSYC 1A Introduction to Psychology – Honors PSYC 25 The Psychology of Women Area E Lifelong Understanding & Self Development (3 units) Select at least one course. AD 3 Chemical Dependency: Intervention, Treatment and Recovery BIOL 15 Human Sexuality – Honors CHLD 10 Child Growth and Development CHLD 10 Child Growth and Development EXA 10 Life Management LEAD 55 Exploring Leadership NF 10 Nutrition for Personal Health and 	POLI 1	Political Science		ENGL 1	C or ENGL 1CH as part of the Area A
 POLI 5 Political Science Theory POLI 9 Introduction to International Relations POLI 25 Politics of the Mexican American POLI 35 African American Politics D-9: Psychology PSYC 1A Introduction to Psychology PSYC 19 Abnormal Psychology PSYC 25 The Psychology of Women Area E Lifelong Understanding & Self Development (3 units) Select at least <u>one</u> course. AD 3 Chemical Dependency: Intervention, Treatment and Recovery BIOL 5 Contemporary Health Issues BIOL 13 Human Reproduction, Development and Aging BIOL 15 Human Sexuality – Honors * CHLD 10 Child Growth and Development * CHLD 10 H Child Growth and Development * CLUS 5 Exploring Leadership NF 10 Nutrition for Personal Health and 	POLI 1H	Political Science – Honors		require	ments. CSULA requires completion of ENGL
 POLI 9 Introduction to International Relations POLI 25 Politics of the Mexican American POLI 35 African American Politics D-9: Psychology PSYC 1A Introduction to Psychology PSYC 1AH Introduction to Psychology PSYC 19 Abnormal Psychology * PSYC 25 The Psychology of Women Area E Lifelong Understanding & Self Development (3 units) Select at least <u>one</u> course. AD 3 Chemical Dependency: Intervention, Treatment and Recovery BIOL 5 Contemporary Health Issues BIOL 13 Human Sexuality BIOL 15 Human Sexuality Honors * CHLD 10H Child Growth and Development * CHLD 10H Child Growth and Development * CHLD 10H Child Growth and Development * FA Y 10 Nutrition for Personal Health and 	POLI 2	Political Science		102 (El	NGL 1C or 1CH) as a prerequisite to UNIV 40
 POLI 25 Politics of the Mexican American POLI 35 African American Politics D-9: Psychology PSYC 1A Introduction to Psychology PSYC 1A Introduction to Psychology PSYC 19 Abnormal Psychology * PSYC 25 The Psychology of Women Area E Lifelong Understanding & Self Development (3 units) Select at least <u>one</u> course. AD 3 Chemical Dependency: Intervention, Treatment and Recovery BIOL 15 Contemporary Health Issues BIOL 15 Human Sexuality BIOL 15 Human Sexua	POLI 5	Political Science Theory		(Writin	g Proficiency Examination).
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THE UNIVERSITY OF CALIFORNIA

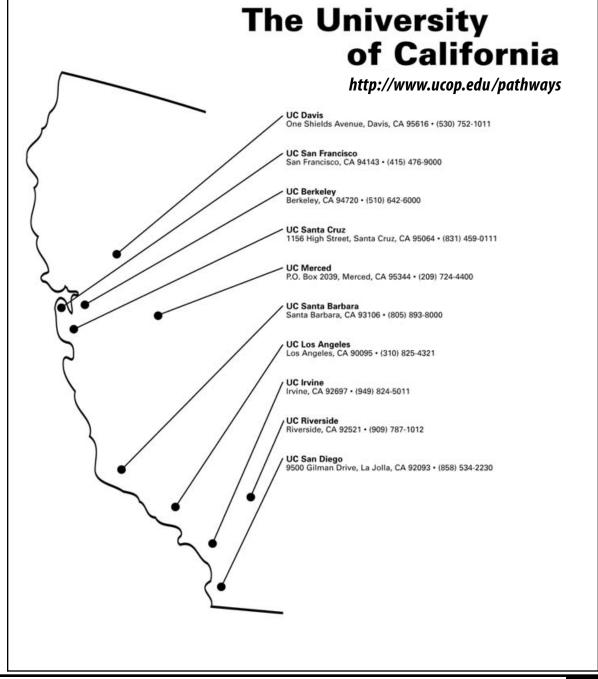
UC Minimum Admission Requirements

There are several ways to meet the University's minimum admission requirements for transfer students, as described below. The path you use depends on the degree to which you satisfied UC's minimum eligibility requirements for freshmen, at the time you graduated from high school. In all cases, you must have at least a "C" (2.0) grade point average in all transferable coursework. If you need assistance in determining whether you met the requirements, contact an educational advisor in the Advising Center or a counselor in the Counseling Center.

Minimum Admission Requirements for California Residents Transferring to UC

- If you were eligible for admission to the University when you graduated from high school – meaning you satisfied the Subject, Scholarship, and Examination Requirements, or were identified by the University during your senior year in high school as eligible under the Eligibility in the Local Context (ELC) program – you are eligible to transfer if you have a "C" (2.0) average in your transferable coursework.
- If you met the Scholarship Requirement in high school but did not satisfy the Subject Requirement, you must take transferable college courses in the missing subjects, earning a "C" or better in each required course, and have an overall "C" average in all transferable coursework to be eligible to transfer.
- If you were not eligible for admission to the University when you graduated from high school because you did not meet the Scholarship Requirement, you must:
 - A. Complete 60 semester units (or 90 quarter units) of transferable college credit with a grade point average of at least 2.4; <u>and</u>
 - B. Complete the following course pattern requirement, earning a grade of "C" or better in each course:
 - two transferable college courses (3 semester or 4-5 quarter units each) in English composition; <u>and</u>
 - one transferable college course (3 semester or 4-5 quarter units) in mathematical concepts and quantitative reasoning; <u>and</u>
 - four transferable college courses (3 semester or 4-5 quarter units each) chosen from at least two of the following subject areas: the arts and humanities, the social and behavioral sciences, and the physical and biological sciences.

Students who satisfy the Intersegmental General Education Transfer Curriculum [IGETC] prior to transferring to UC may satisfy Option 3B of the transfer admission requirements.



INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC) 2007-08

The requirements listed below are for the 2007-2008 academic year and are based upon information available at the time of catalog publication. Students may contact the Advising Center for most current information at (909) 594-5611, ext. 4293.

Completion of the IGETC will permit a student to transfer from Mt. SAC to a campus in either the University of California (UC) system or California State University (CSU) without the need, after transfer, to take additional lower-division general education courses to satisfy university general education requirements. It should be noted that completion of the IGETC is not an admission requirement for transfer to UC or CSU, nor is it the only way to fulfill the lower-division general education requirements of UC or CSU prior to transfer. Students pursuing majors that require extensive lower-division preparation may not find the IGETC option to be advantageous (*i.e.* Engineering, Sciences).

The requirements listed below must be completed in their entirety for full certification to the UC and CSU. For students who have completed coursework at multiple campuses, the campus of last attendance prior to transfer to

UC or CSU will certify the coursework. Mt. SAC will certify coursework from other campuses according to the IGETC list of the originating campus. Students with Advanced Placement exams which are recognized as equivalent to Mt. SAC courses listed below will obtain credit for IGETC. A minimum grade of "C" is required in each course. (A grade of "C-" is not acceptable.)

Students beginning Fall 2007 must follow 2007-2008 IGETC requirements. Courses are approved for the academic year in which they were completed. Students may obtain a copy from the Advising Center or Counseling Center.

Area 1 English Communication Select <u>one</u> course from each group: Group A: English Composition ENGL 1A Freshman Composition, <u>or</u> ENGL 1AH Freshman Composition – Honors Group B: Critical Thinking – Composition ENGL 1C Critical Thinking and Writing, <u>or</u> ENGL 1CH Critical Thinking and Writing – Honors PHL 9 Critical Thinking and Logical Writing Group C: Oral Communication CSU requirements only SPCH 1A Public Speaking, <u>or</u> SPCH 1AH Public Speaking – Honors Area 2 Mathematical Concepts and Quantitative Reasoning Select <u>one</u> course from: MATH 110 MATH 110 Elementary Statistics MATH 110 Finite Mathematics MATH 120 Finite Mathematics MATH 130 College Algebra MATH 140 Calculus for Business	Area 3Arts and HumanitiesSelect three courses minimum, at least one course fromthe Arts group and one course from the Humanities groupArts Courses:AHIS 1Understanding the Visual Arts, orARTB 1Understanding the Visual ArtsAHIS 1Understanding the Visual ArtsAHIS 3History of Women and Gender in ArtAHIS 3HHistory of Women and Gender in Art - HonorsAHIS 4History of Western Art: Prehistoric through GothicAHIS 4HHistory of Western Art: Prehistoric through Gothic - HonorsAHIS 5History of Western Art: Renaissance through ModernAHIS 5HHistory of Western Art: Renaissance through ModernAHIS 6History of Modern ArtAHIS 6HHistory of African, Oceanic, and Native	CHIN 4Continuing Intermediate ChineseENGL 1BEnglish – Introduction to Literary TypesENGL 1BHEnglish – Introduction to Literary Types – HonorsFRCH 3Intermediate FrenchFRCH 4Continuing Intermediate FrenchFRCH 5Advanced FrenchFRCH 6Continuing Advanced FrenchFRCH 60French Culture through CinemaGERM 3Intermediate German* HIST 1History of the United StatesHIST 3History of World CivilizationHIST 4History of World CivilizationHIST 4History of World CivilizationHIST 7History of the United States* HIST 7HHistory of the United States – Honors	ITAL 6Continuing Advanced ItalianITAL 60Italian Culture through CinemaJAPN 3Intermediate JapaneseJAPN 4Continuing Intermediate JapaneseJAPN 5Advanced JapaneseLIT 1Early American LiteratureLIT 2Modern American LiteratureLIT 6ASurvey of English LiteratureLIT 10Survey of ShakespeareLIT 111AWorld LiteratureLIT 14Introduction to Modern PoetryLIT 15Introduction to CinemaLIT 20African American LiteratureLIT 23Images of Women in LiteratureLIT 34Images of Women in LiteratureLIT 35Science Fiction and Fantasy SurveyLIT 36Introduction to MythologyLIT 37The Bible as Literature:LIT 37The Bible as Literature:
SPCH 1A Public Speaking, <u>or</u> SPCH 1AH Public Speaking – Honors Area 2 Mathematical Concepts and Quantitative Reasoning Select <u>one</u> course from: MATH 110 KATH 110 Elementary Statistics MATH 110H Elementary Statistics – Honors MATH 120 Finite Mathematics MATH 130 College Algebra	through Gothic AHIS 4H History of Western Art: Prehistoric through Gothic — Honors AHIS 5 History of Western Art: Renaissance through Modern AHIS 5H History of Western Art: Renaissance through Modern — Honors AHIS 6 History of Modern Art AHIS 6H History of Modern Art — Honors	FRCH 60French Culture through CinemaGERM 3Intermediate German* HIST 1History of the United StatesHIST 3History of World CivilizationHIST 3HHistory of World Civilization – HonorsHIST 4History of World CivilizationHIST 4HHistory of World CivilizationHIST 7HHistory of World CivilizationHIST 7HHistory of World Civilization	LIT 15Introduction to CinemaLIT 20African American LiteratureLIT 25Contemporary Mexican AmericanLiteratureLiteratureLIT 33Images of Women in LiteratureLIT 35Science Fiction and Fantasy SurveyLIT 36Introduction to Mythology

INTERSEGMENTAL GENERAL EDUCATIO	N TRANSFER CURRICULUM (IGETC) 2007-08
Arcs 4 Arcs 4 Social and Behavioral Sciences Arch 4 Select three courses total from a minimum of two different subject areas: ARTH 3 ArtH 3 Archaeology BUS 18 Principles of Economics: Microeconomics BUS 18 Principles of Economics: Microeconomics GEO 21 Human Geography - Honors GEO 30 Geography 1 Galoratina POU1 1 Political Science - Honors	UC REQUIREMENT ONLY Language other than English: The minimum proficiency required is met by completing one of the courses listed below or by completion of two years of high school study in the same language. CHIN 1 Elementary Chinese JAPN 1 Elementary Japanese FRCH 1 Elementary French SIGN 101 American Sign Language 1 GERM 1 Elementary German SPAN 1 Elementary Spanish ITAL 1 Elementary Italian SPAN 11 Spanish for the Spanish Speaking CSU GRADUATION REQUIREMENTS ONLY IN U.S. HISTORY, CONSTITUTION, AND AMERICAN IDEALS: Note: Courses used to meet the U.S. History and American Institutions requirements cannot be double counted for IGETC. UCSB requires a college-level U.S. history or government course. Option 1: HIST 7 (or TH) + HIST 8 (or 8H) If Option #1 is selected, D0 NOT select another D6 course as your third Area D course. <i>ar</i> Option 2: Completion of one course from U.S. History plus one course from American Institutions. <i>See the categories below under United States</i> History and American Institutions. <i>See the categories below under United States</i> History of the United States HIST 7 History of the United States HIST 8H History of the United States HIST 90 History of the United States HIST 8H History of the United States HIST 90 History of the African American HIST 36 Women in American American HIST 36 Notes: UC limits transfer credit for some courselor in the Student Services Center. Students from

IGETC AFTER TRANSFER PARTIAL CERTIFICATION OF THE INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC)

The IGETC provides a pattern of courses that fulfills the transfer general education requirements at both the University of California (UC) and the California State University (CSU). Each California community college offers a complete set of courses that satisfies IGETC. If you attend more than one community college, the campus you attend just prior to transfer will certify your completion of IGETC, including courses taken at other colleges. The IGETC pattern is not recommended for all majors. See your counselor/educational advisor for advice and more complete information on the IGETC certification.

If, for **good cause**, you are unable to complete one or two IGETC courses*, you may be **eligible to complete IGETC after transferring (*)**. Typical situations which constitute good cause for not completing one or two IGETC courses are illness, unavailable or canceled classes, military service and unexpected hardships, such as family or employment problems, **experienced in the final term before transfer**.

You may petition only during the final semester before transferring. If your petition for partial certification of IGETC is approved, you will be able to complete IGETC in one of the following ways:

- 1. Take a certified IGETC course, in the area to be completed, at any California community college at a time that does not require concurrent enrollment, such as during summer session.
- Complete the requirement at a California community college while concurrently enrolled at the UC or CSU. You will be subject to the UC or CSU campus rules regarding concurrent enrollment, so this option may not be available at your campus.
- Take a comparable course at the UC or CSU campus to which you will be transferring. This option is at the discretion of each campus, so it may not be a choice available to you.

You will be expected to complete IGETC before the beginning of the second full year of enrollment at your UC or CSU campus. Check with your campus counselor/educational advisor after you transfer for more information, including which options are available and which UC or CSU courses may be comparable to the IGETC courses remaining to be completed.

ATION

California's fully-accredited independent colleges and universities provide many options at the undergraduate, graduate, and professional levels for students planning to continue their education beyond the community college.

CALIFORNIA INDEPENDENT

Although admission requirements vary and are listed in the catalogs of the various universities and colleges, students who transfer to independent colleges and universities are given credit for most, if not all, of their community college work.

Financial aid may be a primary factor in making it possible for a student to attend an independent college or university. There are many forms of financial assistance available, such as federal, state, institutional, and private aid. Students should apply for scholarships, grants, loans, and work-study awards from all possible sources. All independent colleges urge, and some require, that all undergraduates who are California residents apply for a Cal Grant. Financial aid applications are available in January for the following academic year and may be obtained from a campus financial aid office. Filing instructions and deadlines are indicated on the form. Contact the individual campuses for details and assistance in completing the necessary forms.

The independent colleges and universities include:

- Alliant International University
- American Academy of Dramatic Arts Los Angeles
- Art Center College of Design
- Azusa Pacific University
- Biola University
- California Baptist University
- California College of the Arts
- California Institute of Technology (Cal Tech)
- California Institute of the Arts
- California Lutheran University
 Chapman University
- Charles R. Drew University of Medicine and Science
- Claremont Graduate University
- Claremont McKenna College
- Cogswell Polytechnical College
- Concordia University
- DeVRY Institute of Technology
- Dominican University of California
- Fielding Graduate University
- Fresno Pacific University
- Golden Gate University
- Harvey Mudd College
- Holy Names College
- Hope International University
- Humphreys College
- John F. Kennedy University
- Keck Graduate Institute
- La Sierra University

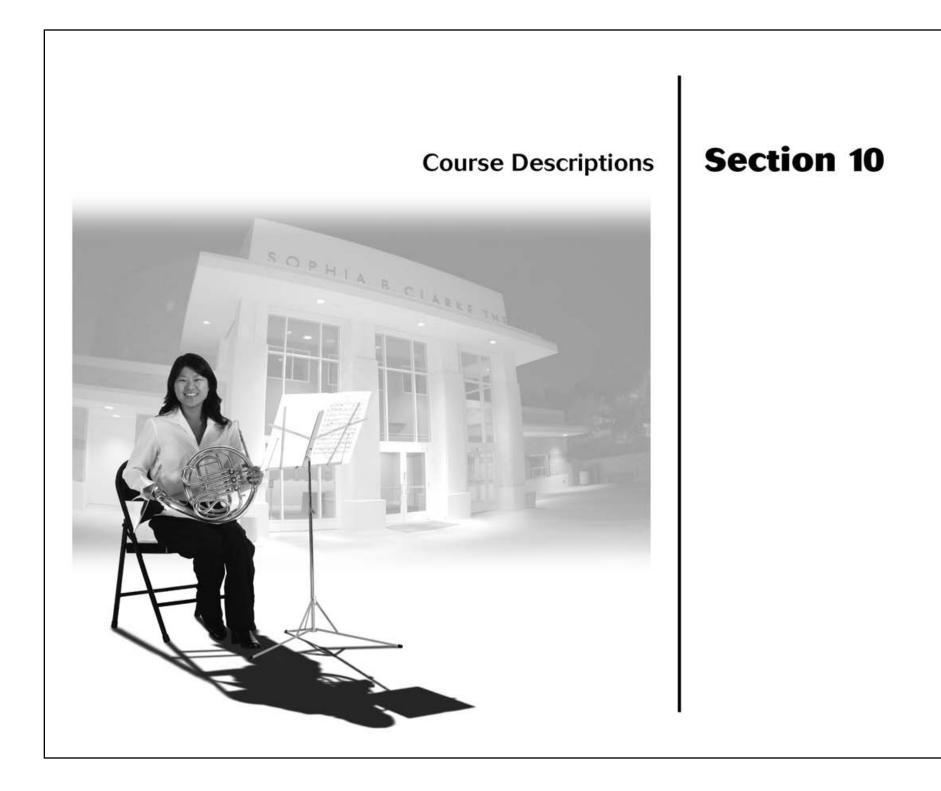
- Laguna College of Art and Design
- Loma Linda University
- Loyola Marymount University
- Marymount College
- The Master's College
- Menlo College
- Mills College
- Mount St. Mary's College
- National University
- New College of California
- Notre Dame de Namur University
- Occidental College
- Otis College of Art and Design
- Pacific Graduate School of Psychology
- Pacific Oaks College
- Pacific Union College
- Patten College
- Pepperdine University
- Phillips Graduate Institute
- Pitzer College
- Point Loma Nazarene University
- Pomona College
- Saint Mary's College of California
- Samuel Merritt College
- San Diego Christian College
- San Francisco Art Institute
- San Francisco Conservatory of Music
- Santa Clara University
- Saybrook Graduate School and Research Center
- Scripps College
- Simpson College
- Southern California College of Optometry
- Southern California University of Health Sciences
- Stanford University
- Thomas Aquinas College
- Touro University California
- University of Judaism
- University of La Verne
- University of Redlands
- University of San Diego
- University of San Francisco
- University of Southern California
- University of the Pacific
- University of West Los Angeles
- Vanguard University of Southern California
- Western University of Health Sciences
- Westmont College
- Whittier College
- William Jessup University
- Woodbury University

For more information on California Independent Colleges and Universities see an educational advisor in the Advising Center or counselor in the Counseling Department. You may also obtain information from the aiccu.edu.

* Area 1, English Communication and Area 2, Mathematics must be completed prior

to transferring. To petition for IGETC after transfer see an educational advisor in the

Advising Center or a counselor in the Counseling Department.



DEFINITIONS OF TERMS

CSU Transfer

Courses designated "CSU" are baccalaureate level and will transfer to all of the California State Universities and count toward graduation at Mt. San Antonio College.

CSU/UC Cross Enrollment Program

California residents students at Mt. San Antonio College may enroll in one undergraduate course per term at any CSU or UC campus provided the student has met the course prerequisites and approval is granted by both Mt. SAC and the university. To cross-enroll, students must: have completed at least one term at Mt. SAC; have a 2.0 grade point average (GPA) in transferable course work; and be enrolled in at least six units at Mt. SAC. A \$10.00 fee plus any material/laboratory fees associated with the course may be charged. To apply for the CSU/UC Cross Enrollment Program, students must complete the CSU/UC Cross Enrollment application; these forms are available in the Advising Center.

UC Transfer/UC Credit Limitation

Courses designated "UC" are baccalaureate level and will transfer to all of the University of California campuses and California State Universities, and will count toward graduation at Mt. San Antonio College. UC limits credit for some courses. Students contemplating transfer to UC should consult with an educational advisor and review the UC Transfer Course Agreement (TCA) for course credit limitations and changes.

UC Credit for Physical Education Activity Courses

A maximum of four semester units of UC credit will be awarded for Physical Education Activity courses. Courses of a vocational nature such as Fire or Police Academy Protection Preparation or Aerobic Instructor Training will not be awarded UC credit.

UC Credit Pending

Credit for Special Projects courses are given only after a review of the topic for the course by the enrolling UC campus. This usually occurs after transfer and may include recommendations from faculty. The UC will not give credit for special projects courses in Journalism, Photography, Health, Business Administration, Architecture, Administration of Justice (Criminology) or Library Departments because of the credit restrictions in those areas.

CAN (California Articulation Number System)

The California Articulation Number (CAN) System is a statewide numbering system of independent twin course numbers assigned by local colleges. A CAN number signals that participating California colleges and universities have determined that courses offered by other campuses are equivalent in content and scope to courses offered on their own campuses, regardless of their unique titles or local identifying numbers. Thus, if a schedule of classes or catalog lists a course bearing a CAN number, students on one campus can be assured that it will be accepted in lieu of the comparable CAN course noted in the catalog or schedule of classes of another campus. For example, CAN ECON 2 on one campus will be accepted as meeting the requirement of the designated CAN ECON 2 course on other participating community college or university campuses.

The CAN numbering system is obviously useful for students attending more than one community college and is applied to many of the transferable, lower division courses students need as preparation for their intended major. Because these course requirements may change, however, and because courses are continually being redefined, qualified, or deleted from the CAN database, students should always check with an educational advisor in The Advising Center or counselor in the Counseling Department to determine how CAN-designated courses fit into their educational plans for transfer. Students should consult the ASSIST database at **www.assist.org** for specific information on course agreements. The college staff will help students interpret this information.

Eligibility

In listing a prerequisite for enrolling in a course, an "eligibility" may also be listed. An eligibility requirement specifies the course level the student must qualify to enroll in-not that the course has to be completed prior to enrollment. For example, the prerequisite "eligibility for English 68" requires that the student must qualify to enroll in English 68 in order to enroll in the particular course.

Prerequisite

A prerequisite is a course which must be taken as preparation for enrolling in another course.

Corequisite

A corequisite is a course which is required to be taken simultaneously in order to enroll in another course.

Advisory

An advisory prerequisite is a course which is advised, but not required, to be taken either before or in conjunction with enrollment in a course.

Pre-Collegiate Basic Skills

Courses designated "Pre-collegiate" develop basic skills in reading, writing, and computation. They will neither count toward graduation from Mt. San Antonio College nor transfer to four-year colleges and universities.

Non-Degree Credit

Courses designated "Non-Degree Credit" are college level classes which are neither a part of an associate degree or certificate program nor transferable to four-year colleges and universities.

Degree Appropriate

Courses designated "Degree Appropriate" are college-level classes which are a part of an associate degree or certificate program.

Physical Education Activity

Physical education activity units consist of a combination of lecture and activity hours. This includes all PE classes except those having a prefix of PE.

UC Credit for Physical Education Activity Courses

A maximum of four semester units of UC credit will be awarded for Physical Education activity courses. Courses of a vocational nature such as Fire or Police Academy Protection Preparation or Aerobic Instructor Training will not be awarded UC credit.

COURSE PREFIX LISTING

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PLGL	Business: Once recimology	НИМА	Humanities		STDY	Study Techniques	
BUSR	Business: Real Estate	INSP	Inspection & Estimating, Building		SURV	Surveying	
BUSS	Business: Sales, Merchandising & Marketing	ID	Interior Design		TECH	Technology & Related Courses	
CHMT	Chemical Technology	ITAL	Italian		THTR	Theater Arts	
CHEM	Chemistry	JAPN	Japanese		TRAN	Transportation	
CHLD	Child Development	JOUR	Journalism		TUTR	Tutor Training	
CHIN	Chinese	LATN	Latin		WATR	Water Technology	
CNET	Computer & Networking Technology	LEAD	Leadership			Welding	
COMP	Computer Applications	LEAD	Learning Assistance Services			weiunig	200
	1 11		5				
GRAP	Computer Graphics 140	LIBR	Library & Instructional Media	1/2			
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ADMINISTRATION OF JUSTICE: LAW ENFORCEMENT ADJU 1 — The Administration of Justice System 3 Units (CAN AJ 2) Degree Appropriate, CSU, UC 54 hours lecture. History and philosophy of the justice system, subsystems, roles,	ADJU 38 — Narcotics Investigation3 Units54 hours lecture.Degree AppropriatePrerequisite: Eligibility for ENGL 68Investigation techniques for drug enforcement. Drug effects, use ofinformants, amendment issues, and handling of evidence.	AERO 26 — Aviation Weather3 Units54 hours lecture.Degree Appropriate, CSUA basic study of weather elements, the atmosphere, weather mechanics, weather disturbances, weather analysis and forecasts. Evaluates aviation weather reports and forecasts.	
relationships and theories of crime causation and correction. ADJU 2 — Principles and Procedures of the Justice System 3 Units 54 hours lecture. Degree Appropriate, CSU Roles and responsibilities of each segment of the justice system; additional focus on relationships between system segments and sub- system procedures from initial incident to final disposition.	ADJU 59 — Gangs in the Community/Corrections3 Units54 hours lecture.Degree Appropriate, CSUAdvisory: Eligibility for ENGL 68, ADJU 1Exploration of contemporary street and prison gang issues, includinghistorical and current perspectives, prison gang dynamics, identificationof characteristics, cultural differences of gang philosophy. Includes lawenforcement/corrections role in intervention/suppression.	AERO 27 — Aviation Safety and Human Factors3 Units54 hours lecture.Degree Appropriate, CSUAdvisory: AERO 23Evaluation and analysis of factors which lead to aircraft accidents.Includes the study of aircraft accident cause factors, with emphasis on human behavior as it relates to the environment of the pilot and air traffic controller.	
ADJU 3 — Concepts of Criminal Law 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Provides an overview of California criminal law from the perspective of the law enforcement officer.	ADJU 68 — Administration of Justice Report Writing 3 Units 54 hours lecture. Degree Appropriate Techniques for proper documentation of crime reports and related law enforcement records. Use of simulations and role-playing.	AERO 28 — Aircraft and Engines3 Units54 hours lecture.Degree Appropriate, CSUAdvisory: AERO 23Aircraft design, subsystems, repair and maintenance. Principles of internal	
ADJU 4 — Legal Aspects of Evidence 3 Units 54 hours lecture. Degree Appropriate, CSU Introduction to criminal evidence, including admissibility, witness competency, privileged communication, hearsay, and collection and	ADJU 74 — Vice Control 3 Units 54 hours lecture. Degree Appropriate Prerequisite: Eligibility for ENGL 68	combustion engines, fuel system, engine construction and design, lubrication and cooling methods, ignition system, basic troubleshooting. Turbine engine basic design and operational characteristics.	
preservation of evidence. ADJU 5 — Community Relations 54 hours lecture. Prerequisite: Eligibility for English 68 Building State	Code and case law dealing with vice; detection and suppression; apprehension and prosecution of violators; special consideration of laws dealing with gambling, prostitution, and sex crimes. AERONAUTICS	AERO 29 — Federal Aviation Regulations2 Units36 hours lecture.Degree Appropriate, CSUFederal Aviation Regulations that pertain to pilot certification, aircraft maintenance, general operating rules; air traffic control practices and procedures; reporting of aircraft accidents.	
Community problems and policing. Focus on service image, diversity, human relations, crises and confrontations with the public. ADJU 6 — Concepts of Enforcement Services 3 Units 54 hours lecture. Degree Appropriate Responsibilities, techniques and methods of police patrol with emphasis on the basic knowledge required in handling common police occurrences.	AERO 23 — Primary Pilot Ground School 4 Units 72 hours lecture. Degree Appropriate, CSU Basic aerodynamics, aircraft performance, Federal Aviation Regulations, aviation weather factors, and cross-country navigation procedures; provides introductory material on radio navigation, aeromedical factors, and radio communications procedures. Meets the preparation require- ments for the FAA Private Pilot computerized knowledge examination.	AERO 30 — Instrument Ground School3 Units54 hours lecture.Degree Appropriate, CSUAdvisory: AERO 23 and AERO 26Instrument Flight Rules, Air Traffic Control communications and procedures, air navigation radio aids, instrument landing systems, flight instruments, aircraft performance, aeronautical publications, instrument	
ADJU 13 — Concepts of Traffic Services3 Units54 hours lecture.Degree AppropriateA study of traffic management, collision reconstruction, collision factorsincluding law violations and human factors, collision evidence, trafficenforcement techniques and specialization in traffic management.Emphasis is placed on service to the motoring public.ADJU 20 — Principles of Investigation3 Units	AERO 24 — Navigation 3 Units 54 hours lecture. Degree Appropriate, CSU Advisory: AERO 23 Advanced dead reckoning navigation procedures. Aeronautical computers and their application in cross-country flying. Use of radio navigation aids, flight planning, flight directors, global positioning system, and electronic flight instrumentation systems.	approach procedures, IFR cross-country navigation, and instrument weather. Meets the preparation requirements for the FAA Instrument Pilot computerized knowledge exam. AERO 40 — Flight 1 Unit (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.) 18 hours lecture.	
Spring Semester Degree Appropriate, CSU 54 hours lecture. <i>Prerequisite: Eligibility for ENGL 68</i> Fundamentals of investigation; 4th Amendment issues including crime scene search and recording; collection and preservation of physical evidence; modus operandi; scientific aids; sources of information; interviews and interrogation; follow up and case preparation.	AERO 25 — Commercial Pilot Ground School3 Units54 hours lecture.Degree Appropriate, CSUAdvisory: AERO 23Bear and the analysis of the analysis o	Advisory: AERO 23 taken prior or concurrently Flight training career preparation, including evaluation of locally available flight training options and flight career opportunities including corporate aviation, charter operations, cargo airline careers, and military flight training. Students who repeat this course will improve skills through further instruction and practice.	

AERO 40L — Flight Laboratory1 Unit(May be taken four times for credit.)Degree Appropriate(May be taken for Credit/No Credit only.)54 hours lab.54 hours lab.Corequisite: AERO 40Advisory: AERO 23 taken prior or concurrentlyPrimary pilot training and the development of specialized skills.Students individually schedule training lessons at a flight school of theirchoice, under the supervision of an FAA certificated flight instructor.Students must complete a minimum of 15 hours of flight time,including three hours of dual instruction. Students who repeat thiscourse will improve skills through further instruction and practice.	AGRICULTURE: AGRI-BUSINESS AGAB 20 — Microcomputer Applications in Agriculture 3 Units (CAN AG 2) Degree Appropriate, CSU, UC 54 hours lecture. Advisory: Eligibility for ENGL 68 Use of word processing, data base, spreadsheets, and graphic programs for students interested in agricultural business, nursery and landscape, equipment, and farm management. AGRICULTURE: ANIMAL HEALTH TECHNOLOGY AGHE 54 — Veterinary Office Procedures 3 Units	AGHE 64 — Veterinary Pharmacology 3 Units 54 hours lecture. Degree Appropriate, CSU Prerequisite: Formal admittance to Advanced Class Status in the Registered Veterinary Technology Program, and completion of MATH 51 or MATH 51B or AGAG91 Basic concepts in pharmacological chemistry. Pharmaceuticals and biologics commonly used in the maintenance of animal health. Includes generic terminology, abbreviations for prescriptions, labeling requirements, state and federal laws, classification of materials, weights and the metric system, side effects and drug interactions.
AERO 41 — Basic Flight Simulator Laboratory (May be taken for Credit/No Credit only.).5 Unit Degree Appropriate27 hours lab. Advisory: AERO 25.5Flight simulator training in the iGATE PC-ATD simulator in preparation for the instrument rating. Full and partial panel airwork, holding patterns, VOR and ADF orientation, and instrument approach procedures.	54 hours lecture. Degree Appropriate Includes veterinary hospital records, client relations, medical terminology, filing of governmental reports, legal responsibilities of animal health technicians and application of veterinary medical ethics. AGHE 60 — Medical Nursing and Animal Care 4 Units 54 hours lecture. Degree Appropriate, CSU 54 hours lab. Prerequisite: AGLI 95 and formal admittance to the Registered Veterinary Technology program 4	AGHE 65 — Veterinary Radiography 2 Units 18 hours lecture. Degree Appropriate, CSU 54 hours lab. Prerequisite: AGLI 95 and formal admittance to the Registered Veterinary Technology Program Basic concepts and skills of veterinary positioning of canine, feline, avian, reptilian species, and livestock for radiography; processing of the radiograph; radiation safety; basic technique and instrumentation; contrast radiography and ultrasound imaging. Emphasizes performance of x-ray procedures for the veterinary practitioner.
AERO 42 — Advanced Flight Simulator Laboratory .5 Unit (May be taken for Credit/No Credit only.) Degree Appropriate 27 hours lab. Advisory: AERO 30 or AERO 41 Flight simulator training in the ATC-810 simulator in preparation for the multi-engine rating and advanced instrument flight. Emergency	Animal examination for health and disease conditions in the animal hospital, including sanitation, administration of medicine, emergency treatment, therapeutic techniques, dental prophylaxis, venipuncture, electrocardiology, application of casts, splints and other appliances. Includes diseases, their causes and effects, and immunology of animals.	AGHE 79 — Laboratory Animal Medicine and Care 3 Units 36 hours lecture. Degree Appropriate, CSU 54 hours lab. Laboratory animal medicine, care and procedures, rules and regulations governing laboratory animals.
procedures for multi-engine aircraft and high performance airplanes. AERO 45A — Multi-Engine Turbine Aircraft Operations 3 Units 54 hours lecture. Non-Degree Credit <i>Advisory: Private Pilot's Certificate and AERO 30 or Instrument Rating</i> An introduction to the design features and operational characteristics of a selected multi-engine turbine aircraft utilized in regional airline operations and corporate aviation, with emphasis on aircraft and engine systems.	AGHE 61 — Surgical Nursing4 Units54 hours lecture.Degree Appropriate, CSU54 hours lab.Prerequisite: AGHE 60Surgical preparation, surgical assistance, post-operative care, administration and monitor anesthesia, dentistry, CPR, sterilization and the maintenance of a sterile environment.	AGHE 83A — Work Experience in Animal Health (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.) 75 hours lab. Prerequisite: Formal admittance and enrollment in the Registered Veterinary Technology Program. Compliance with Work Experience regulations as designated in the College Catalog
AERO 58 — Flight Instructor Ground School 3 Units 54 hours lecture. Non-Degree Credit Advisory: AERO 25 and AERO 30 or Commercial Pilot Certificate with Instrument Rating The learning process, basic teaching principles, and the application of these principles in teaching student pilots. Analysis of flight maneuvers and instruments. Prepares students for the FAA computerized State	AGHE 62A — Clinical Pathology4 UnitsFall SemesterDegree Appropriate, CSU54 hours lecture.5454 hours lab.Prerequisite: AGLI 95Introduces students to the expansive field of clinical pathology. Topicsinclude hematology, clinical chemistries, internal parasites, immunologyand serology.	This course is designed to provide majors with actual on-the-job experience in an approved work station which is related to classroom instruction. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice.
knowledge tests for Flight Instructors.	AGHE 62B — Clinical Pathology 4 Units Spring Semester Degree Appropriate, CSU 54 hours lecture. 54 hours lab. <i>Prerequisite: AGLI 95</i> Introduces students to the expansive field of clinical pathology. Topics include bacteriology, clinical chemistry, urinalysis, external parasites and cytology.	AGHE 83B — Work Experience in Animal Health2 Units(May be taken four times for credit.)Degree Appropriate(May be taken for Credit/No Credit only.)150 hours lab.150 hours lab.Prerequisite: Formal admittance and enrollment in the Registered Veterinary Technology Program. Compliance with Work Experience regulations as designated in the College CatalogThis course is designed to provide majors with actual on-the-job experience in an approved work station which is related to classroom

course bescriptions		
skills through further instruction and practice.	AGAN 51 — Animal Handling and Restraint 36 hours lecture.3 Units Degree Appropriate, CSU 54 hours lab.Methods of proper handling for large and small animals, including chemical and physical techniques of restraint.	This course is designed to provide majors with actual on-the-job experience in an approved work station which is related to classroom instruction. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Students who repeat this course will improve
54 hours lab. Fall field study course in the collection, handling, and analysis of feces, wring and blood complex of pet and demostic animals. Practical	AGAN 94 — Animal Breeding3 Units54 hours lecture.Degree AppropriateThe science of animal breeding, including fundamentals of inheritance, reproduction and breeding systems for domestic animals. Artificial insemination, embryo manipulation and current topics in reproductive biotechnology will also be included.AGRICULTURE: FORESTRY, CONSERVATIONAGFR 20 — Conservation of Natural Resources3 Units	skills through further instruction and practice. AGAG 61 — Work Experience in Agriculture (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.) 225 hours lab. Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog This course is designated to provide majors with actual on-the-job
Spring Semester Degree Appropriate 54 hours lab. Spring field study course in the collection, handling and analysis of feces, urine and blood samples of pet and domestic animals. Practical experience in applied clinical procedure and techniques, including	AGFR 20 — Conservation of Natural Resources3 Units54 hours lecture.Degree Appropriate, CSU, UCPrerequisite: Eligibility for ENGL 68.Concepts of conservation biology for natural resources, includingbiogeography, biodiversity and extinction, environmental law, and conservation organizations. Emphasis on temperate forest, tropicalforest, desert, and grassland ecosystems.	experience in an approved work station which is related to classroom instruction. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice.
treatments and minor surgical procedures with school domestic farm animals. Experiences with animals will vary due to seasonal changes and different husbandry practices during fall and spring. AGHE 85 — Seminar in Registered Veterinary Technology 1 Unit 18 hours lecture. Degree Appropriate Prerequisite: Completion of the Registered Veterinary Technology program	AGRICULTURE: GENERAL SUBJECTS AGAG 1 — Food Production, Land Use and Politics – 3 Units A Global Perspective 54 hours lecture. Degree Appropriate, CSU, UC Surveys the world's food producing systems in terms of economic,	AGAG 62 — Work Experience in Agriculture (May be taken four times for credit.) 4 Unit (May be taken for Credit/No Credit only.) 300 hours lab. Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog 4 Unit
or consent of instructor.	political and cultural forces. Emphasizes ethical, sustainable food producing agriculture. AGAG 59 — Work Experience in Agriculture (May be taken for Credit/No Credit only.) 75 hours lab.	This course is designed to provide majors with actual on-the-job experience in an approved work station which is related to classroom instruction. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice.
(CAN AG 6) Degree Appropriate, CSU, UC 54 hours lecture. Fundamental problems and essential concepts of animal production. Includes the study of the types of domestic animals and their utilization by humans.	 Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog This course is designed to provide majors with actual on-the-job experience in an approved work station which is related to classroom instruction. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice. 	AGAG 91 — Agricultural Calculations3 Unit54 hours lecture.Degree AppropriatePrerequisite: Eligibility for MATH 51Calculating the proper rates of application of veterinary drugs, fertilizers, irrigation water, farm chemicals and pesticidal materials.Practical field work in calibrating application equipment, plotting production rates and feed conversion, determining proper concentrations and dilutions and standardizing butterfat and
54 hours lecture. Composition of feeds and their utilization by domestic animals, including digestive physiology, animal assessment, feed appraisal and	AGAG 60 — Work Experience in Agriculture (May be taken four times for credit.) 2 Units (May be taken for Credit/No Credit only.) 150 hours lab. Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog 150 hours lab.	solids non-fat.

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AGAG 99 — Special Projects in Agriculture (May be taken four times for credit.)2 Units Degree Appropriate, CSU (May be taken for Credit/No Credit only.)36 hours lecture. In order to offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time-to-time offer Special Desider of the protection o	AGLI 18 — Horse Ranch Management4 Units54 hours lecture.Degree Appropriate, CSU54 hours lab.Advisory: AGLI 16Skills and knowledge to work on or manage a modern equine ranch, including management of the breeding farm, farm lay out, estrus cycles, breeding problems and stallion care.	AGLI 97 — Artificial Insemination of Livestock2 UnitsSpring SemesterDegree Appropriate18 hours lecture.5454 hours lab.Theory and application of artificial insemination of domesticanimals,including semen evaluation and processing, heatsynchronization, and pregnancy diagnosis.
Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced.	AGLI 19 — Horse Hoof Care2 Units18 hours lecture.Degree Appropriate, CSU54 hours lab.Emphasizes proper horse hoof care; shoeing, trimming and diseaserecognition and control.Emphasizes proper horse hoof care; shoeing, trimming and disease	AGL1 98 — Physiology of Domestic Animals2 Units36 hours lecture.Degree AppropriatePrerequisite: AGLI 95Physiology of domestic animals with emphasis on the function of internal organs and body systems. Designed for the second year
AGRICULTURE: LIVESTOCK PRODUCTION AGLI 12 — Exotic Animal Management 3 Units 54 hours lecture. Degree Appropriate Care and management of exotic and alternative livestock species with emphasis on identification, health maintenance, handling techniques,	AGLI 20 — Horse Behavior and Training2 Units18 hours lecture.Degree Appropriate54 hours lab.Corequisite: AGLI 16 or AGLI 18 (may have been taken previously) or equivalent experience with horses	Registered Veterinary Technology student in preparation for the state board examination. AGRICULTURE: ORNAMENTAL HORTICULTURE AGOR 1 — Horticultural Science 3 Units
nutrition and reproduction. Includes analysis of industry trends and principal marketing uses of exotic animals. AGLI 14 — Swine Production 3 Units (CAN AG 24) Degree Appropriate, CSU	Breaking and starting young horses. Concentrates on halter training of foals, ground work on yearlings, and green-breaking two-year-olds and up. Includes lunging techniques, driving, and breaking to a saddle. Training in collection, turning, backing, leads, and trailer loading.	54 hours lecture. Degree Appropriate, CSU Basic horticulture skills and techniques for use in gardening, nursery, and landscape applications. Emphasis on propagation, cultural practices, and the study of plant relationships, structure, growth and development.
36 hours lecture. 54 hours lab. A study of the various types of swine enterprises and the ways and means of entering them. Swine management, including handling, feeding, breeding, farrowing, butchering, and marketing. Practical skills are taught using the college farm.	AGLI 30 — Beef Production3 Units36 hours lecture.Degree Appropriate, CSU54 hours lab.Principles and practices in the selection and management of feeder, market, and breeding beef cattle. Economics of production, retail product, utilization of farm-grown feeds, and feedlot operation.	AGOR 2 — Plant Propagation/Greenhouse Management 3 Units 36 hours lecture. Degree Appropriate, CSU 54 hours lab. Plant propagation and production practices with emphasis on florists' plants, woody ornamentals and fruits. Commercial techniques include seed propagation, cuttings, grafting and budding, layering, fern sporing
AGLI 16 — Horse Production4 UnitsFall SemesterDegree Appropriate, CSU, UC(CAN AG 26)CAN AG 26)	AGLI 34 — Livestock Judging and Selection 2 Units 18 hours lecture. Degree Appropriate, CSU, UC 54 hours lab.	and division. Stresses greenhouses and other environmental structures for plant propagation and production.
54 hours lecture. 54 hours lab. Selection, utilization, and management of the light horse emphasizing recreational aspects of the modern horse. Laboratory work includes	Study of form and appearance of farm animals as related to their function. Includes judging of breeding and terminal livestock as well as carcass evaluation. AGLI 95 — Anatomy of Domestic Animals 4 Units	AGOR 4 — Park Management3 Units54 hours lecture.Degree AppropriateManagement and operation of municipal park departments. Includesthe development of budgets, purchasing, park policies, planning andscheduling. Field trip required.
experience in the care of horse and tack. AGLI 17 — Sheep Production 3 Units Spring Semester Degree Appropriate, CSU (CAN AG 22) 36 hours lecture. 54 hours lab.	54 hours lecture. Degree Appropriate, CSU 54 hours lab. Anatomy of domestic animals including body structures and systems, comparing domestic animals commonly found in the veterinary medical industry.	AGOR 5 — Park Facilities 3 Units 54 hours lecture. Degree Appropriate Management and operation of different types of park facilities. Includes the management of sports fields, recreation centers, campgrounds, aquatic facilities and golf courses.
A study of the various types of sheep enterprises and the ways and means of entering them. Sheep management, sheep handling, feeding, shearing, breeding, lambing, and marketing. Practical skills are taught on the college farm and sheep farms in the area.	AGLI 96 — Animal Sanitation and Disease Control3 Units54 hours lecture.Degree Appropriate, CSUPrevention and control of infectious diseases affecting domestic animals, including basic disease concepts, transmission of infectious diseases, principles of sanitation and fundamentals of immunology.	AGOR 13 — Landscape Design3 Units36 hours lecture.Degree Appropriate, CSU54 hours lab.Fundamentals and implementation of landscape design. Principles ofGesign, the design process, drafting, graphics, site evaluation,landscaping materials, and plant usage. Projects emphasize residentialand small commercial sites.

AGOR 15 — Interior Landscaping 3 Units Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. Design, installation and maintenance practices used in interior landscaping. Includes identification, culture and care of plants suitable for interior use. Field trip required. AGOR 24 — Integrated Pest Management 3 Units 36 hours lecture. Degree Appropriate, CSU	AGOR 30 — Ornamental Plants – Trees and Woody Shrubs 3 Units 36 hours lecture. Degree Appropriate, CSU, UC 54 hours lab. Identification, growth habits, culture and ornamental use of landscape trees and shrubs adapted to climates of California. Plants emphasized will come from the California Association of Nurseries and Garden Centers (CANGC) and California Landscape Contractors Association (CLCA) certification test plant lists. AGOR 32 — Landscaping and Nursery Management 3 Units	AGOR 51 — Tractor and Landscape Equipment Operations 3 Units Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 54 hours lab. Selection, operation, repair and maintenance of power equipment used in the landscape industry. Includes 2WD and 4WD tractors, skip loader, skid steerloader, backhoe, lawnmowers, edgers, weed eaters, blower/vacuum, rotatillers, chain saws, spraying equipment and all-terrain vehicles. Laboratory includes actual hands-on applications of this equipment.
54 hours lab. Identifies common agricultural pests in Southern California and analyzes physical, biological and chemical pest control principles and practices. Stresses use, safety, equipment, laws, and regulations of pesticides. AGOR 25 — Floral Design I 3 Units 36 hours lecture. Degree Appropriate, CSU 54 hours lab. Instruction and application of principles in the art of floral design as to form, styles and composition. Designing of floral arrangements, wreaths, sprays, baskets, bouquets, wedding flowers and corsages are included in	Fall Semester Degree Appropriate, CSU 36 hours lecture. 54 hours lab. <i>Advisory: AGOR 1</i> Operation and management of wholesale and retail nurseries. Includes site location and layout of areas; greenhouse management; soil mixes and proper use of fertilizers, insecticides, fungicides, herbicide and growth regulators; irrigation; mechanization; financing; personnel management; retail displays, advertising and customer relationships; federal, state and local laws and regulations. Field trips are required.	AGOR 52 — Hydraulics 3 Units 36 hours lecture. Degree Appropriate, CSU 54 hours lab. Operation, maintenance, and repair of hydraulic systems. Emphasis: pumps, valves, cylinders, flow control, reservoirs, lines, motors, and hydrostatic transmissions. Laboratory provides hands-on application of hydraulic systems. AGOR 53 — Small Engine Repair I 3 Units Degree Appropriate, CSU
AGOR 26 — Floral Design II 3 Units 36 hours lecture. Degree Appropriate, CSU 54 hours lab. Prerequisite: AGOR 25 or equivalent experience. Continued application of principles in the art of floral design. Contemporary design theory emphasizing creativity, self expression, and	AGOR 39 — Turf Grass Production and Management3 Units36 hours lecture.Degree Appropriate, CSU54 hours lab.Introduction to cultivation, maintenance and management of turfgrasses utilized for athletic fields, golf courses, parks, cemeteries,commercial and residential lawns. Identification, installation, culturalrequirements and maintenance practices are emphasized.	(May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 54 hours lab. Principles and repair of small engines used in landscape, industrial and agricultural applications. Includes repairs of lawnmowers, chain saws, 2-cycle engine, 4-cycle engine, spraying equipment, all-terrain vehicles, and other related gas-powered equipment.
professional design situations.AGOR 27 — Floral Design III3 Units(May be taken two times for credit.)Degree Appropriate(May be taken for option of letter grade or Credit/No Credit.)36 hours lecture.36 hours lecture.54 hours lab.Prerequisite: AGOR 25 and AGOR 26Advanced application of principles in the art of holiday designs, party and wedding designs, and sympathy designs. Florist management operations will be emphasized. Students who repeat this course will improve skills through further instruction and practice.AGOR 29 — Ornamental Plants – Herbaceous3 Units 36 hours lecture.36 hours lecture.Degree Appropriate, CSU, UC 54 hours lab.Identification, growth habits, culture and ornamental use of landscape annuals, biennials, perennials, ferns, indoor plants, ground covers and vines adapted to climates of California. Plants emphasized will come from the California Association of Nurseries and Garden Centers (CANGC) and California Landscape Contractors Association (CLCA) certification test plant lists.	AGOR 40 — Sports Turf Management3 UnitsSpring SemesterDegree Appropriate(May be taken for option of letter grade or Credit/No Credit.)36 hours lecture.54 hours lab.Prerequisite: AGOR 39 or equivalent experiencePrepares students to work in the sports turf industry. Emphasizes turfcultural techniques used in sports turf management. Includes turfsurfaces used on baseball, football, soccer, tennis, golf courses, drivingranges and other sports fields in both professional and amateur sports.Field trips are included.AGOR 50 — Soil Science and Management30 hours lecture.54 hours lab.Principles of proper soil management to optimize plant growth,including management of air, water, nutrients and organic matter.Physical and chemical properties of soil that govern soil reactions andinteractions. Field trips are included.	AGOR 54 — Small Engine Repair II3 Units Degree Appropriate, CSU(May be taken for option of letter grade or Credit/No Credit.)36 hours lecture.54 hours lab.Advanced repair and maintenance of mid-horsepower gasoline and diesel engines. Multi-cylinder air- and water-cooled engines used in landscape, industrial and agricultural applications. Repair of ridemowers, generator engines, air compressor engines, 2-cycle and 4-cycle engines, spraying equipment, all-terrain vehicles, and other related gas-powered equipment. Students gain actual hands-on experience maintaining and overhauling engines.AGOR 55 — Diesel Engine Repair3 Units Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture.54 hours lab.Repair and maintenance of diesel engines used to power industrial, landscape and agricultural equipment. Students gain actual hands-on experience maintaining, servicing, and repairing diesel engines.

AGOR 56 — Engine Diagnostics 3 Units Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture.	requirements, selection of emitters and low-flow devices, and uniformity of water distribution. Students will gain hands-on experience in design and installation techniques. AGOR 71 — Landscape Construction Fundamentals 3 Units	hours per semester is required for each one unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice.
54 hours lab. Analysis and evaluation of tractor power failure. Students gain actual experience in the proper diagnostic procedures of power equipment. Service, maintenance and repair of tractor electrical systems: electrical wiring, voltage regulators, generators, alternators, switches, gauges, batteries and test equipment.	Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 54 hours lab. <i>Advisory: Eligibility for ENGL 68</i> Fundamentals of construction techniques and tools used in landscaping.	AGOR 92 — Work Experience in Nursery Operations 2 Units (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.) 150 hours lab. Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog. In the college Catalog.
AGOR 57 — Power Train Repair 3 Units Degree Appropriate	Students will gain skills in construction projects that include surveying techniques, utilities (gas, water, electricity), woodworking, and masonry.	This course is designed to provide majors with actual on-the-job experience in an approved work station which is related to classroom
 (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 54 hours lab. Service, maintenance, and repair of power trains. Students gain experience with clutches, transmissions, differentials, power take-off 	AGOR 72 — Landscape Hardscape Applications 3 Units Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 54 hours lab.	instruction. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice.
units, and final drive used to transmit power on tractors. AGOR 62 — Landscape Irrigation – Design and Installation 3 Units Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.)	Landscape construction pertaining to hardscape featured in the landscape. Estimation and installation of fences, walks, planters, patios, lighting, barbecues, gazebos, decks, ponds, spas, fountains and pools. Students will gain hands-on experience in the laboratory activities.	AGOR 93 — Work Experience in Nursery Operations3 Units(May be taken four times for credit.)Degree Appropriate(May be taken for Credit/No Credit only.)225 hours lab.
36 hours lecture. 54 hours lab. Design and application of turf and ornamental irrigation systems. Design techniques, sprinkler system components and hydraulic principles used in nursery management, interior design, residential and commercial landscaping. Special emphasis is given to water conservation incorporating controlled flow technologies.	AGOR 73 — Landscaping Laws, Contracting, and Estimating 3 Units Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. Landscape laws, contracting, and estimating as it pertains to Landscape Construction. Information covered will be helpful for the licensing exam administered by the state of California C-27 classification. Students will gain hands-on experience of contracting and running a business.	 Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog. This course is designed to provide majors with actual on-the-job experience in an approved work station which is related to classroom instruction. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Students who repeat this course will improve
AGOR 63 — Landscape Irrigation Systems Management 3 Units Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 54 hours lab. Advisory: Eligibility for ENGL 68 A systematic approach to water conservation in the landscape. Repair techniques that will allow a current system to efficiently operate to its initial design. Trouble shooting procedures including field testing of valves and controllers. Irrigation efficiency test will be incorporated to demonstrate proper methods of water audits.	AGOR 75 — Urban Arboriculture 3 Units Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 54 hours lab. Care and management of ornamental trees. Includes pruning techniques, fruit tree care, bracing, cabling, and pest control. Safe practices in the use of equipment including the use of ropes, chippers, boom trucks, chain saws, and identification and evaluation of common trees. Prepares students for the tree worker and arborist certification exams.	skills through further instruction and practice. AGOR 94 — Work Experience in Nursery Operations 4 Units (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.) 300 hours lab. Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog. This course is designed to provide majors with actual on-the-job experience in an approved work station which is related to classroom instruction. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. It is
AGOR 64 — Landscape Irrigation – Drip and Low Volume 3 Units Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 54 hours lab. Conservation of water in the landscape by utilization of drip and low-flow irrigation practices. Design, operation and maintenance of drip and low-flow irrigation systems, including determination of irrigation	AGOR 91 — Work Experience in Nursery Operations 1 Unit (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.) 75 hours lab. Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog. 1 This course is designed to provide majors with actual on-the-job experience in an approved work station which is related to classroom instruction. A minimum of 75 paid clock hours or 60 non-paid clock	recommended that the hours per week are equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice.

Section 10 113

AIR CONDITIONING & REFRIGERATION AIRC 10 — Technical Mathematics in Air Conditioning and Refrigeration 2 Units 27 hours lecture. Degree Appropriate 27 hours lab. Develops mathematical skills required for the study and application of	AIRC 26B — Gas Heating Fundamentals 2 Units 36 hours lecture. Degree Appropriate Advisory: AIRC 12, AIRC 25 taken prior Theory, operation, and application of natural gas and propane heating systems used in residential and light commercial heating installations
and Refrigeration 2 Units 27 hours lecture. Degree Appropriate 27 hours lab.	Advisory: AIRC 12, AIRC 25 taken prior Theory, operation, and application of natural gas and propane heating
air conditioning and refrigeration including measurements and equations applied to heat loads, air distribution, electricity, and the design of air conditioning and refrigeration equipment.	including the properties of fuel gasses, gas combustion, furnace construction, pilot proving devices and ignition systems. AIRC 30 — Heat Load Calculations 3 Unit 54 hours lecture. Degree Appropriate
AIRC 11 — Welding for Air Conditioning and Refrigeration 2 Units 18 hours lecture. Degree Appropriate 54 hours lab. Fundamentals of welding related to the field of air conditioning and refrigeration with emphasis on the sterile techniques and skills required for joining copper refrigerant lines and the procedures for light fabrication.	Advisory: AIRC 20 taken prior Heat load factors and charts will be explored, developed and applied to the heat loss and gain of a residential, refrigeration and commercial building. AIRC 31 — Commercial Electrical for Air Conditioning and Refrigeration 4 Units
AIRC 12 — Air Conditioning Codes and Standards 3 Units 54 hours lecture. Degree Appropriate Building codes and standards as they apply to the air conditioning and refrigeration industry. Develops skills necessary to read and interpret building codes and resolve installation and service problems as they apply to the construction industry.	54 hours lecture. Degree Appropriate 54 hours lab. <i>Advisory: AIRC 25 taken prior</i> Electrical control of commercial air conditioning and refrigeration equipment emphasizing time clocks, defrost, three phase transformers, three phase motors, timers, sequencers, starting methods and troubleshooting of three phase systems.
AIRC 20 — Refrigeration Fundamentals3 Units36 hours lecture.Degree Appropriate72 hours lab.Principles of mechanical refrigeration based on the refrigeration cycleand associated mechanical components. Develops skills for interpretingservice gauge pressures and sensible temperatures, system dehydrationtechniques, and the safe handling and containment of refrigerants.	AIRC 32A — Air Properties and Measurement 27 hours lecture. Degree Appropriate <i>Advisory: AIRC 20, AIRC 30 taken prior</i> Investigates the air-side operating theory and application of comfort cooling systems. This course will broaden the student's understanding of air conditioning systems by addressing psychrometrics to include the measurement of dry bulb and wet bulb temperatures, relative humidity,
AIRC 25 — Electrical Fundamentals for Air Conditioning and Refrigeration 4 Units and Refrigeration 54 hours lecture. Degree Appropriate 54 hours lab. Electrical principles and practices used in air conditioning and refrigeration as applied to the development and interpretation of schematics and the sequential approach to wiring circuits including power supplies, motors, and controls. Develops skills for designing electrical circuits, and electrical troubleshooting.	dew point temperatures, and sensible and latent heat processes. AIRC 32B — Air Distribution Systems 1.5 Units 27 hours lecture. Degree Appropriate Advisory: AIRC 20, AIRC 30, AIRC 32A taken prior Designed as a continuation of AIRC 32A and explores airside equipment and duct design applied to built-up and unitary air distribution systems. AIRC 34 — Advanced Mechanical Refrigeration 4 Units 54 hours lecture. Degree Appropriate
AIRC 26A — Heat Pump Fundamentals 1.5 Units 27 hours lecture. Degree Appropriate Advisory: AIRC 25 taken prior Theory, operation and application of heat pump systems used in residential and light commercial heating installations including the heat pump refrigeration cycle, reversing valves, defrost methods, supplemental heat, balance point, air flow, and heat pump thermostats.	54 hours lab. Advisory: AIRC 31, AIRC 32A, AIRC 32B taken prior Advanced principles of mechanical air conditioning and refrigeration based on operating characteristics of working equipment and the inter pretation of the pressure-enthalpy chart. Advanced technical aspects of mechanical components will be explored to include compressors, metering devices, pressure regulators, capacity controls, and defrost methods.
	lesign of air conditioning and refrigeration equipment. INRC 11 — Welding for Air Conditioning and Refrigeration 2 Units 8 hours lecture. Degree Appropriate 64 hours lab. Fundamentals of welding related to the field of air conditioning and efrigeration with emphasis on the sterile techniques and skills required or joining copper refrigerant lines and the procedures for light fabrication. INRC 12 — Air Conditioning Codes and Standards 3 Units 64 hours lecture. Degree Appropriate Building codes and standards as they apply to the air conditioning and efrigeration industry. Develops skills necessary to read and interpret building codes and resolve installation and service problems as they upply to the construction industry. INRC 20 — Refrigeration Fundamentals 3 Units 64 hours lecture. Degree Appropriate 72 hours lab. 73 rinciples of mechanical refrigeration based on the refrigeration cycle and associated mechanical components. Develops skills for interpreting ervice gauge pressures and sensible temperatures, system dehydration echniques, and the safe handling and containment of refrigerants. INRC 25 — Electrical Fundamentals for Air Conditioning and efrigeration as applied to the development and interpretation of chematics and the sequential approach to wiring circuits including bower supplies, motors, and controls. Develops skills for designing electrical principles and practices used in air conditioning and efrigeration as applied to the development and interpretation of chematics and the sequential approach to wiring circuits including bower supplies, motors, and controls. Develops skills for designing electrical circuits, and electrical troubleshooting. INRC 264 — Heat Pump Fundamentals 77 hours lecture. Degree Appropriate <i>Mavisory: AIRC 25 taken prior</i> heory, operation and application of heat pump systems used in esidential and light commercial heating installations including the heat pump refrigeration cycle, reversing valves, defrost methods,

AIRC 97 — Work Experience in Air Conditioning and Refrigeration 3 Units (May be taken four times for credit.) Non-Degree Credit (May be taken for Credit/No Credit only.) 225 hours lab. Prerequisite: Approval of college Work Experience supervisor and compliance with Work Experience regulations as designated in the Colleae Catalog	AIRT 43 — Air Traffic Control Team Skills 1.5 Units 27 hours lecture. Degree Appropriate, CSU Advisory: AIRT 42 Leadership skills for aviation professionals, with emphasis on air traffic control scenarios. Control tower simulations, including communication and conflict resolution. Coordination and control of air traffic utilizing FAA standards and interpersonal team skills.
This course is designed to combine actual job experience in Air Conditioning & Refrigeration with related classroom instruction. This work experience may be during a regular semester or during a summer session. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice.	AIRT 45 — Flight Services 3 Units 54 hours lecture. Degree Appropriate, CSU Advisory: AERO 23, AERO 29 Air traffic control procedures utilized by Flight Service Stations in providing flight assistance and communication services. Air traffic pilot briefings, emergency procedures, flight handling, search and rescue, and introduction to data transmission procedures and services. AIRT 47 — Work Experience in Air Traffic Control 1 Unit
AIRC 98 — Work Experience in Air Conditioning and Refrigeration 4 Units (May be taken four times for credit.) Non-Degree Credit (May be taken for Credit/No Credit only.) 300 hours lab. Prerequisite: Approval of college Work Experience supervisor and compliance with Work Experience regulations as designated in the College Catalog This course is designed to combine actual job experience in Air Conditioning & Refrigeration with related classroom instruction. This	 (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.) 75 hours lab. Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog On-the-job experience in an approved FAA work station. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice.
work experience may be during a regular semester or during a summer session. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice.	AIRT 51 — Air Traffic Control Laboratory1 Unit54 hours lab.Degree AppropriateAdvisory: AERO 23, AERO 26, AERO 29Concepts, procedures, and skills related to air traffic control. Microphonetechnique, voice control, phraseology, facility and interfacilitycoordination, strip markings, airport traffic control, weather observing, and control tower functions.
AIR TRAFFIC CONTROL AIRT 41 — Aircraft Recognition and Performance 2 Units 36 hours lecture. Degree Appropriate, CSU Advisory: AERO 23 Recognition of distinctive identification features of operational aircraft and their performance characteristics. Classification of aircraft by Federal Aviation Administration designations. AIRT 42 — Air Traffic Control Environment 3 Units Fall Semester Degree Appropriate, CSU 54 hours lecture. Advisory: AERO 23 and TRAN 17 Aircraft operation in the National Airspace System. Control tower operations, terminal and envoute radar control. Coordination and control within an ATC team environment. Radio communication techniques and phraseology. Non-radar control and separation procedures. Advisory: Aero 20	AIRT 55 — Terminal Radar Approach Control Laboratory 1 Unit (May be taken two times for credit.) Degree Appropriate 54 hours lab. Advisory: AIRT 51 and AERO 30 taken prior or concurrently Simulation of a radar approach control facility concentrating on approach and departure procedures using appropriate phraseology, flight progress strip markings and radar separation standards. Students who repeat this course will improve skills through further instruction and practice.
	and Refrigeration3 Units(May be taken four times for credit.)Non-Degree Credit(May be taken for Credit/No Credit only.)225 hours lab.Prerequisite: Approval of college Work Experience supervisor and compliance with Work Experience regulations as designated in the College CatalogDis course is designed to combine actual job experience in Air Conditioning & Refrigeration with related classroom instruction. This work experience may be during a regular semester or during a summer session. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice.4 Units and Refrigeration (May be taken four times for credit.) Non-Degree Credit (May be taken four times for credit.) Non-Degree Credit Non-Degree Credit (May be taken four times for

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AIRCRAFT MAINTENANCE TECHNOLOGY AIRM 65A — Aircraft Powerplant Maintenance Technology 12 Units	AIRM 70B — Aircraft Maintenance Electricity and Electronics 3 Units 36 hours lecture. Degree Appropriate 72 hours lab.	modules or completion of laboratory assignments. 108 lab hours maximum available. Students who repeat this course will improve skills through further instruction and practice.
Fall SemesterDegree Appropriate, CSU108 hours lecture.324 hours lab.Advisory: AIRM 70A, AIRM 71Theory and maintenance of aircraft powerplant including systems andcomponents. Approved by the FAA and required for the Airframe &Aircraft Powerplant Maintenance Technology Major.	Advisory: AIRM 72, AIRM 73 (May be taken concurrently) Basic principles of alternating current, terminology, units and circuit arrangements, alternators, inverters and related controls, derating of switches and circuit breakers, capacitors, inductors, transistors, cathode ray tuelectronics, microprocessors, computers, power distribution systems for large aircraft. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major.	AIRM 81 — Lab Studies in Aircraft Maintenance Technology 1 Unit (May be taken four times for credit.) Non-Degree Credit (May be taken for Credit/No Credit only.) 54 hours lab. Additional lab instruction for students lacking FAA required hours to complete a training certificate or required remediation of program modules or completion of laboratory assignments. Students who repeat
AIRM 65B — Aircraft Powerplant Maintenance Technology12 UnitsSpring SemesterDegree Appropriate108 hours lecture.324 hours lab.324 hours lab.Advisory: AIRM 70B, AIRM 72, AIRM 73Continuation of Aircraft Powerplant Maintenance Technology 65A,focusing on reciprocating engine systems and components and turbine	AIRM 71 — Aviation Maintenance Science 6 Units 108 hours lecture. Degree Appropriate Federal aviation regulations, interpretation of aircraft drawings, basic physics, technical mathematics, and aircraft weight and balance. FAA approved course required of all aircraft powerplant and airframe maintenance technology majors.	this course will improve skills through further instruction and practice. AIRM 90A — Airframe Maintenance Technology 3 Units Spring Semester Degree Appropriate 36 hours lecture. 72 hours lab. Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73
engine systems and components. Approved by the FAA and required for the Airframe and Aircraft Power Maintenance Technology major.	AIRM 72 — Aviation Materials and Processes1.5 Units18 hours lecture.Degree Appropriate	A FAA approved course covering aircraft flight, flight control and construction methods and procedures.
AIRM 66A — Airframe Maintenance Technology12 UnitsFall SemesterDegree Appropriate, CSU108 hours lecture.324 hours lab.Advisory: AIRM 70A, AIRM 71	36 hours lab. <i>Advisory: AIRM 70B, AIRM 73</i> An FAA approved course covering aviation materials, non-destructive testing, basic heat-treating and an introduction to machine tool operation.	AIRM 90B — Airframe Maintenance Technology3 UnitsSpring SemesterDegree Appropriate36 hours lecture.72 hours lab.Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73
Theory of flight. Inspection, maintenance, repair, and alteration of aircraft structures. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major.	AIRM 73 — Aviation Welding 1.5 Units 18 hours lecture. Degree Appropriate 36 hours lab.	Aircraft structural designs, station numbers, aviation nomenclature and definitions. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major.
AIRM 66B — Airframe Maintenance Technology12 UnitsSpring SemesterDegree Appropriate108 hours lecture.324 hours lab.	Advisory: AIRM 70B, AIRM 72 (May be taken concurrently) Theory and techniques of gas and inert gas welding as they apply to aircraft construction and repair. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major.	AIRM 91A — Airframe Maintenance Technology3 UnitsFall SemesterDegree Appropriate36 hours lecture.72 hours lab.
Advisory: AIRM 70B, AIRM 72, AIRM 73 Continuation of Airframe Maintenance Technology 66A, focusing on airframe systems and components. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major.	AIRM 74 — Aircraft Maintenance Technology – Work Experience2 Units(May be taken for Credit/No Credit only.)Degree Appropriate90 hours lab.Degree Appropriate	<i>Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73</i> Aircraft wood structures, their coverings and finishes. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major.
AIRM 70A — Aircraft Maintenance Electricity and Electronics 3 Units 36 hours lecture. Degree Appropriate 72 hours lab. Advisory: AIRM 71 Basic electrical theory including units, terminology, applications of Ohm's Law in series and parallel circuits, nickel cadmium and lead acid	<i>Prerequisite: AIRM 65A and AIRM 65B or AIRM 66A and AIRM 66B</i> Combines aircraft maintenance experience in addition to classroom instruction for college credit. Two units of credit will be earned as a result of 120 unpaid work hours. The employer/evaluator will have the student perform aircraft maintenance work under direct supervision at a maintenance facility.	AIRM 91B — Airframe Maintenance Technology3 UnitsFall SemesterDegree Appropriate36 hours lecture.72 hours lab.Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73Metals and composite materials used in aircraft construction,
storage batteries, generators and related control circuits, electrical wiring practcal measuring instruments construction and use. Approved by the FAA and required for the Airframe & Aircraft Powerplant Maintenance Technology Major.	AIRM 80 — Lab Studies in Aircraft Maintenance Technology .5 Unit(May be taken four times for credit.)Degree Appropriate(May be taken for Credit/No Credit only.)27 hours lab.Advisory: AIRM 65 A/B, or AIRM 66 A/B, or AIRM 90-93 A/B, or AIRM 95-98 A/B, or equivalentAdditional lab instruction for students needing FAA required hours tocomplete a training certificate or requiring remediation of program	maintenance, and repair. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major.

AIRM 92A — Airframe Maintenance Technology3 UnitsSpring SemesterDegree Appropriate36 hours lecture.72 hours lab.Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73Aircraft hydraulic and pneumatic power systems, landing gear andwheel and brake systems. FAA approved. Approved by the FAA andrequired for the Airframe and Aircraft Powerplant MaintenanceTechnology major.	AIRM 96A — Aircraft Powerplant Maintenance Technology3 UnitsFall SemesterDegree Appropriate36 hours lecture.72 hours lab.Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73Aircraft turbine engine history, construction, thrust formulas and turbineengine types. Approved by the FAA and required for the Airframe andAircraft Powerplant Maintenance Technology Major. Required forFAA certification.	ALCOHOL DRUG COUNSELING AD 1 — Alcohol/Drug Dependency 3 Units 54 hours lecture. Degree Appropriate, CSU Presents an overview of alcohol and chemical dependencies and ramifications. Explores the impact these dependencies have upon the individual's social, psychological, economic, physiological well-being, community and family concerns. Examines the "myths," images, and stereotypes about substances and substance abusers. Includes familiarization with terms.
AIRM 92B — Airframe Maintenance Technology3 UnitsSpring SemesterDegree Appropriate36 hours lecture.72 hours lab.72 hours lab.Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73Aircraft warning systems, aircraft instrument systems and aircraft fuelstorage and transfer systems. Approved by the FAA and required for theAirframe and Aircraft Powerplant Maintenance Technology Major.	AIRM 96B — Aircraft Powerplant Maintenance Technology 3 Units Fall Semester Degree Appropriate 36 hours lecture. 72 hours lab. Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73 Propeller theory, nomenclature, application, constant speed devices, and propeller controls. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology Major. Required for	AD 2 — Physiological Effects of Alcohol/Drugs 3 Units 54 hours lecture. Degree Appropriate, CSU Examines in-depth the physiological effect of alcohol and other drugs on the human body. Includes aspects of tolerance, habituation, cross tolerance and synergistic effect. AD 3 — Chemical Dependency: Intervention, Treatment and Recovery 3 Units
AIRM 93A — Airframe Maintenance Technology 3 Units Fall Semester Degree Appropriate 36 hours lecture. 72 hours lab. Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73 A FAA approved course covering aircraft cabin heating and cooling, communication and navigation systems, and ice and rain control systems in small and large aircraft.	FAA certification. AIRM 97A — Aircraft Powerplant Maintenance Technology 3 Units 36 hours lecture. Degree Appropriate 72 hours lab. Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73 A FAA approved course covering instrumentation and smoke and fire detection/suppression systems used in small and large aircraft. Includes engine starting systems and electrical power generating devices.	54 hours lecture.Degree Appropriate, CSUExamines and analyzes the tools and techniques necessary in moving the chemically dependent individual into the treatment process, the varying types of treatment programs, and the essentials of effective recovery.AD 4 — Issues in Domestic Violence3 Units54 hours lecture.Degree AppropriateExamines the history, law and psychology of domestic violence, cultural/social aspects, and relationship to substance abuse.
AIRM 93B — Airframe Maintenance Technology3 Units36 hours lecture.Degree Appropriate72 hours lab.Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73Aircraft fire detection and suppression systems. Aircraft inspectionrequirements and procedures. Approved by the FAA and required for theAirframe and Aircraft Powerplant Maintenance Technology major.3 Units	AIRM 97B — Aircraft Powerplant Maintenance Technology 3 Units Spring Semester Degree Appropriate 36 hours lecture. 72 hours lab. Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73 Reciprocating engine and turbine engine fuels, fuel metering devices, and system operation. Approved by the FAA and required for the	AD 5 — Chemical Dependency: Prevention and Education 1.5 Units 27 hours lecture. Degree Appropriate, CSU Reviews and examines drug prevention effectiveness at both the private and public level. Appraises personal attitudes, past and present, and their influence on societal norms. Evaluates current prevention programs and the necessary steps for developing, funding and managing a program.
AIRM 95A — Aircraft Powerplant Maintenance Technology3 Units36 hours lecture.Degree Appropriate72 hours lab.Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73A FAA approved course covering piston powerplant theory. Includescalculations and construction methods.	Airframe and Aircraft Powerplant Maintenance Technology major. AIRM 98A — Aircraft Powerplant Maintenance Technology 3 Units Fall Semester Degree Appropriate 36 hours lecture. 72 hours lab. Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73	AD 6 — Dual Diagnosis3 Units54 hours lecture.Degree Appropriate, CSUOverview of the complex interactions of mental disorders and chemical dependency. Reviews and examines the key areas involving dual diagnosis: definition, diagnosis, treatment and aftercare.AD 8 — Group Process and Leadership3 Units
AIRM 95B — Aircraft Powerplant Maintenance Technology 3 Units Spring Semester Degree Appropriate 36 hours lecture. 72 hours lab. <i>Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73</i> A FAA approved course covering piston engine overhaul, inspection, and troubleshooting procedures.	Reciprocating and turbine engine ignition system theory and operation. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major. AIRM 98B — Aircraft Powerplant Maintenance Technology 3 Units 36 hours lecture. Degree Appropriate 72 hours lab. Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73 Reciprocating and turbine engine lubricants and lubricating systems. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major.	54 hours lecture. Degree Appropriate <i>Advisory: AD 1, AD 2, AD 3 taken prior and AD 4, AD 5, AD 6 taken prior</i> <i>or concurrently</i> Introduces the theory and practice of group counseling, the group

AD 9 — Family Counseling3 Units54 hours lecture.Degree AppropriateAdvisory: AD 1, AD 2, AD 3 taken prior and AD 4, AD 5, AD 6 taken prior or concurrentlyIntroduces the theory and practice of family counseling. Topics include family systems and dynamics, effects of chemical dependency, and counseling techniques.AD 10 — Client Record and Documentation1.5 Units	AMERICAN LANGUAGE AMLA 31R — American Language Basic Reading 4 Units (May be taken two times for credit.) Pre-Collegiate (May be taken for option of letter grade or Credit/No Credit.) 72 hours lecture. Prerequisite: Satisfactory score on appropriate Reading Placement Test or successful completion of noncredit ESL Level 4 Basic reading and vocabulary for non-native speakers. Students who repeat	AMLA 43W — American Language Advanced Writing (May be taken two times for credit.) 4 Units Pre-Collegiate (May be taken for option of letter grade or Credit/No Credit.) 72 hours lecture. 72 hours lecture. Prerequisite: Satisfactory score on the English Placement Test or successful completion of AMLA 42W Advisory: AMLA 33R taken prior or concurrently Advanced grammar and writing for non-native speakers. Students who
Spring SemesterDegree Appropriate27 hours lecture.Advisory: AD 1, AD 2, AD 3 taken prior and AD 4, AD 5, AD 6 taken prior or concurrentlyIdentify documentation methods required by government regulatory bodies in clinical records. Emphasis on biopsychosocial history.AD 11 — Techniques of Intervention and Referral3 Units	this course will improve skills through further instruction and practice. AMLA 32R — American Language Intermediate Reading 4 Units (May be taken two times for credit.) Pre-Collegiate (May be taken for option of letter grade or Credit/No Credit.) 72 hours lecture. Prerequisite: Successful completion of AMLA 31R, or satisfactory score on appropriate Reading Placement Test, or successful completion of progradit ECL lowers 5.6 or VICCI	repeat this course will improve skills through further instruction and practice. AMLA 50 — American Language Speaking 3 Units (May be taken two times for credit.) Pre-Collegiate (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. Develops intermediate speaking and listening skills for non-native speakers. Concentration is on pronunciation. Students who repeat this course will improve skills through further instruction and practice.
 54 hours lecture. Degree Appropriate Advisory: AD 1, AD 2, AD 3 taken prior and AD 4, AD 5, AD 6 taken prior or concurrently Study and practice techniques used for crisis and beginning counseling, intake interviewing and referral. Using an experiential format, participants will learn and practice skills in attentive listening, recognizing and responding to different levels of client communication. 	noncredit ESL levels 5, 6, or VESL Intermediate reading and vocabulary for non-native speakers. Students who repeat this course will improve skills through further instruction and practice. AMLA 33R — American Language Advanced Reading (May be taken two times for credit.) (May be taken for option of letter grade or Credit/No Credit.)	AMLA 53 — American Language Speaking 3 Units Pre-Collegiate (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. Develops advanced speaking and listening skills for non-native speakers. Concentrates on formal and informal communication.
AD 13 — Internship/Seminar3.5 Units(May be taken for Credit/No Credit only.)Degree Appropriate, CSU27 hours lecture.126 hours lab.126 hours lab.Advisory: AD 1, AD 2, AD 3, AD 4, AD 5, AD 6, and six units of Restricted Electives taken prior and AD 8, AD 9, AD 10, AD 11 taken prior or concurrentlyThe first of a two-semester sequence which places students in Alcohol/Drug Abuse agencies and organizations. This first semester	72 hours lecture. 72 hours lecture. Prerequisite: Successful completion of AMLA 32R or satisfactory score on appropriate Reading Placement Test Advanced reading and vocabulary for non-native speakers. Students who repeat this course will improve skills through further instruction and practice. AMLA 41W — American Language Basic Writing (May be taken two times for credit.) Pre-Collegiate (May be taken for option of letter grade or Credit./No Credit.)	AMLA 56 — American Language Nouns and Articles1 Unit(May be taken two times for credit.)Pre-Collegiate(May be taken for option of letter grade or Credit/No Credit.)Pre-Collegiate18 hours lecture.Concentrates on count and non-count nouns, article usage and otherdeterminers for non-native learners of English. Writing practice andexercises will emphasize correct usage of these structures in writing andspeaking. Students who repeat this course will improve skills throughfurther instruction and practice.
emphasizes growth in self-awareness and professionalism, interviewing skills and group process skills. AD 14 — Advanced Internship/Seminar 3.5 Units (May be taken for Credit/No Credit only.) Degree Appropriate, CSU 27 hours lecture. 126 hours lab. Advisory: AD 10 and AD 13 The second of a two-semester sequence in which the student applies the values, concepts and skills gained from previous courses to the actual process of helping chemically dependent persons.	 And the second se	AMLA 57 — American Language Verb Review I1 Unit(May be taken two times for credit.)Pre-Collegiate(May be taken for option of letter grade or Credit/No Credit.)18 hours lecture.Concentrates on verb tense, form, and use for non-native learners ofEnglish. Practice in present, past, and future verb tense forms, meaning, and use in both spoken and written English, with special emphasis on writing for college courses. Students who repeat this course will improve their skills through further instruction and practice.1 UnitAMLA 58 — American Language Verb Review II1 Unit (May be taken for option of letter grade or Credit/No Credit.)18 hours lecture.Advanced work on modals, passive voice, passive modals, and conditionals for non-native English students. Exercises and writing practice will emphasize improve their skills through further instruction and practice.10

AMLA 59 — American Language Prepositions1 Unit(May be taken two times for credit.)Pre-Collegiate(May be taken for option of letter grade or Credit/No Credit.)18 hours lecture.Designed to help non-native learners of English practice their use of prepositions in spoken and written English. Students will analyze prepositions and idiomatic expressions through reading and will apply their knowledge to written work. Students who repeat this course will improve skills through further instruction and practice.AMLA 60 — American Language Verb Review III1 Unit	ANAT 35+36 = CAN BIOL SEQ B 54 hours lecture. 108 hours lab. Prerequisite: ANAT 35 and CHEM 10 or CHEM 40 or one year of high school chemistry Extensive study of human physiology at the cellular and molecular levels covering muscular, nervous, circulatory, respiratory, renal, digestive, endocrine, and reproductive systems. Includes regulation and	ANTH 1L — Biological Anthropology Laboratory1 Unit54 hours lab.Degree Appropriate, CSU, UCCorequisite: ANTH 1 or ANTH 1H (May have been taken previously)Scientific study of human evolution. Students will generate and testhypotheses using the techniques and materials of biologicalanthropology. Includes genetic observations and calculations,osteological techniques and measurements, and primate behaviorobservations. One field trip to a zoo for primate observation is required.ANTH 3 — Archaeology3 UnitsDegree Appropriate, CSU, UC
(May be taken two times for credit.)Pre-Collegiate(May be taken for option of letter grade or Credit/No Credit.)18 hours lecture.Advanced work on gerunds, infinitives and participles for non-nativeEnglish students. Exercises and writing practice will emphasizeimproved verbal usage in writing. Students who repeat this course willimprove skills through further instruction and practice.	integration of organ systems where appropriate. ANAT 40 — Human Prosection 2 Units (May be taken four times for credit.) Degree Appropriate, CSU 108 hours lab. Prerequisite: Completion of ANAT 35 Techniques for human prosection. Regional exploration of the human organ systems at the gross level.	(May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. <i>Prerequisite: Eligibility for ENGL 68</i> Introduction to the aims, methods and ethics of archaeological research and their application to the archaeological record, in contrast to popular depictions of archaeology. Evolution of culture from the earliest stone toolmakers to the primary civilizations of the Old and New Worlds, emphasizing invention and spread of agriculture and the impact of
AMLA 61 — American Language Word Forms 1 Unit (May be taken two times for credit.) Pre-Collegiate (May be taken for option of letter grade or Credit/No Credit.) 18 hours lecture. Helps non-native speakers of English practice noun, verb, adjective and adverb word forms in spoken and written English. Students who repeat the course will improve skills by further instruction and practice. ANATOMY & PHYSIOLOGY ANAT 10A — Introductory Human Anatomy 4 Units	ANAT 50 — Basic Anatomy and Physiology 3 Units 54 hours lecture. Degree Appropriate Introduction to human anatomy and physiology by systems, with brief descriptions of biochemistry, cell biology, and molecular biology. Upon completion, students will understand normal functions of major human organ systems and be able to recognize pathologies. ANTHROPOLOGY ANTH 1 — Biological Anthropology 3 Units (CAN ANTH 2) Degree Appropriate, CSU, UC	this change on prehistoric cultures. ANTH 5 — Principles of Cultural Anthropology 3 Units (CAN ANTH 4) Degree Appropriate, CSU, UC 54 hours lecture. The anthropological approach to the study of human behavior from a cross cultural, comparative, and an evolutionary perspective. An exploration into the languages, economics, sociopolitical systems, religions, and world views of diverse world cultures. A technical presentation is stressed as this course is designed for Social Sciences majors.
54 hours lecture. Degree Appropriate, CSU, UC 54 hours lab. A systematic study of the macroscopic and microscopic structures of the human body. Emphasis on cell structures, skeletal, muscular, respiratory, circulatory, nervous, digestive, excretory, endocrine, and reproductive systems.	54 hours lecture. Prerequisite: Eligibility for ENGL 68 The evolutionary biology of primates with particular emphasis on hominid evolution and behavior. The genetic and evolutionary mechanisms underlying evolution, human variation, primate field studies, and the hominid palentological record are stressed.	ANTH 22 — General Cultural Anthropology 3 Units 54 hours lecture. Degree Appropriate, CSU, UC An introductory course to explore the nature of culture and how cultural anthropologists study cultural phenomena such as language, personality, subsistence, economics, social and political organization, marriage, kinship systems, religion, the arts, and culture change. A substantial amount of
ANAT 10B — Introductory Human Physiology 4 Units 54 hours lecture. Degree Appropriate, CSU, UC 54 hours lab. <i>Prerequisite: ANAT 10A or ANAT 35</i> <i>Advisory: CHEM 10 or CHEM 40</i> An integrated study of the function of and interaction between the skeletal, muscular, respiratory, circulatory, nervous, digestive, excretory (including electrolyte and acid-base balance), endocrine, and reproductive systems (including human genetics and embryology).	ANTH 1H — Biological Anthropology – Honors 3 Units (CAN ANTH 2) Degree Appropriate, CSU, UC 54 hours lecture. Prerequisite: Acceptance into the Honors Program The evolutionary biology of primates with particular emphasis on homonid evolution and behavior. The genetic and evolutionary mechanisms underlying evolution, human variation, primate field studies, and the hominid palentological record are stressed. This enriched course is designed for the honors program allowing, for example, more student	case material will be drawn from at least three of the following: African Americans, indigenous peoples of the United States, Asian Americans, Chicano/Latino Americans, and European Americans. This course may meet the cultural diversity requirement at transfer universities. ANTH 30 — The Native American 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Surveys the prehistory and history of Native Americans. An overview of the classification system used to organize particular groups into culture areas related to adaptive strategies. Identification of world contributions
ANAT 35 — Human Anatomy5 Units54 hours lecture.Degree Appropriate, CSU, UC108 hours lab.Structure of the organ systems at the gross, subgross, and microscopiclevels based on human material and dissection of the cat. Designed to serve as an introduction to vertebrate embryology.	directed discussions and more extensive writing assignments. Students may not receive credit for both ANTH 1 and ANTH 1H.	and contemporary issues for modern Native Americans.

course Descriptions		
ANTH 99 — Special Projects in Anthropology2 Units(May be taken four times for credit.)Degree Appropriate, CSU36 hours lecture.To offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced.	ARCH 15 — Architectural Working Drawings – I 3 Units 36 hours lecture. Degree Appropriate, CSU 72 hours lab. Advisory: ARCH 11, ARCH 12, ARCH 14, and eligibility for MATH 51 Methods and techniques used in the development of architectural construction documents for light frame structures (Type V construction) including construction theory, practice, and working drawings. Portfolio will be produced. ARCH 16 — Basic CAD and Computer Application 4 Units (May be taken two times for credit.) Degree Appropriate, CSU, UC 54 hours lecture.	Advanced architectural CAD drawings. Portfolio of working drawing and presentation applications of integrated 2-D and 3-D CAD models will be produced. Students who repeat this course will improve skills through further instruction and practice. ARCH 27 — Design III – Environmental Design3 Units 36 hours lecture.Begree Appropriate, CSU, UC 72 hours lab.Degree Appropriate, CSU, UC Advisory: ARCH 21, ARCH 23 or equivalent experience Application of theory and principles of environmental design as applied to architecture, landscape architecture, urban design, urban planning and (civil) engineering. Portfolio will be produced.
ARCHITECTURAL TECHNOLOGY ARCH 10 — Design I – Elements of Design 3 Units 36 hours lecture. Degree Appropriate, CSU 72 hours lab. Fundamentals of two- and three-dimensional design and design process. Elements include visualization, perception, presentation, expression, and site analysis of physical/contextual/cultural aspects of design and/or the urban environment. Portfolio will be produced.	54 hours lab. Advisory: Eligibility for MATH 51 Basic CAD (Computer Aided Design and Drafting) and computer application in architecture, engineering and related fields (including basic word processing, spreadsheet, CAD and presentation applications). Students who repeat this course will improve skills through further instruction and practice. ARCH 18 — Architectural Computer Aided Design Elements 3 Units	ARCH 28 — Architectural CAD 3-D Illustration and Animation 3 Units (May be taken three times for credit.) Degree Appropriate, CSU 36 hours lecture. 72 hours lab. Advisory: ARCH 18 or equivalent experience Intermediate to advanced architectural CAD in 3-D illustration, rendering and animation. Virtual "walk-through" and "fly-through" of interior/ exterior 3-D models with photo-realistic materials and lighting will be readwade Exudent who reacet this course will intervo chill through
ARCH 11 — Architectural Drawing3 Units36 hours lecture.Degree Appropriate, CSU, UC72 hours lab.Advisory: Eligibility for MATH 51Basic graphic and drawing techniques, including architectural graphics,building construction fundamentals, and methods of drawings consideredprerequisite to architectural design.Degree Appropriate, CSU, UC	(May be taken two times for credit.)Degree Appropriate36 hours lecture.72 hours lab.72 hours lab.Advisory: ARCH 11, ARCH 16 or equivalent experienceIntermediate CAD (Computer Aided Design and Drafting) specifically for architectural design and production. Portfolio of 2-D drawings and 3-D CAD models will be produced. Students who repeat this course will improve skills through further instruction and practice.	produced. Students who repeat this course will improve skills through further instruction and practice. ARCH 29 — Design IV – Advanced Project 3 Units (May be taken two times for credit.) Degree Appropriate, CSU 36 hours lecture. 72 hours lab. Advisory: ARCH 23, ARCH 27 or equivalent experience Advanced design seminars and complex building design projects in
ARCH 12 — Architectural Materials and Specifications 3 Units 54 hours lecture. Degree Appropriate, CSU Advisory: Eligibility for MATH 51 Application and development of construction materials. Formulation of materials specification used in architecture and the construction industry. ARCH 13 — Architectural Illustration 3 Units	ARCH 21 — Design II – Architectural Design3 Units36 hours lecture.Degree Appropriate, CSU72 hours lab.Degree Appropriate, CSUAdvisory: ARCH 10, ARCH 11, ARCH 13Application of methods and theory used in architectural design projects.Includes graphic technique, design process, site analysis, presentationdrawings and construction principles. Portfolio will be produced.	architecture, including portfolio development. Students who repeat this course will improve skills through further instruction and practice. ARCH 31 — World Architecture I 3 Units 54 hours lecture. Degree Appropriate, CSU Development of architecture including ancient Egypt, Europe through the Middle Ages, and classic civilizations of Asia and the Americas.
36 hours lecture. Degree Appropriate, CSU, UC 72 hours lab. Advisory: ARCH 11 or equivalent experience Achitectural and interior illustration including perspective drawing, sketching, shades and shadows, entourage, and color application utilizing various media and development of project portfolio.	ARCH 23 — Architectural Presentations 3 Units 36 hours lecture. Degree Appropriate, CSU 72 hours lab. Advisory: ARCH 10, ARCH 11 taken prior Analysis and preparation of architectural presentation projects, including	Influence of geography, religion, and socio-economic movements on architecture. ARCH 32 — World Architecture II 3 Units 54 hours lecture. Degree Appropriate, CSU Development of modern architecture from the Renaissance to the present day. Influence of environment, religion and socio-economic
ARCH 14 — Building and Zoning Codes3 Units54 hours lecture.Degree AppropriateAdvisory: ARCH 11 or equivalent experienceBuilding and zoning codes, including code requirements related to architectural design and construction documentation. Process of obtaining design approvals and building permits from proper authorities having jurisdiction.	schematic and final design, architectural models, oral presentation techniques, board layouts using hand-drawn and computer-aided techniques, and development of project portfolio. ARCH 26 — Architectural CAD Working Drawings (May be taken three times for credit.) Degree Appropriate 36 hours lecture. 72 hours lab. Advisory: ARCH 15, ARCH 18 or equivalent experience	movements on architecture.

ARCH 89 — Architectural Work Experience 1 Unit (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.) 75 hours lab. Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog Init college Catalog This course is designed to provide actual on-the-job experience in architecture at an approved work site which is related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. This course is available to students achieving a minimum of 12 units in architecture. Students who repeat this course will improve skills through further instruction and practice. 1 Unit	54 hours lecture. Degree Appropriate, CSU, UC Advisory: Eligibility for ENGL 1A A A thematic introduction to selected works of art and visual culture, providing a framework for understanding the relationship between art and society and the differing ways art can be viewed. A global and/or interdisciplinary approach will be taken. Topics will vary with instructor. AHIS 2H — Topics in Visual Art and Culture – Honors 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Prerequisite: Acceptance into the Honors Program A thematic introduction to selected works of art and visual culture, providing a framework for understanding the relationship between art and society and the differing ways art can be viewed. A global and/or	AHIS 5 — History of Western Art: Renaissance 3 Units Through Modern 54 hours lecture. Degree Appropriate, CSU, UC Western art from the Renaissance through Modern periods, demonstrating the relationship of various visual art forms to each other and to the cultural context in which they were produced. AHIS 5H — History of Western Art: Renaissance 3 Units Through Modern – Honors 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Prerequisite: Acceptance into the Honors Program Western art from the Renaissance through Modern periods demonstrating the relationship of various visual art forms to each other and to the cultural context in which they were produced. An honors course designed to provide an enriched experience. Students may not
ARCH 90 — Architectural Work Experience 2 Units (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.) 150 hours lab. Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog Degree Appropriate This course is designed to provide actual on-the-job experience in architecture at an approved work site which is related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. This course is available to students achieving a minimum of 12 units in architecture. Students who repeat this course will improve skills through further instruction and practice. ART HISTORY AHIS 1 — Understanding the Visual Arts 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Prerequisite: Eligibility for ENGL 68 Fundamentals of visual art forms and the role art plays in various historical periods and cultures. Students may not earn credit for both AHIS 1 and ARTB 1. AHIS 1H — Understanding the Visual Arts – Honors 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Prerequisite: Acceptance into the Honors Program 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Prerequisite: Acceptance intot the Honors course designed to provide an	interdisciplinary approach will be taken. Topics will vary with instructor. An honors course designed to provide an enriched experience. Students may not receive credit for both AHIS2 (formerly ARTA 2) and AHIS 2H. AHIS 3 — History of Women and Gender in Art 3 Units 54 hours lecture. Degree Appropriate, CSU, UC <i>Advisory: Eligibility for ENGL 1A</i> Survey of the roles of women and gender in cultural creation and production with a focus on the visual arts. A historical and global survey, covering the role of women artists in the history of art and the representation of gender in a variety of cultures and time periods. AHIS 3H — History of Women and Gender in Art – Honors 3 Units 54 hours lecture. Degree Appropriate, CSU, UC <i>Prerequisite: Acceptance into the Honors Program</i> Survey of the roles of women and gender in cultural creation and production with a focus on the visual arts. A historical and global survey, covering the role of women artists in the history of art and the representation of gender in a variety of cultures and time periods. An honors course designed to provide an enriched experience. Students may not receive credit for both AHIS 3 (formerly ARTA 3) and AHIS 3H. AHIS 4 — History of Western Art: Prehistoric Through Gothic 3 Units 54 hours lecture. Degree Appropriate, CSU, UC <i>Prerequisite: Eligibility for ENGL 68</i> An examination of Western art from the Prehistoric through Gothic periods, demonstrating the relationship of various visual art forms to each other and to the cultural context in which they were produced. AHIS 4H — History of Western Art: Prehistoric Through Gothic - Honors 3 Units 54 hours lecture. Degree Appropriate, CSU, UC <i>Prerequisite: Acceptance into the Honors Program</i> Western art from the Prehistoric through Gothic periods demonstrating the relationship of various visual art forms to each other and to the cultural context in which they were produced. This is an honors course designed to provide an enriched experience. Students may no	course designed to provide an enriched experience. Students may not receive credit for both AHIS 5 (formerly ARTA 5) and AHIS 5H. AHIS 6 — History of Modern Art 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Examines the artistic movements, influences, and individuals who have formed the Modern tradition. Emphasis is on the 20th century; the international and multicultural character of Modern art will be explored. AHIS 6H — History of Modern Art – Honors 3 Units 54 hours lecture. Degree Appropriate, CSU, UC <i>Prerequisite: Acceptance into the Honors Program</i> Examines the artistic movements, influences, and individuals who have formed the Modern tradition. Emphasis is on the 20th century; the international and multicultural character of Modern art will be explored. An honors course designed to provide an enriched experience. Students may not receive credit for both AHIS 6 (formerly ARTA 6) and AHIS 6H. AHIS 9 — History of Asian Art 3 Units 54 hours lecture. Degree Appropriate, CSU, UC An examination of Asian artistic traditions. Major monuments of painting, sculpture, architecture and other visual art forms are studied within their religious and cultural contexts. AHIS 10 — A History of Greek and Roman Art 3 Units and Architecture 54 hours lecture. Degree Appropriate, CSU Advisory: Eligibility for ENGL 68 A critical history of Greek and Roman art before 500 CE. Works of art and architecture will be examined in their cultural contexts. Historical perceptions of Classical art and culture and their impact on Europe and America will be studied.

AHIS 11 — History of African, Oceanic, and Native American Art3 Units54 hours lecture.Degree Appropriate, CSU, UC54 hours lecture.Degree Appropriate, CSU, UCAdvisory: Eligibility for ENGL 1AExamination of the traditional arts of African tribes and kingdoms, Oceania and Australia, and Native North America. Visual arts including painting, sculpture, architecture, body decoration, and ritual objects will be studied in their cultural contexts.AHIS 12 — History of Precolumbian Art3 Units	ANIM 104 — Drawing Fundamentals 3 Units (May be taken two times for credit.) Degree Appropriate, CSU 36 hours lecture. 72 hours lab. Emphasizes creative expression through the use of drawing media and techniques. Emphasis is placed on use of light logic, atmospheric and linear perspective. Includes basic drawing skills and methods of achieving compositional integrity through objective analysis and synthesis. Students who repeat this course will improve skills through further instruction and practice.	ANIM 115 — Storyboarding3 Units(May be taken four times for credit.)Degree Appropriate36 hours lecture.72 hours lab.72 hours lab.Prerequisite: ARTD 15A or ANIM 104Storyboarding for animation including script, idea and actiondevelopment. Staging, expression, emotional appeal, camera movement,dialogue and character enhancement and development will beincluded. Students who repeat this course will improve skills throughfurther instruction and practice.further instruction and practice.
54 hours lecture. Degree Appropriate, CSU, UC Advisory: Eligibility for ENGL 68 The arts of Pre-Columbian Mesoamerica and Andean South America. Major monuments of sculpture, painting, architecture, ceramics and textiles from civilizations including the Maya, Aztecs, and Inca will be studied in their cultural contexts.	ANIM 107 — Figure in Motion 3 Units (May be taken four times for credit.) Degree Appropriate 36 hours lecture. 72 hours lab. Prerequisite: ANIM 101	ANIM 116 — Character Development1.5 Units(May be taken four times for credit.)Degree Appropriate18 hours lecture.36 hours lab.Prerequisite: ARTD 15A or ANIM 104
AHIS 12H — History of Precolumbian Art – Honors 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Prerequisite: Acceptance into the Honors Program The arts of Pre-Columbian Mesoamerica and Andean South America. Major monuments of sculpture, painting, architecture, ceramics and textiles from civilizations including the Maya, Aztecs, and Inca will be States and a states and a states and a states and a state and a states and a state and a	Drawing human figures in motion. Anatomical landmarks, proportion, light and shadow, line composition, figure/ground relationship, the interaction of form and content, and the expressive potential of the human figure will be explored. Students who repeat this course will improve skills through further instruction and practice.	Techniques for innovation and development of animated characters. Observation of details for drawings of character attitude, personality, movement, posing, point-of-view, dialog/mouth positions, body language, and development of consistent drawing techniques for model sheets. Students who repeat this course will improve skills through further instruction and practice.
examined in their cultural contexts. An honors course designed to provide an enriched experience. Students may not receive credit for both AHIS 12 (formerly ARTA 12) and AHIS 12H.	ANIM 108 — Principles of Animation3 Units(May be taken four times for credit.)Degree Appropriate, CSU36 hours lecture.72 hours lab.Explores the principles of drawing for traditional animation	ANIM 117 — Animation Background Layout (May be taken four times for credit.) Degree Appropriate, CSU 36 hours lecture. 72 hours lab.
AHIS 99 — Special Projects in Art History2 Units(May be taken four times for credit.)Degree Appropriate, CSU(May be taken for option of letter grade or Credit/No Credit.)36 hours lab.36 hours lab.Advisory: AHIS 1 (formerly ARTA 1)To offer selected students recognition for their academic interests and	concentrating on the mechanics of movement, timing, and emotion for the creation of expressive line drawings. Students who repeat this course will improve skills through further instruction and practice. ANIM 109 — Advanced Principles of Animation (May be taken four times for credit.) Degree Appropriate	Prerequisite: ANIM 115 or ARTD 16 Basic principles of design and composition as applied to layout and background design for animation. Drawing and painting techniques exploring rendering, modeling, light logic, perspective, color, space and environments are included. Students who repeat this course will improve skills through further instruction and practice.
ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer special projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced. ART: ANIMATION	36 hours lecture. 72 hours lab. <i>Prerequisite: ANIM 108</i> Advanced principles of animation including mechanics of motion, weighted movement, lip sync and expression applied to story, staging, and character development. Focus will be on the animated film process from script to storyboards, timing sheets, key posing, inbetweening and clean up through the completion of a final animation. Students who repeat this course will improve skills through further instruction and practice.	ANIM 118 — Background Painting 3 Units (May be taken three times for credit.) Degree Appropriate 36 hours lecture. 72 hours lab. Analysis and production of environments for scenes in animation. Emphasis on the study of light logic and color as they pertain to the creation of atmosphere, mood and environments. Students who repeat this course will improve skills through further instruction and practice.
ANIM 101 — Drawing – Gesture and Figure3 Units(May be taken four times for credit.)Degree Appropriate, CSU36 hours lecture.72 hours lab.72 hours lab.Explores contemporary and traditional approaches to sketching basic objects and the human figure using drawing techniques for rapid visualization. Emphasizes and develops perceptual and technical skills for capturing basic visual mechanics of motion and gesture. Students who repeat this course will improve skills through further instruction and practice.	ANIM 111 — Animal Drawing1.5 Units(May be taken two times for credit.)Degree Appropriate18 hours lecture.36 hours lab.36 hours lab.Prerequisite: ARTD 15A or ANIM 4 or ANIM 104Explores both traditional and contemporary approaches to sketchingand drawing animals. Gesture, anatomical structure, proportion, line andaction analysis will be explored. Requires several off-campus field trips.Students who repeat this course will improve skills through furtherinstruction and practice.	ANIM 119 — Portfolio1.5 Units(May be taken four times for credit.)Degree Appropriate18 hours lecture.36 hours lab.36 hours lab.Advisory: ANIM 115 and ANIM 116Production of a portfolio representative of student interest, strength and skillfor entry into animation fields, professional schools, or baccalaureate institu-tions. Selection of work for a portfolio will be determined by requirements ofthe animation specialty and institution to which it is directed. Students whorepeat this course will improve skills through further instruction and practice.

ANIM 120 — Script Development for Animation (May be taken four times for credit.) 3 Units 54 hours lecture. Degree Appropriate 54 nours lecture. Creative and problem solving processes as applied to story and script development. Scripts screenplays, live action and animated film, and the practical application of story adaptation to screenplay. Students who repeat this course will improve skills through further instruction and practice. ANIM 120 Introduction to 3 D Computer Apimation	ANIM 136 — Animation Environment Layout3 Units(May be taken four times for credit.)Degree Appropriate36 hours lecture.72 hours lab.72 hours lab.Advisory: ANIM 132Create a digital 3D environment. Design, model, texture, and light a3D digital environment for a computer graphics game, TV program orfilm. Students who repeat this course will improve skills through furtherinstruction and practice.	ANIM 145 — Advanced 3-D Modeling 3 Units (May be taken four times for credit.) Degree Appropriate 36 hours lecture. 72 hours lab. Advisory: ANIM 132 An advanced course in 3-D modeling with a focus on designing, modeling, and rigging a character for animation. Students who repeat this course will improve skills through further instruction and practice. ANIM 146 Advanced 3 D Animation
ANIM 130 — Introduction to 3-D Computer Animation3 Units(May be taken four times for credit.)Degree Appropriate36 hours lecture.72 hours lab.72 hours lab.Explores 3-D computer animation interfaces, use of polygons, perspective views, contouring, links, external processors for special computer effects, and using the Alias MAYA software. 3-D modeling, rendering, and animation of primitive and complex poly-spline meshes used in environments, and following a storyboard developed for scene sequencing are included. Students who repeat this course will improve	ANIM 137A — Work Experience in New Digital Media 1 Unit (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.) 75 hours lab. 75 hours lab. Advisory: Completion of the first and second semester of the Animation Program This course provides college credit and instructional guidance in conjunction with work experience in areas of New Digital Media at an approved worksite related to a certificate or degree program of study.	ANIM 146 — Advanced 3-D Animation 3 Units (May be taken four times for credit.) Degree Appropriate 36 hours lecture. 72 hours lab. Advisory: ANIM 132 Animation of a pre-selected 3-D dynamic environment project and development of characteristics and personality of 3-D characters through animation. Students who repeat this course will improve skills through further instruction and practice. ANIM 148 Dame Real
skills through further instruction and practice. ANIM 132 — Modeling, Texture Mapping and Lighting 3 Units (May be taken four times for credit.) Degree Appropriate 36 hours lecture. 72 hours lab. Advisory: ANIM 130 Explores 3-D poly-spline modeling and texture mapping and rendering	A minimum of five hours per week of supervised work (60 non-paid clock hours or 75 paid clock hours per semester) is required for each one unit of credit. Students who repeat this course will improve skills through further instruction and practice. ANIM 137B — Work Experience in New Digital Media 2 Units (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.)	ANIM 148 — Demo-Reel 1.5 Units (May be taken four times for credit.) Degree Appropriate 18 hours lecture. 36 hours lab. Prerequisite: ANIM 130 Production of a demo-reel representative of student interest, strength and skill for entry into animation fields, professional schools or baccalaureate institutions. Students who repeat this course will improve
for realistic perspective, reflections, transparency, and background and environmental building using the Alias MAYA software. Includes camera animation with stage and environmental scenes featuring fly-throughs and colored lighting effects. Students who repeat this course will improve skills through further instruction and practice. ANIM 134 — Visual Effects I: Dynamics (May be taken four times for credit.) Degree Appropriate 18 hours lecture.	 150 hours lab. Advisory: Completion of the first and second semester of the Animation Program This course provides college credit and instructional guidance in conjunction with work experience in areas of New Digital Media at an approved worksite related to a certificate or degree program of study. A minimum of five hours per week of supervised work (60 non-paid clock hours or 75 paid clock hours per semester) is required for each 	skills through further instruction and practice. ANIM 172 — Motion Graphics With After Effects 3 Units (May be taken four times for credit.) Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 72 hours lab. Prerequisite: ARTC 70 Explores the creative and technical processes for building motion-
36 hours lecture. 36 hours lab. Advisory: ANIM 132 Advanced course exploring the animation techniques called dynamics. Covers building material for 3-D objects using bitmaps to create texture maps and using light effects in 3-D computer environments. Students who repeat this course will improve skills through further instruction and practice.	one unit of credit. Students who repeat this course will improve skills through further instruction and practice. ANIM 137C — Work Experience in New Digital Media 3 Units (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.) 225 hours lab. Advisory: Completion of the first and second semester of the Animation	graphics using After Effects and/or other industry appropriate software. 2D and 3D compositing, animation, audio/visual effects, editing and rendering of motion-graphics for video, CD and DVD formats will be taught. Students who repeat this course will improve skills through further instruction and practice. ANIM 175 — Web Animation With Flash 3 Units
ANIM 135 — Visual Effects II: Particle Systems1.5 Units(May be taken four times for credit.)Degree Appropriate18 hours lecture.36 hours lab.36 hours lab.Advisory: ANIM 134Advanced course in the creation of computer animated particle systemsthat imitate the natural forces of nature, the physical forces of theuniverse and plasma forces of combustion. Students who repeat thiscourse will improve skills through further instruction and practice.	Program This course is designed to provide college credit and instructional/advisory guidance in conjunction with actual on-the-job experience in areas of New Digital Media at an approved worksite related to a certificate or degree program of study. A minimum of five hours per week of supervised work (60 non-paid clock hours or 75 paid clock hours per semester) is required for each one unit of credit. Students who repeat this course will improve skills through further instruction and practice.	(May be taken two times for credit.)Degree Appropriate36 hours lecture.72 hours lab.72 hours lab.Prerequisite: ARTC 70Principles and design considerations of animation for the Web will be explored and developed through use of professional Web animation software. Students who repeat this course will improve skills through further instruction and practice.

Section 10 123

ART: BASIC STUDIO ARTS ARTB 1 — Understanding the Visual Arts 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Prerequisite: Eligibility for ENGL 68 Fundamentals of visual art forms and the role art plays in various historical periods and cultures. Students may not earn credit for both ARTB 1 and AHIS 1.	ARTC 74 — Computer Graphics: Web Design 3 Units (May be taken two times for credit.) Degree Appropriate, CSU 36 hours lecture. 72 hours lab. <i>Prerequisite: ARTC 70</i> <i>Advisory: COMP 13</i> Professional design concepts applied to the common elements of Web site design and development including page and site design usability	75 paid clock hours or 60 non-paid clock hours per semester is required for each unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice. ARTC 78C — Work Experience in Advertising Design/ Illustration 3 Units (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.)
ARTB 14 — Basic Studio Arts 3 Units 36 hours lecture. Degree Appropriate, CSU, UC 72 hours lab. Prerequisite: Eligibility for ENGL 68 An entry level course designed for non-art majors emphasizing creative expression through the visual arts. Painting, drawing, printmaking and sculpture are explored to introduce the student through various media to the arts. ART: CAREER ARTS & GRAPHIC DESIGN ARTC 60 — Graphic Design: Lettering and Typography 3 Units	site design and development including page and site design, usability, editing and formatting, graphics preparation, multimedia technologies, tables, forms, frames, cascading style sheets (CSS). An emphasis will be placed on the exploration of new tools and concepts of Web design including Flash navigation, interactivity, animation, and video. Students who repeat this course will improve skills through further instruction and practice. ARTC 77 — Computer Graphics: Illustration (May be taken two times for credit.) 36 hours lecture. 72 hours lab.	 formatting, graphics preparation, multimedia technologies, s, frames, cascading style sheets (CSS). An emphasis will be exploration of new tools and concepts of Web design is navigation, interactivity, animation, and video. Students this course will improve skills through further instruction. Computer Graphics: Illustration as two times for credit.) Degree Appropriate ture. D
36 hours lecture.Degree Appropriate, CSU, UC72 hours lab.Prerequisite: Eligibility for ENGL 68An entry level course emphasizing creative expression through avariation of design concepts, letter forms and style variation. Emphasisis placed on tools and techniques as applied to comprehensive graphicdesign images.	Basic principles of art, design and color. Theory as applied to digital hand illustration will be explored and original illustrations created through use of professional illustration software. Students who repeat this course will improve skills by further instruction and practice. ARTC 78A — Work Experience in Advertising Design/ Illustration 1 Unit	ARTC 161 — Graphic Design: Layout 3 Units Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 72 hours lab. Prerequisite: ARTC 60 An introduction to the graphic design process with an emphasis on
ARTC 66 — Portfolio 3 Units 36 hours lecture. Degree Appropriate 72 hours lab. Prerequisite: Completion of a minimum of 15 semester units in Advertising Design, Architectural Design, Art, Fashion Merchandising, Industrial Design, Interior Design or Photographics. This course aids individuals from any of the visual art disciplines to assemble a portfolio, book, or package of works of art (that represents their individual development, interests and/or strengths) for use to enter a four-year institution, professional art school, or a professional	 (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.) 75 hours lab. Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog Advisory: ARTC 66, ARTC 70, ARTC 74, ARTC 171 Provides students with on-the-job experience in advertising design, illustration and other graphic design and related areas in an approved worksite which is related to classroom-based learning. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each unit of credit. It is recommended that the hours per week are 	visual communication strategies that explore type and image, layout and design development, and the use of symbols related to the field of advertising and graphic design. The course uses various traditional media and layout design-related software to explore concept utilization and production, visualization, and professional presentation techniques. ARTC 165 — Illustration 3 Units (May be taken two times for credit.) Degree Appropriate, CSU 36 hours lecture. 72 hours lab. <i>Corequisite: ARTD 20 or ARTD 15A or ANIM 104 or ARTD 17A or ANIM 101</i>
field of choice. ARTC 70 — Computer Graphics: Introduction 3 Units Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 72 hours lab. Introduces basic art, design and color theory principles to the application of 2-dimensional computer graphics. Explores basic computer concepts applied to graphic projects utilizing professional imaging software programs. Introduces the use of color scanner, digitized artist tablet, laser and color printers. Software: Adobe Photoshop, Adobe Illustrator.	nits course will improve skills through further instruction and practice. Introduction to contemporary illustration with an empeditorial, and advertising applications. Course covers the ditorial, and advertising applications. Course covers the ditorial, and advertising applications in traditional draw media, paper, and their integration to electronic media illustration software, peripherals, and color laser printit to produce more complex illustrations. Students who not contemporary illustration with an empeditorial, and advertising applications.	<i>(May have been taken previously)</i> Introduction to contemporary illustration with an emphasis on story, editorial, and advertising applications. Course covers the proper uses of illustrative rendering techniques in traditional drawing and painting media, paper, and their integration to electronic media. Using professional illustration software, peripherals, and color laser printing, students advance to produce more complex illustrations. Students who repeat this course will improve skills through further instruction and practice.

ARTC 171 — Computer Graphics 2: Advanced Layout 3 Units	ARTG 21B — Intermediate Exhibition Production 3 Units	ART: SPECIAL STUDIO ARTS
and Design (May be taken two times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 72 hours lab. Prerequisite: ARTC 70 Advanced visual communication strategies related to digital layout and design in Advertising and Graphic Design. Introduces page layout, and image processing in preparation of newsletters, brochures, posters, and advertising collateral. Emphasis is placed on clarity of communication, design and technical skills. Software: Adobe Creative Suite, QuarkXpress. Students who repeat this course will improve skills through further instruction and practice.	(May be taken two times for credit.) Degree Appropriate, CSU 36 hours lecture. 72 hours lab. Prerequisite: ARTG 21A Provides increasing responsibility in exhibition planning, research, operation and management. Focuses on art as a profession with emphasis on historical/contemporary terms, theories, movements and media in the context of an art exhibition production. Students who repeat this course will improve skills through further instruction and practice. ARTG 22A — Exhibition Design and Art Gallery Operation Work Experience 1 Unit	ARTZ 50 — Specialized Studio-Art Studies 2 Units (May be taken four times for credit.) Degree Appropriate, CSU, UC 18 hours lecture. 54 hours lab. <i>Prerequisite: Satisfactory completion of all courses within a given art emphasis</i> Extended studio experiences supplementary to those available in the courses within a given art emphasis and allows the student to pursue more advanced and complex studio projects and experiments. Emphasis is placed upon the development of an individual creative direction. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced.
ARTC 172 — Computer Graphics – Multimedia 3 Units	(May be taken two times for credit.) Degree Appropriate 75 hours lab.	ART: THREE-DIMENSIONAL STUDIO ARTS
 (May be taken two times for credit.) Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 72 hours lab. Prerequisite: ARTC 70 An introduction to multimedia design and basic animation using Macromedia Director. Introduces text and sound editing, image manipulation, and interactive design principles in the preparation of presentations, animations, and informational kiosks. Emphasis is placed 	Prerequisite: ARTG 20, ARTG 21A, ARTG 21B Provides on-the-job experience in exhibition design and art gallery operation in an approved work site which is related to classroom-based learning. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice.	ARTS 22 — Design: Three-Dimensional3 Units(CAN ART 16)Degree Appropriate, CSU, UC36 hours lecture.72 hours lab.Prerequisite: Eligibility for ENGL 68Develops perception and enhances decision making within thethree-dimensional world. Emphasis is placed on concept developmentand artistic expression utilizing principles and elements of three-dimensional design as well as practical experiments with various media.
on clarity of communication, design, and technical skills.	ARTG 22B — Exhibition Design and Art Gallery Operation 2 Units Work Experience	ARTS 30A — Ceramics: Beginning 3 Units
ART: GALLERY & PROFESSIONAL PRACTICES ARTG 20 — Art, Artists and Society 3 Units 36 hours lecture. Degree Appropriate, CSU 72 hours lab. Explores art as a creative process and the role of an artist in contemporary and past societies approached through analysis of art	(May be taken two times for credit.) Degree Appropriate 150 hours lab. Prerequisite: ARTG 20, ARTG 21A, ARTG 21B Provides on-the-job experience in exhibition design and art gallery operation in an approved work site which is related to classroom-based learning. A minimum of 75 paid clock hours or 60 non-paid clock hours	36 hours lecture. Degree Appropriate, CSU, UC 72 hours lab. Introduction to clay, glaze and firing through projects that employ techniques in hand building and on the wheel. Emphasis is on developing skills, vocabulary and analysis of form, function and aesthetics through projects and oral and written criticism.
exhibitions and artist's studio visitations. Emphasis on visual principles and content of historic and contemporary art works. Examines the dynamic and history of public art display and the nature of exhibition design with an overview of art movements, styles, symbols, theories and terms.	per semester is required for each one unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice. ARTG 22C — Exhibition Design and Art Gallery Operation 3 Units Work Experience	ARTS 30B — Ceramics: Beginning 3 Units Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 72 hours lab.
ARTG 21A — Introduction to Exhibition Production3 Units(May be taken two times for credit.)Degree Appropriate, CSU36 hours lecture.72 hours lab.Prerequisite: ARTG 20	(May be taken two times for credit.) Degree Appropriate 225 hours lab. <i>Prerequisite: ARTG 20, ARTG 21A, ARTG 21B</i> Provides on-the-job experience in exhibition design and art gallery operation in an approved work site which is related to classroom-based	Prerequisite: ARTS 30A A continuation into the study of clay, glazes and firing, developing skills introduced in ARTS 30A. Emphasis is on more advanced techniques, using larger amounts of clay and developing the aesthetics of design through form, function and surface treatment.
Designed to familiarize all art majors and serious artists with the concepts and hands-on applications of curatorial processes, management skills, and gallery operations. Explores the professional side of the arts, emphasizing contemporary art, theories and media. Students who repeat this course will improve skills through further instruction and practice.	learning. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice.	ARTS 31A — Ceramics: Intermediate3 Units36 hours lecture.Degree Appropriate, CSU, UC72 hours lab.Prerequisite: ARTS 30BIntegrating materials and design through advanced problems in the techniques of clay construction, glazing and firing.

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ARTS 31B — Ceramics: Intermediate3 Units36 hours lecture.Degree Appropriate, CSU, UC72 hours lab.Prerequisite: ARTS 31AA continuation of ARTS 31A, examining the problems of aesthetically integrating materials and design by means of advanced problems in the technique of clay construction, glazing and firing. Emphasis is on inte- grating form and content, mixing glazes and the variety of firing processes.	ARTS 42 — Sculpture: Mold Making3 Units(May be taken two times for credit.)Degree Appropriate(May be taken for option of letter grade or Credit/No Credit.)36 hours lecture.36 hours lecture.72 hours lab.Construction and use of flexible and plaster molds. Students who repeatthis course will improve skills by further instruction and practice.ARTS 46 — Sculpture: Special Effects Makeup3 Units	ARTD 17A — Drawing: Life3 Units36 hours lecture.Degree Appropriate, CSU, UC72 hours lab.Prerequisite: ARTD 15A or ANIM 104Explores both contemporary and traditional approaches to sketching/ drawing the human figure. Surface anatomy, proportion, line, light and shadow, composition, and the expressive potential of the human figure will be explored.
ARTS 33 — Ceramics: Hand Construction3 Units36 hours lecture.Degree Appropriate, CSU, UC72 hours lab.Introduction to clay, glazes and firing through projects that are handbuilt. Emphasis is on developing skills and vocabulary and analysis ofform, function, aesthetics and craftsmanship through projects,discussion and oral/written criticism.discussion and oral/written criticism.	 (May be taken two times for credit.) Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 72 hours lab. Advisory: ARTS 41 and/or ARTS 42 Modeling, molding, casting and application of special effects makeup appliances and masks to the human figure. Emphasis on human 	ARTD 17B — Drawing: Life3 Units36 hours lecture.Degree Appropriate, CSU, UC72 hours lab.Prerequisite: ARTD 17AExtends and expands the principles and techniques introduced in ARTD17A. More emphasis is placed on personal interpretation, individualexpression, and media exploration.
ARTS 40A — Sculpture: Beginning3 Units(CAN ART 12)Degree Appropriate, CSU, UC36 hours lecture.72 hours lab.An overview of traditional and contemporary approaches to sculpture.Emphasizes principles of sculptural design and concept developmentIncludes exploration of technique and materials as an integral part of creative expression.	anatomy as it informs sculptural form and specialized molding and casting techniques and materials. Students who repeat this course will improve skills by further instruction and practice. ART: TWO-DIMENSIONAL STUDIO ARTS ARTD 15A — Drawing: Beginning (CAN ART 8) Begree Appropriate, CSU, UC 36 hours lecture.	ARTD 20 — Design: Two Dimensional3 Units(May be taken two times for credit.)Degree Appropriate, CSU, UC36 hours lecture.72 hours lab.Development of perception through study of the relationships of two- dimensional dynamics and organization. Emphasis is placed on the vocabulary, theory, and analysis of the formal elements and principles of all forms of art through lecture, discussion, oral and written criticism
ARTS 40B — Sculpture: Beginning3 Units(May be taken two times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)36 hours lecture.72 hours lab.72 hours lab.	72 hours lab. An entry level course emphasizing creative expression through the use of drawing media. Emphasis is placed on basic drawing methods and skills, composition and exploration of drawing media. ARTD 15B — Drawing: Beginning 3 Units	and testing as they apply to studio projects in design for all disciplines of the arts. Study will emphasize the fundamental organization and workings of the two-dimensional picture plane in black/white and achromatic value and basic color mixing. Students who repeat this course will improve skills through further study and practice.
Prerequisite: ARTS 40A Advanced projects in subtractive, additive and manipulative approaches are explored. Students who repeat this course will improve skills by further instruction and practice. ARTS 41A — Sculpture: Life 3 Units 26 hours location 3 Units	36 hours lecture. Degree Appropriate, CSU, UC 72 hours lab. <i>Prerequisite: ARTD 15A</i> Drawing emphasizing further development of perceptual and technical skills attained in ARTD 15A. Students will advance their abilities in dry and fluid media, while expanding their use of the formal elements and minimize in background their use of the formal elements and	ARTD 21 — Design: Color and Composition3 UnitsSpring SemesterDegree Appropriate, CSU, UC(CAN ART 22)(May be taken two times for credit.)36 hours lecture.72 hours lab.
36 hours lecture.Degree Appropriate, CSU, UC72 hours lab.Modeling from the human figure with emphasis on composition,gesture, motion and human anatomy as it informs sculptural form.Development of perceptual and technical skills in clay modeling fromthe human figure.	principles in both representational and expressionistic styles. ARTD 16 — Drawing: Perspective 3 Units Spring Semester Degree Appropriate, CSU, UC (May be taken two times for credit.) 36 hours lecture. 72 hours lab.	Prerequisite: ARTD 20 or equivalency determined by a portfolio review Synthesizes color theory and relationships of pigment and light. Emphasis will be placed on fundamental color harmonies, color matching, the effects of light, color perception and expression in their application to design and composition and as they are used in all other disciplines of the arts.
ARTS 41B — Sculpture: Life3 Units(May be taken four times for credit.)Degree Appropriate, CSU, UC36 hours lecture.72 hours lab.72 hours lab.Prerequisite: ARTS 41ASculptural study of the human figure with emphasis on compositionand human anatomy. Advanced projects using materials and techniquessuitable for the human form. Students who repeat this course will furtherdevelop perceptual skills in clay modeling from the human figure.	Prerequisite: ARTD 15A or ANIM 104 Drawing using the elements and principles of linear perspective with lights and shadows to represent natural and fabricated forms. Emphasizes methods and techniques directly related to the artist's needs. Students who repeat this course improve skills through further instruction and practice.	ARTD 23A — Drawing: Head and Hands1.5 Units(May be taken two times for credit.)Degree Appropriate, CSU, UC18 hours lecture.Degree Appropriate, CSU, UC36 hours lab.Prerequisite: ARTD 15A or ANIM 104Contemporary and traditional approaches to constructing images of the human head and hands. Anatomy, proportion, light logic, composition, expression and the interaction of form and content. Students who repeat this course will improve skills through further instruction and practice.

ARTD 25A — Painting: Beginning (CAN ART 10) Degree Appropriate, CSU, UC 36 hours lecture. 72 hours lab.	are emphasized as well as other related methods and new technologies. Students who repeat this course will improve skills through further instruction and practice. ARTD 44 — Printmaking: Relief and Lithography 3 Units	ASTR 8 — Introduction to Stars, Galaxies, and the Universe 3 Units 54 hours lecture. Degree Appropriate, CSU Introduction to astronomy with emphasis on the structure and evolution of stars, galaxies, and the universe. Field trips required.
Emphasizes creative self-expression through the painting media. Students will develop the ability to conceptualize and solve compositional and technical painting problems.	(CAN ART 20) Degree Appropriate, CSU, UC ARTD 43 OR ARTD 44 = CAN ART 20 (May be taken two times for credit.) 36 hours lecture.	ASTR 90T — Topics in Astronomy 3 Units (May be taken four times for credit.) Degree Appropriate 54 hours lecture.
ARTD 25B — Painting: Beginning3 Units36 hours lecture.Degree Appropriate, CSU, UC72 hours lab.Prerequisite: ARTD 25AAn extension and expansion of principles and techniques introduced inARTD 25A. More emphasis is placed on personal approach andindividual expression.	72 hours lab. Prerequisite: ARTB 14 or ARTD 15A or ARTD 17A or ARTD 20 Development of the creative techniques of making fine art original prints using the processes of relief and planography hand printing. Woodcuts, linoleum cuts, monotypes, embossments, collographs, stone and aluminum plate lithography are explored. Students who repeat this course will improve skills through further instruction and practice.	Explores various topics of astronomy.ASTR 99 — Special Projects in Astronomy2 UnitsSpring SemesterDegree Appropriate, CSU(May be taken four times for credit.)36 hours lecture.36 hours lecture.In order to offer selected students recognition for their academic interests and ability, and the opportunity to explore their disciplines to
ARTD 26A — Painting: Intermediate3 Units36 hours lecture.Degree Appropriate, CSU, UC72 hours lab.Prerequisite: ARTD 25BDevelop a working knowledge of painting media. Painting problems are studied in order to broaden the student's knowledge of painting organization.	ARTD 45 — Printmaking: Silk-Screening 3 Units (May be taken two times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 72 hours lab. Prerequisite: ARTB 14 or ARTD 15A or ARTD 17A or ARTD 20	greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Student must have instructor's authorization before enrolling in this class. Students who repeat this course will improve skills through further instruction and practice.
ARTD 26B — Painting: Intermediate3 Units36 hours lecture.Degree Appropriate, CSU, UC72 hours lab.Prerequisite: ARTD 26AExtends and expands the principles, techniques and painting problemsthat were introduced in ARTD 26A. More emphasis is placed on personalapproach and expression.	An intensive study in the use of silk-screening as an art form. Tusche- glue, direct block cuts, paper and lacquer stencils, and photographic method will be emphasized. Students who repeat this course will improve skills through further instruction and practice. ASTRONOMY ASTR 5 — Introduction to Astronomy 3 Units	BIOLOGY BIOL 1 — General Biology 4 Units 54 hours lecture. Degree Appropriate, CSU, UC 54 hours lab. Prerequisite: Eligibility for ENGL 68 An introduction to the major principles and concepts of biology,
ARTD 27 — Painting: Watercolor 3 Units (May be taken two times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.)	54 hours lecture. Degree Appropriate, CSU, UC <i>Prerequisite: Eligibility for ENGL 1A</i> A non-technical survey of the universe. Fundamental concepts and facts of astronomy. Topics include the origin and evolution of planets, stars, and	including cellular biology, energy relationships, biological systems, heredity, evolution and ecology. BIOL 1 is recommended for non-majors. BIOL 4 is recommended for biology majors and those majors requiring a more rigorous biology background.
36 hours lecture. 72 hours lab. <i>Prerequisite: ARTD 15A OR ARTD 20 OR ARTD 25A</i> Basic watercolor techniques as they relate to compositional and technical problems in painting. Emphasis is placed upon painting skills as related to transparent watercolor methods as well as exploration into opaque and mixed-media approaches. Students who repeat this course will improve skills through further instruction and practice.	galaxies; results of space exploration and modern cosmology. Enroll in ASTR 5L to receive laboratory science credit. Field trips may be required. ASTR 5L — Astronomical Observing Laboratory 1 Unit 54 hours lab. Degree Appropriate, CSU, UC Corequisite: ASTR 5 OR 7 OR 8 (May have been taken previously) Provides practical experience in astronomy including use of telescopes and demonstrations in the college planetarium. Occasional evening observing	BIOL 2 — Plant and Animal Biology 4 Units 54 hours lecture. Degree Appropriate, CSU, UC 54 hours lab. Prerequisite: BIOL 1 or BIOL 4; and MATH 71 or 2 years of high school algebra (C or better) Basic structures and functions of plants and animals including concepts in systematics, evolution, physiology, ecology, and biotic relationships.
ARTD 43 — Printmaking: Silk-Screen and Intaglio3 Units(CAN ART 20)Degree Appropriate, CSU, UC(ART 43 or ART 44 equals CAN ART 20)(May be taken two times for credit.)(May be taken for option of letter grade or Credit/No Credit.)36 hours lecture.72 hours lab.Prerequisite: ARTB 14, or ARTD 15A, or ARTD 17A, or ARTD 20Techniques of making fine-art original prints using the processes of stencil and intaglio hand printing. Screen prints, etchings, and aquatints	sessions with the telescopes and other field trips are required. ASTR 7 — Geology of the Solar System 3 Units 54 hours lecture. Degree Appropriate, CSU A study of the Earth-like planets, satellites, and meteorites, from a geological point of view. Surveys geological methods and their application to the study of cratering, tectonic and volcanic activity, weathering, rock formation, landsliding, erosion, faulting, etc. Emphasis on solar system bodies other than Earth. Field trips may be required.	BIOL 3 — Ecology and Field Biology 4 Units 54 hours lecture. Degree Appropriate, CSU, UC 54 hours lab. Identification and ecological relationships of common local plants and animals. Emphasizes evolutionary relationships; ecology including animal behavior, communities, ecosystems, wilderness and wildlife preservation, and population dynamics. Techniques of collecting and preserving. Many laboratory meetings conducted off campus; most trips require walking/ hiking. Includes one weekend and one all day field trip.

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BIOL 4 — Biology for Majors4 Units(CAN BIOL 2)Degree Appropriate, CSU, UCBIOL 4 + ZOOL 1 + BTNY 3 = BIOL SEQ A54 hours lecture.54 hours lab.18 hours activity.Prerequisite: CHEM 10 or CHEM 40 or one year of high school chemistry	Most laboratory meetings will be conducted at off-campus locations. Some trips will require significant amounts of walking. Course includes one weekend field trip. BIOL 8 — Cell and Molecular Biology 4 Units 54 hours lecture. Degree Appropriate, CSU, UC 54 hours lab. Prerequisite: BIOL 4 or BIOL 4H, and CHEM 50	BIOL 17 — Neurobiology and Behavior 3 Units 54 hours lecture. Degree Appropriate, CSU, UC An integrated analysis of the biological, ecological and evolutionary bases of behavior (ethology). Historical and evolutionary contexts are emphasized through a detailed consideration of the psychobiological, ecological, ontological and sociobiological determinants of animal behavior. Field trip required.
(C or better), AND MATH 71 or two years of high school algebra (C or better) or equivalent Examines core principles of biology required for advanced study, including concepts of cellular and molecular biology, bioenergetics, genetics, reproduction, evolution, biodiversity, and ecology. Includes one hour discussion group per week.	Introduction to cell and molecular biology including eukaryotic cells, eukaryotic organelles, protein structure and functions; DNA and RNA structure and functions; protein synthesis; genome organization in viruses, prokaryotes and eukaryotes; gene cloning; protein and DNA technology and applications of genetic engineering. BIOL 12A — Natural History of California 3 Units	BIOL 20 — Marine Biology 3 Units 54 hours lecture. Degree Appropriate, CSU, UC An introduction to the marine environment including the principles of marine science, biology of marine invertebrates and vertebrates, structure and function of marine ecosystems, and human impact on the ocean. Field trip required.
BIOL 4H — Biology for Majors – Honors 4 Units (CAN BIOL 2) Degree Appropriate, CSU, UC BIOL 4H + ZOOL 1 + BTNY 3 = CAN BIOL SEQ A 54 hours lecture. 72 hours lab. Prerequisite: Acceptance into the Honors Program; CHEM 10 or one year of high school chemistry (C or better), AND MATH 71 or two years of high school algebra (C or better) or equivalent.	Fall Semester Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 54 hours lab. Field study of the natural history of the Sierra Nevada and adjacent regions. One 3-day and one 4-day weekend field trip will be required. Students may not receive credit for both BIOL 12A and GEOL 12A.	BIOL 21 — Marine Biology Laboratory 1 Unit 54 hours lab. Degree Appropriate, CSU, UC <i>Corequisite: BIOL 20 (May have been taken previously)</i> An introduction to the field and laboratory aspects of the marine environment. Emphasizes the structure and functional biology of marine invertebrates and vertebrates, ecology of intertidal organisms and ecology of estuaries. Field trips required.
Explores core principles of biology required for advanced study, including concepts of cellular and molecular biology, bioenergetics, genetics, reproduction, evolution, biodiversity and ecology. An honors course designed to provide an enriched experience for accelerated students. Students may not receive credit for both BIOL 4 and BIOL 4H.	BIOL 12B — Natural History of California 3 Units Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 54 hours lab. Field study of Peninsular Ranges, Transverse Ranges, Mojave and	BIOL 99A — Special Projects in Biology 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU 18 hours lecture. In order to offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to
BIOL 5 — Contemporary Health Issues3 Units54 hours lecture.Degree Appropriate, CSU, UCProvides an overview of contemporary health issues known to affectthe quality and longevity of life. Topics include: sexuality andreproduction, stress management, fitness and nutrition, substance useand abuse, and environmental quality. Emphasis is on prevention ofillness and injuries. May satisfy the Health Education requirement for a	Colorado Deserts of Southern California. Laboratory work is done during one 3-day and one 4-day weekend field trip. Students may not receive credit for both BIOL 12B and GEOL 12B. BIOL 13 — Human Reproduction, Development and Aging 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Prerequisite: Eligibility for ENGL 68	greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students must have an instructor's authorization before enrolling in this course. Students repeating this course will make individual contracts of a more advanced nature with the instructor to insure that proficiencies are enhanced.
BIOL 6 — Humans and the Environment 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Prerequisite: Eligibility for ENGL 68 Degree Appropriate, CSU, UC	Provides a basic understanding of human development, from conception to death. Conception, growth, maturation and aging are studied as a natural continuum, influenced by our bio-physical and psycho-social environment. Several off-campus sites related to course content will be visited.	BIOL 99B — Special Projects in Biology2 Units(May be taken four times for credit.)Degree Appropriate, CSU36 hours lecture.In order to offer selected students recognition for their academicinterests and ability and the opportunity to explore their disciplines to
Ecological concepts to aid understanding our environmental crisis and determining courses of action to correct the problem. Emphasis will be placed on specific problems of population, pollution, preservation of wildlife and wilderness, and open space. A historical appraisal of human attitudes toward the land and of the necessity of developing a new land ethic.	BIOL 15 — Human Sexuality3 Units54 hours lecture.Degree Appropriate, CSU, UCPrerequisite: Eligibility for ENGL 68A survey of the biological, behavioral, cultural and ethical aspects ofhuman sexuality.	greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students must have an instructor's authorization before enrolling in this course. Students repeating this course will make individual contracts of a more advanced nature with the instructor to
BIOL 6L — Humans and the Environment Laboratory2 Units108 hours lab.Degree Appropriate, CSU, UCCorequisite: BIOL 6 (May have been taken previously)Investigates major principles and problems of humans and the environment in the field and in the biological science laboratory.	BIOL 15H — Human Sexuality – Honors3 Units54 hours lecture.Degree Appropriate, CSU, UCPrerequisite: Acceptance into the Honors ProgramA survey of the biological, behavioral, cultural and ethical aspects of humansexuality. An honors course designed to provide an enriched experience.Students may not receive credit for both BIOL 15 and BIOL 15H.	insure that proficiencies are enhanced.

BOTANY BTNY 3 — Plant Structures, Functions, and Diversity 5 Units Spring Semester Degree Appropriate, CSU, UC (CAN BIOL 6) BIOL 4 + ZOOL 1 + BTNY 3 = CAN BIOL SEQ A 54 hours lecture. 108 hours lab. Advisory: BIOL 1 or BIOL 4. Eligibility for ENGL 1A. Completion of one year	BUSA 21 — Cost Accounting 4 Units 72 hours lecture. Degree Appropriate 18 hours lab. Prerequisite: BUSA 8 Practical and theoretical concepts of cost accounting. Includes variable and fixed costs, cost-volume-profit analysis, job order and process costing, activity-based costing, general and flexible budgeting, standard costs, product costing/pricing methods, cost allocation, inventory management, capital budgeting, and transfer pricing.	
of high school chemistry (C or better) or equivalent. An introduction to the structures, functions and comparative morphology, and phylogenetic relationships of organisms from bacteria to angiosperms with an emphasis on ethnobotany, evolution, classification, ecology and conservation. Several laboratory meetings are mandatory field trips, conducted off-campus, and students provide their own transportation.	BUSA 52 — Intermediate Accounting 3 Units 54 hours lecture. Degree Appropriate Prerequisite: BUSA 8 Detailed review of basic accounting concepts and principles and an in-depth analysis of the balance sheet and income statement. Emphasis is placed on the changing nature of principles and practices, the	90 hours lecture. Degree Appropriate <i>Prerequisite: BUSA 68 or eligibility for MATH 50</i> Fundamental bookkeeping and accounting principles including the accounting cycle for service and merchandising companies, cash management, payroll and special journals. Computerized simulations and completion of a practice set will be required.
BUSINESS: ACCOUNTING BUSA 7 — Principles of Accounting – Financial 5 Units 90 hours lecture. Degree Appropriate, CSU, UC	application of present-value concepts, the complexity of transactions that arise in a complex economic environment and the use of accounting information in decision making.	BUSA 75 — Using Microcomputers in Financial Accounting 1 Unit 18 hours lecture. Degree Appropriate <i>Prerequisite: BUSA 7 or BUSA 72</i> Application of basic accounting concepts utilizing a computerized ledger software program. Hands-on use of a microcomputer to process
Prerequisite: BUSA 11 or eligibility for MATH 51 Advisory: Eligibility for ENGL 1A Introduction to financial accounting required of all Business Administration and Accounting majors which provides the foundation	BUSA 53 — Ten-Key Calculations2 Units18 hours lecture.Degree Appropriate54 hours lab.Prerequisite: BUSA 68 or eligibility for MATH 50Operation of electronic calculators by the touch method to solve	accounting transactions, prepare statements and reports, and complete accounting cycle tasks. Completion of a computerized accounting practice set will be required.
for continued coursework in accounting. Includes accounting concepts and techniques essential to the administration of a business enterprise, analyzing and recording financial transactions, accounting valuation and allocation practices and the preparation, analysis and interpretation of financial statements. Gives the student the tools and methods needed	business and accounting problems. Focuses on the application of calculator features to specific business concepts including banking records, payroll, invoice pricing and inventory. BUSA 58 — Federal Income Tax Law 3 Units	BUSA 76 — Using Microcomputers in Managerial Accounting 1 Unit 18 hours lecture. Degree Appropriate <i>Prerequisite: BUSA 7 or BUSA 72</i> Analyze financial data and prepare managerial accounting reports using Excel software. Development of "what-if" formulas to be used as an aid
for decision making. BUSA 8 — Principles of Accounting – Managerial 5 Units	54 hours lecture. Degree Appropriate <i>Prerequisite: BUSA 7 or BUSA 72</i>	in decision-making. Manufacturing and consolidation worksheets, financial statement analysis, and statement of cash flows.
90 hours lecture. Degree Appropriate, CSU, UC <i>Prerequisite: BUSA 7</i> Review of managerial accounting, job and process costing, cost- volume-profit analysis, cost behavior analysis and use, cost allocation, the	Federal and state income tax laws as related to individuals, partnership and corporation taxation including interpretations of recent changes. Emphasis is placed on individual income taxes and related problems in research through the use of a federal tax reporting service.	BUSA 81 — Work Experience in Accounting (May be taken four times for credit.) (May be taken for Credit/No Credit only.) 75 hours lab.
budgeting process, responsibility accounting in a decentralized operation, standard costing, pricing decisions, relevant costs for decision making, segment reporting, variable costing, capital budgeting decisions, inventory management and analysis, and financial statement analysis. Gives the student the tools and methods needed for decision making.	BUSA 68 — Business Mathematics3 Units54 hours lecture.Pre-CollegiateReviews addition, subtraction, multiplication, division, decimals, percentages, fractions, sign numbers, equations and problem solving.	Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog Advisory: BUSA 7 or BUSA 72 Provides accounting students with actual on-the-job experience in an approved work site which is related to classroom-based learning. A
BUSA 11 — Fundamentals of Accounting 3 Units 54 hours lecture. Degree Appropriate Prerequisite: BUSA 68 or eligibility for MATH 50 Accounting vocabulary and theory, equations to solve word problems, percentages, simple and compound interest, payroll, business taxes, present value, investments, inventory, depreciation, financial statement analysis and ratios.	BUSA 70 — Payroll and Tax Accounting3 Units54 hours lecture.Degree AppropriatePrerequisite: Eligibility for BUSA 11Examines all areas of on-the-job payroll accounting. Surveys the varioustax procedures required by the employer and employee in filing the correct forms for Social Security, federal, and state income taxes and their reconciliation. Laws related to Worker's Compensation, state Disability Benefit Laws and Fair Employment Practices are discussed.	minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. Work experience placement is not guaranteed but assistance is provided. Students who repeat this course will improve skills through further instruction and practice.

Course Descriptions		
BUSA 83 — Work Experience in Accounting 2 Units (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.) 150 hours lab. Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog Advisory: BUSA 7 or BUSA 72 Provides accounting students with actual on-the-job experience in an approved work site which is related to classroom-based learning. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. Work experience placement is not guaranteed but assistance is provided. Students who repeat this course will improve their skills through further instruction and practice. BUSA 84 — Work Experience in Accounting 3 Units (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.) 225 hours lab. Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog Advisory: BUSA 7 OR BUSA 72 Provides accounting students with actual on-the-job experience in Degree Appropriate	BUSC 1AH — Principles of Economics – Macroeconomics – 3 Units Honors (CAN ECON 2) Degree Appropriate, CSU, UC 54 hours lecture. Prerequisite: Acceptance into the Honors Program Principles of aggregate economic analysis; economic cycles including recession, unemployment, inflation and economic growth; national income accounts; money and financial institutions; monetary and fiscal policy; alternative economic viewpoint; budget deficits and public debts; international trade and finance. An honors course designed to provide an enriched experience. Students may not receive credit for both BUSC 1A and BUSC 1AH. BUSC 1B — Principles of Economics – Microeconomics 3 Units (CAN ECON 4) Degree Appropriate, CSU, UC 54 hours lecture. Prerequisite: BUSC 1A or BUSC 1AH Economic analysis with emphasis on price and distribution theory, scarcity, opportunity costs, supply, demand, elasticity; cost theory; price and output determination under various market structures; factor markets; public choice; income distribution; externalities and government regulation; comparative economic systems.	BUSINESS: LAW BUSL 18 — Business Law 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Prerequisite: Eligibility for ENGL 68 Principles of business law emphasizing legal setting of business, nature of the law and court procedure, principles of contract law, sales of goods under the Uniform Commercial Code, personal property, bailments, and secured transactions. BUSL 18H — Business Law – Honors 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Prerequisite: Acceptance into the Honors Program Principles of business law emphasizing legal setting of business, nature of the law and court procedure, principles of contract law, sales of goods under the Uniform Commercial Code, personal property, bailments, and secured transactions. An honors course designed to provide an enriched experience. Students may not receive credit for both BUSL 18 and BUSL 18H. BUSL 19 — Advanced Business Law 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Advisory: BUSL 18 Principles of business law emphasizing commercial paper, agency, partner-
an approved work site which is related to classroom-based learning. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. Work experience placement is not guaranteed but assistance is provided. Students who repeat this course will improve skills through further instruction and practice. BUSA 85 — Work Experience in Accounting (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.) 300 hours lab. <i>Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog</i> <i>Advisory: BUSA 7 or BUSA 72</i> Provides accounting students with actual on-the-job experience in an approved work site which is related to classroom-based learning. A	BUSC 1BH — Principles of Economics – Microeconomics – 3 Units Honors Spring Semester Degree Appropriate, CSU, UC (CAN ECON 4) 54 hours lecture. Prerequisite: BUSC 1A or BUSC 1AH Economic analysis with emphasis on price and distribution theory, scarcity, opportunity costs, supply, demand, elasticity; cost theory; price and output determination under various market structures; factor markets; public choice, income distribution, externalities and government regulations; comparative economic systems. An honors course designed to provide an enriched experience. Students may not receive credit for both BUSC 1B and BUSC 1BH. BUSC 17 — Applied Business Statistics 3 Units	ships, corporations, bankruptcy, regulation of trade and real property. BUSL 20 — International Business Law 3 Units 54 hours lecture. Degree Appropriate Advisory: Eligibility for ENGL 68 A comparative approach to the study of the international legal environment for business. Cultural, political, economic and ethical issues are emphasized as well as traditional business law subjects such as sales, commercial paper, corporate law, agency, licensing, employment, crimes, trade regulation and technology transfers. BUSINESS: MANAGEMENT BUSM 10 — Principles of Continuous Quality Improvement 3 Units 54 hours lecture. Degree Appropriate Advisory: Eligibility for ENGL 68 or BUSO 5
minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. Work experience placement is not guaranteed but assistance is provided. Students who repeat this course will improve skills through further instruction and practice. BUSINESS: ECONOMICS BUSC 1A — Principles of Economics – Macroeconomics 3 Units (CAN ECON 2) Degree Appropriate, CSU, UC 54 hours lecture. <i>Prerequisite: Eligibility for ENGL 1A</i> Principles of aggregate economic analysis; economic cycles including recession, unemployment, inflation and economic growth; national income accounts; money and financial institutions; monetary and fiscal policy; alternative economic viewpoint; budget deficits and public debts; international trade and finance.	Fall Semester Degree Appropriate, CSU, UC 54 hours lecture. Prerequisite: MATH 71 or four semesters of high school algebra (C or better) in the last two semesters Statistical reasoning and application of primary statistical techniques used in solving managerial problems. Topics include: collection and interpretation of data, measures of central tendency and dispersion,	History and evolution of thought in Continuous Quality Improvement, including the theories and methods of Deming, Juran and Crosby. The quality management process and tools for the continuous improvement of quality are presented. Relevant case studies are included. BUSM 12 — Continuous Quality Improvement Team Building 3 Units Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. <i>Advisory: BUSM 10</i> Comprehensive instruction in building and using Continuous Quality Improvement project teams including selection of team members and evaluation of team performance. Includes creating and evaluating problem solutions, applying tools for improvement planning, team decision making, and building an effective improvement plan.

goals. Various theories of management, lines of authority, functions of departments, and the importance of policies, procedures, and controls are discussed. BUSM 62 — Human Resource Management 3 Units 54 hours lecture Degree Appropriate	A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. Work Experience placement is not guaranteed but assistance is provided by the business faculty. Students who repeat this course will improve skills through further instruction and practice.
Direction of people including guidance, control supervisory problems, training, job analysis interviewing, testing, rating, and other functions involving human resources. Designed to improve the overall understanding of the relationship between the individual and the	BUSM 84 — Work Experience in Business 4 Units Spring Semester Degree Appropriate (May be taken four times for credit.) (May be taken for Credit/No Credit only.)
business organization. BUSM 66 — Small Business Management 3 Units 54 hours lecture. Degree Appropriate, CSU Practical problems encountered in organizing and operating a small business enterprise: initiating the business, financial and administrative control, legal and government relationships and other related considerations.	300 hours lab. <i>Corequisite: BUSM 20 (May have been taken previously)</i> Provides business students with actual on-the-job experience in an approved work site which is related to classroom-based learning. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. Work Experience placement is not guaranteed but assistance is provided by the business
BUSM 81 — Work Experience in Business1 Unit(May be taken four times for credit.)Degree Appropriate(May be taken for Credit/No Credit only.)75 hours lab.	faculty. Students who repeat this course will improve skills through further instruction and practice. BUSM 85 — Special Issues in Business 2 Units Spring Semester Degree Appropriate
<i>Corequisite: BUSM 20 (May have been taken previously)</i> Provides business students with actual on-the-job experience in an approved worksite which is related to classroom-based learning. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. Work experience placement is not guaranteed but assistance is provided. Students who repeat this course will improve skills through further instruction and practice.	(May be taken two times for credit.) (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. Provide business majors with a forum to gain knowledge, develop techniques, problem solve and implement an actual business plan. Special emphasis will be placed on the particular project of the actual business used as the class project. Students who repeat this course will improve skills through further instruction and practice.
(May be taken four times for credit.) Degree Appropriate	BUSINESS: OFFICE TECHNOLOGY
150 hours lab. <i>Corequisite: BUSM 20 (May have been taken previously)</i> Provides business students with actual on-the-job experience in an approved work site which is related to classroom-based learning. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. Work Experience placement is not guaranteed but assistance is provided by the business	BUSO 5 — Business English3 Units(May be taken two times for credit.)Degree Appropriate54 hours lecture.Prerequisite: Eligibility for ENGL 68 or BUSO 5Thorough training in the skills and techniques of English, as applied to business situations, with emphasis on effective paragraphs and memos. Students who repeat this course will improve skills by further
faculty. Students who repeat this course will improve skills through further instruction and practice. BUSM 83 — Work Experience in Business (May be taken four times for credit.) 3 Units (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.) 225 hours lab. (Orequirite: BILSM 20 (May have been taken previously)	instruction and practice. BUSO 25 — Business Communications 54 hours lecture. Degree Appropriate, CSU <i>Prerequisite: ENGL 1A</i> Written communications, including letters and memos, meeting a variety of situations in the business environment. Includes writing of good news, bad news, sales, claims, and persuasive correspondence;
Provides business students with actual on-the-job experience in an approved worksite which is related to classroom-based learning.	letters and résumés appropriate to job seeking and application; and practicing oral skills as applied to job interviews and business reports.
	departments, and the importance of policies, procedures, and controls are discussed. BUSM 62 — Human Resource Management 3 Units 54 hours lecture. Degree Appropriate Direction of people including guidance, control supervisory problems, training, job analysis interviewing, testing, rating, and other functions involving human resources. Designed to improve the overall understanding of the relationship between the individual and the business organization. BUSM 66 — Small Business Management 3 Units 54 hours lecture. Degree Appropriate, CSU Practical problems encountered in organizing and operating a small business enterprise: initiating the business, financial and administrative control, legal and government relationships and other related considerations. BUSM 81 — Work Experience in Business 1 Unit (May be taken four times for credit.) Degree Appropriate (SU) 75 hours lab. Corequisite: BUSM 20 (May have been taken previously) Provides business students with actual on-the-job experience in an approved worksite which is related to classroom-based learning. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. Work experience placement is not guaranteed but assistance is provided. Students who repeat this course will improve skills through further instruction and practice. BUSM 82 — Work Experience in Business 2 Units (May be taken four times for credit.) Degree Appropriate (May be taken four times for credit.) Degree Appropriate (May be taken four times for credit

BUSO 26 — Oral Communications for Business 3 Units Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. Designed to help business people communicate more effectively in spoken communication situations such as training sessions, presentations, and professional discussions. BUSO 96A — Business Vocabulary 1.5 Units Degree Appropriate	PLGL 35A — Law Office Procedures 3 Units 54 hours lecture. Degree Appropriate, CSU Advisory: PLGL 30 Examines procedures utilized by a paralegal in a law office. Includes knowledge of court systems, preparation and filing of legal papers and court documents, and drafting specialized documents in such areas as estate planning, real estate, divorce, unlawful detainer, adoption, corporations, conservatorships and guardianships. PLGL 35B — Automated Law Office Procedures 3 Units	PLGL 39 — Contract Law 3 Units 54 hours lecture. Degree Appropriate, CSU Laws relating to the formation of contracts. Includes study of the statute of frauds, third-party rights, liability for breach of contract, remedies, discharge, and the Uniform Commercial Code. PLGL 40 — Landlord-Tenant Law 3 Units 54 hours lecture. Degree Appropriate, CSU Landlord-tenant law and creation of legal documentation to represent the landlord-tenant relationship. Examination of the rights and liabilities
(May be taken for option of letter grade or Credit/No Credit.) 27 hours lecture. Develops a broad word command of new and specialized business vocabulary for use in various businesses. Improves vocabulary to enhance written and oral communication. BUSINESS: PARALEGAL	54 hours lecture.Degree AppropriatePrerequisite: PLGL 35ACorequisite: PLGL 30 (May have been taken previously)Advisory: CISB 15 or equivalent computer experienceUse of the personal computer for special purposes in the law office; includes the drafting of pleadings, legal research, document control, preparation of billing, law office and case load management, and tax reports.	PLGL 41 — Property Law 3 Units 54 hours lecture. Degree Appropriate, CSU Examination of the law relating to real and personal property. Analysis of the various forms of ownership of real property; easements, covenants, conditions, and licenses; constitutional questions; types of real estate deeds; and land use controls.
PLGL 30 — Introduction to Paralegal/Legal 3 Units 54 hours lecture. Degree Appropriate, CSU Basic knowledge required of paralegals. An overview of the federal and state legal systems, the relationship of paralegals to attorneys, an introduction to legal writing and research investigation of claims and legal ethics.	PLGL 36 — Paralegal Internship1 Unit(May be taken two times for credit.)Degree Appropriate(May be taken for Credit/No Credit only.)75 hours lab.Prerequisite: PLGL 31A, PLGL 33A, and PLGL 35ACorequisite: PLGL 31B, PLGL 33B, PLGL 35B, PLGL 37, PLGL 39	PLGL 42 — Family Law3 Units54 hours lecture.Degree Appropriate, CSULaws relating to marriage, dissolution, nullity, and legal separation.Includes topics of community property, child custody, child support,spousal support, and prenuptial/antenuptial agreements.
PLGL 31A — Legal Analysis and Writing3 Units54 hours lecture.Degree AppropriateCorequisite: PLGL 30 or BUSL 30 (May have been taken previously)Use of a law library for legal research and references, reading and analyzing codes and statutes, and preparation of case briefs and	<i>(May have been taken previously)</i> Designed to provide the student with actual on-the-job experience in the paralegal profession which relates to student's classroom based learning. Placement is not guaranteed but assistance is provided by the paralegal faculty. A minimum of five hours per week of supervised work (minimum 75 paid clock hours or 60 non-paid clock hours per	PLGL 43 — Wills and Trusts3 Units54 hours lecture.Degree Appropriate, CSULegal principles of the laws of wills and trusts, organization and juris- diction of the California Probate Courts, estate planning and estate taxes.PLGL 44 — Bankruptcy Law3 Units
research reports. PLGL 31B — Advanced Legal Analysis and Writing 3 Units 54 hours lecture. Degree Appropriate, CSU Prerequisite: PLGL 30 and PLGL 31A Preserver and a trial briefs and briefs and	semester) is required. Students who repeat this course will improve skills through further instruction and practice. PLGL 37 — Tort Law 3 Units 54 hours lecture. Degree Appropriate, CSU	54 hours lecture. Degree Appropriate, CSU Creation, scope, and administrative function of federal bankruptcy proceedings and arrangements. Includes wage earner plans and insolvency proceedings.
Preparation of research memoranda, trial briefs, appellate briefs and other paralegal documents. Continuation of PLGL 31A, Legal Analysis and Writing.PLGL 33A — Civil Procedure Pretrial3 Units	Analysis of the law of torts including intentional torts such as assault, battery, false imprisonment, defamation, privacy, trespass and nuisance, negligence, and strict liability. Examination of insurance defense issues.	PLGL 45 — Creditors' Rights3 Units54 hours lecture.Degree Appropriate, CSUCreation, perfection, and enforcement of security interests in property.Unsecured creditors and their methods of enforcing rights and
54 hours lecture.Degree Appropriate, CSUCorequisite: PLGL 30 (May have been taken previously)Analysis of the pretrial procedural steps to litigating a cause of action.Examines the concepts of jurisdiction, venue, parties to the action, summons, default judgments, and pleadings.PLGL 33B — Civil Procedure-Trial and Post-Trial3 Units54 hours lecture.Degree Appropriate, CSUPrerequisite: PLGL 33APreparing for litigation. Includes discovery, preparation of law and motion documents, remedies, summary judgments, motions to dismiss, settlements, and arbitration.	PLGL 38 — Employment and Ethical Issues in Paralegalism 2 Units 36 hours lecture. Degree Appropriate Prerequisite: PLGL 31A, PLGL 33A, PLGL 35A Corequisite: PLGL 31B, PLGL 33B, PLGL 35B, PLGL 37, PLGL 39 (May have been taken previously) Job search skills including preparation of professional résumés and cover letters. interviewing techniques, networking, application of these skills in beginning the search for paralegal employment, and paralegal and attorney ethics.	obtaining judgments. PLGL 47A — Litigation Procedures 3 Units (May be taken two times for credit.) Degree Appropriate 54 hours lecture. Overview of litigation procedures. Description of a trial and trial presentations are emphasized. Preparation of opening statements, direct and cross examinations, and closing statements. Elements of oral argument are examined. Methods of responding to questioning are analyzed. Students who repeat this course will improve skills through further instruction and practice.

PLGL 47B — Litigation Practice1.5 Units(May be taken two times for credit.)Degree Appropriate27 hours lecture.Corequisite: PLGL 47A (May have been taken previously)Students will present a case and evaluate the effectiveness of theirpresentation. Continuous revision of opening arguments, closing arguments,direct examinations, and cross-examinations. Students who repeat thiscourse will improve skills through further instruction and practice.	BUSR 52 — Real Estate Practice3 Units54 hours lecture.Degree AppropriatePrerequisite: BUSR 50 or employment in the real estate fieldOffice procedures and practices in listings, advertising, prospecting,financing, exchanges, property management, salesmanship, landutilization and public relations. A course in real estate practice must becompleted within 18 months of licensure.BUSR 520 — Real Estate Practice Work Experience4 Units	BUSR 56 — Advanced Real Estate Appraisal3 UnitsSpring SemesterDegree Appropriate54 hours lecture.Prerequisite: BUSR 54Appraisal of residential apartment buildings, small office buildings, shopping centers, and industrial buildings. Designed to meet 54 hours toward Office of Real Estate Appraisers (OREA) requirements for certificate-residential/certificate-general appraisal requirements.
PLGL 48 — Criminal Law and Procedures3 Units54 hours lecture.Degree Appropriate, CSUGeneral principles of criminal law and procedure, elements of crimesagainst person and property, parties to a crime, defenses to crimes.Analysis of procedural law relating to arrest, search and seizure, rightsto counsel and a jury, evidentiary issues, sentencing and appeal.PLGL 49 — Evidence Law3 Units	 (May be taken two times for credit.) Degree Appropriate 300 hours lab. Prerequisite: BUSR 50 and not possessing a permanent California real estate license at time of enrollment Corequisite: Student must be enrolled in 7 units minimum, including the work experience units. Provides a minimum of 240 hours of on-site real estate office and/or 	Meets California real estate broker license requirements. BUSR 57 — Income Tax Aspects of Real Estate Investments 3 Units 54 hours lecture. Degree Appropriate Current income tax principles governing the acquisition, ownership, operation and disposition of real property investments with special emphasis on tax planning and integration of tax concepts with procedural aspects. May be used as an elective course to satisfy one
54 hours lecture. Degree Appropriate, CSU Overview of evidence law in civil and criminal cases: principles of relevance and competence of evidence; hearsay and character evidence rules; evidentiary privileges; use and authentication of writings. Use of evidence at trial, burdens of proof and presumptions, constitutional issues.	field work experience under the supervision of a licensed California real estate professional and a college instructor/coordinator. Designed to satisfy Department of Real Estate licensing requirements serving as an equivalent to BUSR 52. Students who repeat this course will improve their skills through further instruction and practice. BUSR 53 — Real Estate Finance 3 Units	of the California Department of Real Estate's requirements for the salesperson or broker license. BUSR 59 — Real Estate Property Management 54 hours lecture. Degree Appropriate Prerequisite: BUSR 50 Property management for owners and managers of residential and
PLGL 50 — Comparative Law 3 Units Degree Appropriate 54 hours lecture. <i>Advisory: Eligibility for ENGL 1A</i> A comparison of the traditions and legal systems of various nations. Specific legal concepts and principles relating to areas of business, substantive law, and procedural law are compared to illustrate and distinguish those systems from the U.S. system. Ethics, language, and	SolutionSolution54 hours lecture.Degree AppropriatePrerequisite: BUSR 50 or employment in the real estate fieldReal estate financing sources, loans underwriting, applications, andappraisals. Can be used to meet the additional education requirementof the salesperson or broker license.BUSR 54 — Real Estate Appraisal3 Units54 hours lecture.54 hours lecture.	commercial income properties. Meets California real estate license requirements for salesperson and broker. BUSR 60 — Real Estate Investment Planning 3 Units 54 hours lecture. Degree Appropriate Prerequisite: BUSR 50 or employment in the real estate field A comprehensive analysis of various investment strategies, techniques, systems, and theories involving all forms of real estate with particular
management issues are considered with regard to doing business abroad. BUSINESS: REAL ESTATE BUSR 50 — Real Estate Principles 3 Units 54 hours lecture. Degree Appropriate, CSU Introductory real estate law, public control, property valuation, finance and real estate practice. Meets some of the California Real Estate Salesperson and Broker License requirements and meets 30 hours	Prerequisite: BUSR 50 or employment in the real estate field Introductory topics in real estate appraisal. Real estate appraisal course must be completed to take the Office of Real Estate Appraisers (OREA) exam. Can also be used to meet the additional education requirement for a sales or broker license. BUSR 54SE — Standards, Ethics and Statistics for 1.5 Units Professional Practice Degree Appropriate	emphasis on research methods needed for successful investing.BUSR 62 — Mortgage Loan Brokering and Lending3 UnitsFall SemesterDegree Appropriate54 hours lecture.Prerequisite: BUSR 50 or employment in the real estate fieldOverview of the technical knowledge of the State and Federal laws that govern the practice of mortgage loan brokerage and lending in the State of California as well as mortgage lending history and process.
toward Basic Appraisal Procedures 2008 Appraiser Qualifications Board (AWB) requirements for certified-residential/certified-general appraiser license. Also provides 30 hours toward office of real estate Appraisers (OREA) requirements for state licensing. BUSR 51 — Legal Aspects of Real Estate 3 Units 54 hours lecture. Degree Appropriate <i>Prerequisite: BUSR 50 or employment in the real estate field</i> Real estate contracts, leases, deeds, foreclosures, homesteads, agency, and disclosures. Can be used to meet the additional educational requirements for the salesperson or broker license.	Prerequisite: BUSR 54 or employment in the real estate field Meets 27 hours towards the license and certification requirements of the Office of Real Estate Appraisers (OREA). Emphasizes appraisal standards, professional ethics, application of statistics to real property valuation, and use of income and expense analysis to develop operating expense ratios. BUSR 55 — Real Estate Economics 3 Units 54 hours lecture. Degree Appropriate Prerequisite: BUSR 50 or employment in the real estate field Analysis of international, national and local factors which determine the value of real estate. Required by the Department of Real Estate (DRE) for the real estate broker license and may be used as the elective course for the salesperson license.	BUSR 66 — General Appraiser Report Writing and Case Studies54 hours lecture.Degree AppropriatePrerequisite: BUSR 50 or employment in the real estate/appraisal field Advisory: BUSR 56Appraisal cases from all areas of real estate transactions with emphasis on cash flow estimates, measures of cash flow, internal rate of return, and discounted cash flow analysis for non-residential properties. Designed to meet 54 hours toward 2008 Appraiser Qualification Board (AWB) requirements for certified-residential/certified-general appraiser license. Also meets Office of Real Estate Appraisers (OREA) licensing requirements.

Course Descriptions		
BUSR 76 — Escrow Procedures I3 Units54 hours lecture.Degree AppropriateA case study method of escrow procedures including processing of saleescrows with and without new trust deed financing; learning and usingthe vocabulary of escrow; drawing of documents; and other processingdetails pertinent to handling escrows from inception to closing.	BUSS 70 — International Marketing Concepts 3 Units 54 hours lecture. Degree Appropriate <i>Prerequisite: BUSS 36</i> Factors unique to foreign economics, cultural environments, political/legal problems, marketing intelligence procedures, international product policy, distribution and market channels, promotion, and pricing decisions	BUSS 82 — Work Experience in Marketing Management 4 Units (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.) 300 hours lab. Prerequisite: BUSS 33 or BUSS 35 or BUSS 36 or BUSS 50 and compliance with Work Experience regulations as designated in the College Catalog Provides marketing students with actual on-the-job experience in an
BUSR 77 — Escrow Procedures II 3 Units Degree Appropriate 54 hours lecture. Prerequisite: BUSR 76 and BUSA 68 or appropriate score on math placement test Advanced escrow procedures covering the more unusual and difficult types of escrows and evaluating the possible solutions. Emphasis on practical processing of real estate sale and loan transactions with some	pricing decisions. BUSS 79 — Work Experience in Marketing Management 1 Unit (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.) 75 hours lab. <i>Prerequisite: BUSS 33 or BUSS 35 or BUSS 36 or BUSS 50 and compliance</i> <i>with Work Experience regulations as designated in the College Catalog</i> Provides marketing students with actual on-the-job experience in an	A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Work Experience placement is not guaranteed but assistance is provided by the business faculty. Students who repeat this course will improve skills through further instruction and practice.
personal property sales. Designed to assist those either directly or indirectly connected with the escrow industry. BUSINESS: SALES, MERCHANDISING & MARKETING	approved work site which is related to classroom-based learning. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended	BUSS 85 — Special Issues in Marketing 2 Units (May be taken two times for credit.) Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) Degree Appropriate
BUSS 33 — Advertising and Promotion 3 Units 54 hours lecture. Degree Appropriate, CSU Characteristics and role of advertising and promotion in business are explored. Emphasis is placed on promotional mix, trend and forecast research, and developing a comprehensive multimedia promotion plan including advertising layout and copy. Students may not receive credit for both BUSS 33 and FASH 63.	that the hours per week be equally distributed throughout the semester. Work Experience placement is not guaranteed but assistance is provided by the business faculty. Students who repeat this course will improve skills through further instruction and practice. BUSS 80 — Work Experience in Marketing Management 2 Units (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.)	36 hours lecture. Prerequisite: BUSS 33 or BUSS 35 or BUSS 36 or BUSS 50 Provides marketing majors with a forum to gain knowledge, develop techniques, problem solve, and implement an actual business marketing plan. Special emphasis will be placed on the particular project of the actual business used as the class project. Students who repeat this course will improve skills through further instruction and practice.
BUSS 35 — Professional Selling3 Units54 hours lecture.Degree Appropriate, CSUPrerequisite: Eligibility for ENGL 68Principles of selling and the role of a salesperson in the marketing process. Includes characteristics and skills necessary for a successful salesperson, techniques for prospecting and/or qualifying buyers, buyer behavior and critical steps in the selling process. Students develop and offer a sales presentation for a selected product, service or concept.	 150 hours lab. Prerequisite: BUSS 33 or BUSS 35 or BUSS 36 or BUSS 50 and compliance with Work Experience regulations as designated in the College Catalog Provides marketing students with actual on-the-job experience in an approved work site which is related to classroom-based learning. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Work Experience placement is not guaranteed but assistance is provided by the business faculty. Students who repeat this course will improve chille therwise further instruction and practice. 	CHEMICAL TECHNOLOGY CHMT 1 — Introduction to Chemical Laboratory Technology 3 Units 36 hours lecture. Degree Appropriate 54 hours lab. Prerequisite: CHEM 10 or one year of high school chemistry (C or better) A survey of chemical laboratory professional and ethical responsibilities, aspects of environmental health and safety, safe handling of chemicals, data collection, data presentation, and strategies for quality improvement. Group projects and case studies will be used to illustrate specific aspects of the course. May include field trips.
BUSS 36 — Principles of Marketing 3 Units 54 hours lecture. Degree Appropriate, CSU Prerequisite: Eligibility for ENGL 68 Organization and function of system of distributing goods and services from the point of production to the consumer. Preparation of a marketing plan using product, distribution, promotional and pricing strategies. Principles	improve skills through further instruction and practice. BUSS 81 — Work Experience in Marketing Management 3 Units (May be taken for Credit/No Credit only.) Degree Appropriate 225 hours lab. Prerequisite: BUSS 33 or BUSS 35 or BUSS 36 or BUSS 50 and compliance	CHMT 5 — Elementary Principles of Chemical Processing 2 Units 36 hours lecture. Degree Appropriate, CSU Prerequisite: CHEM 50 Fundamental theories of industrial chemical processing. Includes mass transfer heat transfer real time instrument measurement water

BUSS 50 — Retail Store Management and Merchandising 3 Units 54 hours lecture. Degree Appropriate, CSU Principles and practices used in the management and merchandising of retail stores. Includes all aspects of the critical buying function, merchandising, promotional techniques, site selection, layout, staffing, market positioning and customer service. Students may not receive credit for both FASH 62 and BUSS 50.

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COURSE DESCRIPTIONS

with Work Experience regulations as designated in the College Catalog Provides marketing students with actual on-the-job experience in an approved work site which is related to classroom-based learning. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Work Experience placement is not guaranteed but assistance is provided by the business faculty. Students who repeat this course will improve skills through further instruction and practice.

transfer, heat transfer, real time instrument measurement, water

treatment, materials of construction and corrosion, separation by

solubility, distillation, mixing systems and chemical reactions.

CHMT 8 — Work Experience in Chemical Technology 1 Unit (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.) 75 hours lab. Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog Provides Chemistry Technology students with actual on-the-job experience in an approved work setting which is related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice.		CHEM 51 — General Chemistry II5 Units(CAN CHEM 4)Degree Appropriate, CSU, UCCHEM 50 + 51 = CAN CHEM SEQ A54 hours lecture.108 hours lab.Prerequisite: CHEM 50 or CHEM 50HThe application of the laws, theories and principles presented inCHEM 50 to a variety of chemical systems. Topics include kinetics,equilibrium, thermodynamics, acid-base and oxidation-reductionreactions, transition metals, electrochemistry and nuclear chemistry.Emphasis is on critical thinking and mathematical problem-solving.Laboratory experiments use computer and calculator-basedtechnologies in data acquisition and analysis.
CHMT 9 — Work Experience in Chemical Technology 2 Units (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.) 150 hours lab. Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog Provides Chemistry Technology students with actual on-the-job experience in an approved work setting which is related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice. CHEMISTRY CHEM 10 — Chemistry for Allied Health Majors 4 Units (CAN CHEM6) Degree Appropriate, CSU, UC CHEM 10 + 20 = CAN CHEM SEQ B 54 hours lecture. 72 hours lab. Prerequisite: MATH 51 or MATH 59 or one year of high school algebra (C or better) Principles of inorganic chemistry including measurements, structure, nomenclature, reactions, radioactivity, energy, properties of matter, acids/bases and solutions. For Allied Health majors such as nursing, dental hygiene, radiation technology. Completion does not give eligibility for CHEM 50. CHEM 20 — Introductory Organic and Biochemistry 5 Units (CAN CHEM 8) Degree Appropriate, CSU, UC CHEM 10 - 2 CAN CHEM SEQ B 54 hours lecture. 108 hours lab. Prerequisite:	 CHEM 50 + 51 = CAN CHEM SEQ A 54 hours lecture. 108 hours lab. Prerequisite: (1) One year high school chemistry with minimum "(" grade each semester; (2) Satisfactory score on Chemistry Placement Examination; (3) Grade of "(" or better in second-year algebra (may not be taken concurrently with CHEM 50.) Successful completion of CHEM 40 will satisfy the first and second prerequisites. Topics in general chemistry such as scientific method, measurements, nomenclature, formulas and equations, reaction patterns, stoichiometry, thermodynamic processes, periodic trends, atomic structure, molecular bonding and geometry, properties of gases, liquids, solids and solutions. Emphasis is on critical thinking and mathematical problem-solving using dimensional analysis. Hands-on laboratory experiments use computer and calculator-based technologies in data acquisition and analysis. Introduces techniques of scientific writing. CHEM 50H — General Chemistry I – Honors 5 Units 54 hours lecture. Degree Appropriate, CSU, UC 108 hours lab. Prerequisite: Acceptance into the Honors Program. Also, (1) one year high school chemistry with minimum "(" grade each semester; (2) satisfactory score on Chemistry Placement Test; (3) grade of "(" or better in second-year algebra (may not be taken concurrently with CHEM 50H). Successful completion of CHEM 40 will satisfy the first and second prerequisites. Topics in general chemistry such as scientific method, measurements, nomenclature, formulas and equations, reaction patterns, stoichiometry, thermodynamic processes, periodic trends, atomic structure, molecular bonding and geometry, properties of gases, liquids, solids and solutions. Emphasis is on critical thinking and mathematical problem-solving using dimensional analysis. Hands-on laboratory experiments use computer and calculator-based technologies in data acquisition and analysis. Introduces techniques of scientific writing.	CHEM 60 — Quantitative Chemical Analysis 5 Units 54 hours lecture. Degree Appropriate, CSU, UC 108 hours lab. Prerequisite: CHEM 51 Techniques of gravimetric, volumetric and instrumental analysis. Precision in measurements, computations, accurate record keeping and report writing. General procedures, skills, methods, practices, philosophies, terminologies and ethics found in industrial, governmental and academic laboratories. CHEM 75 — Instrumental Analysis 5 Units 54 hours lecture. Degree Appropriate 108 hours lab. Prerequisite: CHEM 51 Introduction to a variety of instruments used in chemical industries. Includes theory, hands-on experience and basic maintenance of chemical instrumentation. CHEM 80 — Organic Chemistry 5 Units 54 hours lab. Prerequisite: CHEM 51 Introduction to a variety of instruments used in chemical industries. Includes theory, hands-on experience and basic maintenance of chemical instrumentation. CHEM 80 — Organic Chemistry 5 Units 54 hours lab. Prerequisite: CHEM 51 Designed for chemistry, biochemistry, chemical engineering and biology majors; also for those in pre-professional programs such as medicine, veterinary medicine, dentistry, optometry and pharmacy. Structure/reactivity relationships, energetics, reactions, reaction mechanisms, synthesis, separation, characterization and spectroscopic metho

CHEM 81 — Organic Chemistry5 Units54 hours lecture.Degree Appropriate, CSU, UC108 hours lab.Degree Appropriate, CSU, UC108 hours lab.Prerequisite: CHEM 80Continuation of CHEM 80. Designed for chemistry, biochemistry, chemical engineering and biology majors; also for those in pre- professional programs such as medicine, veterinary medicine, dentistry, optometry and pharmacy. Structure/reactivity relationships, energetics, reactions, reaction mechanisms, synthesis, separation, characterization and spectroscopic methods. Structure, synthesis and representative reactions of carbohydrates, lipids and proteins.CHEM 99 — Special Projects in Chemistry2 Units	CHLD 6 — Survey of Child Development Curriculum 3 Units 54 hours lecture. Degree Appropriate, CSU Prerequisite: CHLD 5 or CHLD 10 Overview of curriculum design for early childhood programs, including planning, implementation and evaluation of curriculum, and observing the interaction of play and development of the whole child. Organization of materials, curriculum areas, and resources are explored. CHLD 10 — Child Growth and Development 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Developmental approach to the study of the child identifying forces affecting growth processes from conception through adulthood. Meets requirements for Title 22 and Title 5 Regulations pertaining to Child	curriculum in relationship to the child's development and creativity. Emphasizes ways to develop an inclusive culturally and linguistically appropriate learning environment which encourages the child's use of senses and builds an awareness of aesthetic materials. CHLD 62 — Music and Motor Development for 3 Units Young Children 3 Units 54 hours lecture. Degree Appropriate, CSU Exploration of the role of music and movement in a child's development. Emphasizes students' development in practical activities including making music, movement, singing and musical instruments.
(May be taken two times for credit.) Degree Appropriate, CSU 36 hours lecture. In order to offer students the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester, and depend on the particular project under consideration. Students must have an instructor's authorization	The period of the 22 and the 3 kegulations pertaining to child Development Permit. Out-of-class observations and interviews required. TB test required. CHLD 10H — Child Growth and Development – Honors 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Prerequisite: Acceptance into the Honors Program Developmental approach to the study of the child identifying forces	CHLD 63 — Creative Sciencing and Math for Young Children 3 Units 54 hours lecture. Degree Appropriate Advisory: Eligibility for ENGL 68 Exploration of children's thinking processes and problem solving abilities as they become aware of the physical world. Discussion, planning, and creating basic science and math experiences. Emphasizes creative aspects of math and science.
before enrolling in this class. Students repeating this course will make individual contracts of a more advanced nature to ensure that proficiencies are enhanced. CHILD DEVELOPMENT CHLD 1 — Child, Family and Community 3 Units	affecting growth processes from conception through adulthood. Meets requirements for Title 22 and Title 5 Regulations pertaining to Child Development Permit. Out-of-class observations and interviews required. An honors course designed to provide an enriched experience for accelerated students. Students may not receive credit for both CHLD 10 and CHLD 10H. TB test required.	CHLD 64 — Health, Safety and Nutrition of Young Children 3 Units 54 hours lecture. Degree Appropriate Examines the relationship between a child's health status, safe learning environments, and proper nutrition. Emphasizes the adult role in preventative health care, legal and ethical reporting of abuse, assisting families to access community services while supporting family practices from diverse populations. Includes universal health precautions, evaluates
54 hours lecture. Degree Appropriate, CSU, UC Prerequisite: Eligibility for ENGL 68 Child development is presented as the interaction and collaboration between children, parents, family, school and community. Studies of family systems in contemporary society as they impact children and their individual heritage, diverse culture, ability and language. Explores the value of communication, the development of child advocacy skills and the ability to use community resources to empower families and children.	CHLD 50 — Multicultural Education: Anti-Bias Perspective 3 Units 54 hours lecture. Degree Appropriate <i>Advisory: CHLD 1</i> Current approaches to diversity in the early childhood setting. Students will create culturally relevant and inclusive teaching environments while fostering the goals of anti-bias curriculum. An emphasis is placed on addressing issues of bias that children and families experience on a daily basis in our society and recognizing effective and respectful handling of bias.	center/agency policies with licensing requirements, and food program service with guidelines for food handling. CHLD 66 — Early Childhood Development Observation 2 Units 36 hours lecture. Degree Appropriate, CSU Prerequisite: CHLD 5 and CHLD 10 or CHLD 10H Corequisite: CHLD 66L (May have been taken previously) Emphasizes the importance of observation of children's behavior and its significance in understanding child development principles. Focus will
CHLD 5 — Principles/Practices in Child Development Programs 3 Units 54 hours lecture. Degree Appropriate, CSU Overview of early child development programs: their histories, philosophies and emphasis; methods of guidance and discipline, licensing and regulations for state, federal and private programs. Reviews philosophies of educating young children and learning, while examining developmentally appropriate practices, including the influence of culture and inclusive environments on the developing child. Explores career paths, professional growth, and ethics. Student assignments involve ten hours outside of class time observation and participation in children's programs.	CHLD 51 — Early Literacy in Child Development3 Units54 hours lecture.Degree Appropriate, CSUAdvisory: CHLD 61Examines the developmental continuum of literacy from birth through early childhood. Considerations of cultural and linguistic diversity are applied to the study of how children become competent in all areas of language. An appreciation of the importance of interaction and cooperation between home and school underlies the exploration of language and literacy acquisition. Issues of early literacy in public policy are reviewed. TB test/observations required.CHLD 61 — Language Arts and Art Media for Young Children 3 Units 54 hours lecture.54 hours lecture.Degree Appropriate Language and literacy development of young children (0 to 6 years) is explored through developmentally appropriate activities, language study, games and play. Describes the role of creative art in the	be on the interaction of the preschool child with the environment and with significant people. CHLD 66L — Early Childhood Development Observation Laboratory 1 Unit 54 hours lab. Degree Appropriate, CSU Corequisite: CHLD 66 Provides the student with an understanding of child development through observations in the laboratory school. The holistic approach to child study is emphasized. Students synthesize information which they have recorded and relate it to different areas of the preschool child's growth and development.

CHLD 67 — Early Childhood Development Participation 2 Units 36 hours lecture. Degree Appropriate, CSU Prerequisite: CHLD 6 and CHLD 66 Corequisite: CHLD 67L Application of knowledge of child development principles in the preschool children's classroom setting and recognition of skills necessary for the teacher of young children. Evaluation of participation experiences. CHLD 67L — Early Childhood Development Participation 1 Unit Laboratory 63 hours lab. Degree Appropriate, CSU	CHLD 71B — Management/Marketing/Personnel for ECD Programs 54 hours lecture. Degree Appropriate Prerequisite: CHLD 71A Degree Appropriate Strategic planning for early childhood development programs, including financial administration, budgeting and marketing. Investigates basic financial/data management programs; examines personnel manage- ment practices designed to facilitate director/administrator/staff relationships; and explores staff development strategies and techniques employed in creative teaching methods.	Provides students with working knowledge of specific curriculum models appropriate for child development programs. Origins, classroom practices, pros, cons, and evaluation methods discussed. Curriculum model will change with course offering. CHLD 82 — Advocacy in Child Development 1 Unit (May be taken two times for credit.) Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 18 hours lecture. Investigates current issues in Child Development; explores process of advocacy on behalf of children.
Corequisite: CHLD 67 Teaching experiences in the preschool children's classroom related to creating environment, managing program, preparing materials, planning and carrying out activities for individual children and groups of children. CHLD 68 — Children With Special Needs 3 Units 54 hours lecture. Degree Appropriate, CSU Prerequisite: CHLD 10 or CHLD 10H Characteristics of the needs of typically and atypically developing children in areas of cognitive, physical, neurological, emotional and social development. Identifies legal requirements, current issues, community resources and the IEP/IFSP process. Emphasizes	CHLD 72 — Teacher, Parent, and Child Relationships 3 Units 54 hours lecture. Degree Appropriate Comprehensive examination of child/parent/teacher relationships to better understand family dynamics and to recognize influences in the child development setting. Theories of sequential changes in parent/child/school relations within the large social context. Strategies dealing with issues that emerge when working with children and their families in the school setting. CHLD 73 — Infant/Toddler Care and Development 3 Units 54 hours lecture. Degree Appropriate, CSU	CHLD 83 — Current Issues in Child Development1 Unit(May be taken four times for credit.)Degree Appropriate(May be taken for option of letter grade or Credit/No Credit.)18 hours lecture.Advisory: CHLD 5, CHLD 10 or CHLD 10HProvides students with a working knowledge of current research in childdevelopment and helps them apply that research to their programs andteaching. Issues covered will change with course offerings. Studentswho repeat this course will improve skills through further instructionand practice.
modifications, adaptations, accommodations and teaching techniques involved in the inclusive classroom. Required observations in community agencies. CHLD 69 — Early Childhood Development Field Work Seminar 36 hours lecture. Degree Appropriate	Advisory: CHLD 10 or CHLD 10H Caregivers and parents learn developmentally appropriate practices for infants and toddlers applicable to families and group care, environmental planning, and developing relationships between diverse families and staff. Student assignments involve up to ten hours of observations and participation with infants and toddlers outside of class time. CHLD 74 — Program Planning for the School Age Child 3 Units	CCHLD 84 — Guidance and Discipline in Child Development 1 Unit Settings 18 hours lecture. Degree Appropriate Advisory: CHLD 5 Problem solving approach to guidance and discipline of children in child development settings. Investigation of appropriate developmental and attitudinal aspects of producing a respectful environment between children, caregivers and parents.
Prerequisite: CHLD 67, CHLD 67L Corequisite: CHLD 91 Selected topics pertinent to problems of students placed in community sites. Topics include philosophical orientation, curriculum, parent involvement, staff relations, professionalism and professional growth, and will involve study, discussion and research. CHLD 71A — Administration of Child Development Programs 3 Units 54 hours lecture. Degree Appropriate, CSU	54 hours lecture. Degree Appropriate Advisory: CHLD 10 or CHLD 10H Integrates principles of child development related to working with the school-age child. Program planning and legal requirements for school- age programs are emphasized. Explores age-appropriate discipline and conflict resolution. Develops activity planning consistent with school- age content standards. Student assignments will include observations of school-age programs.	CHLD 85 — Infants At Risk3 Units54 hours lecture.Degree AppropriatePrerequisite: CHLD 64 and CHLD 73Advisory: CHLD 5Principles and methods of working with infants and toddlers who aredisabled or at-risk in the early childhood setting. Emphasis is placed onissues affecting normal development prevention, intervention, referralsand transition to school. Course will prepare teachers of young children
 Advisory: CHLD 1, CHLD 5, CHLD 6, CHLD 10 or CHLD 10H, or experience as an Administrator of a Children's Program History of the education of children in context of their care and development, laws governing children's programs in California, and goals of childhood development. The administrator's job description, program budget, personnel selection and standards, records and reports, and staff policies are included. 	CHLD 75 — Supervising Adults in Early Childhood Settings 2 Units36 hours lecture.Degree AppropriateAdvisory: CHLD 1 and CHLD 5Methods and principles of working with and supervising adults in the early childhood setting. Emphasis is on the role of the experienced children's teacher who functions as a model and mentor to new teachers as s/he addresses the needs of children, parents and staff.CCHLD 81 — Current Curriculum Models in Child Development 1 Unit (May be taken two times for credit.)Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.)18 hours lecture.	for appropriate planning in these settings. CHLD 91 — Early Childhood Development Field Work 1 Unit (May be taken for Credit/No Credit only.) Degree Appropriate 75 hours lab. A teacher-supervised work experience course which permits students to apply early childhood development principles in community preschools. CHLD 69 Seminar will supplement student's progress. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester.

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Course Descriptions		
CHLD 92 — Family Child Care 3 Units 54 hours lecture. Degree Appropriate Advisory: CHLD 1, 5, 6 and 10 An overall view of home-based early education programs which includes standards of quality for the field of family child care in relationships, environments, activities, developmental learning goals, safety/health, professional and business practices. CHINESE	An independent study laboratory course for students who wish to improve their skills in Mandarin Chinese. May supplement any other Chinese course. Requires 24 hours in the language laboratory to receive credit. Students who repeat this course will improve skills through further practice and drill. COMPUTER & NETWORKING TECHNOLOGY CNET 50 — PC Servicing 4 Units 54 hours lecture. Degree Appropriate	CNET 62 — Network+ Certification Preparation 3 Units (May be taken two times for credit.) Degree Appropriate 54 hours lecture. <i>Advisory: CNET 56</i> Prepares the student and/or A+ certified technician for the Network+ Certification Examination. Individuals preparing for a job in the computer networking industry or who wish to become Network+ certified will find this course invaluable.
CHIN 1 — Elementary Chinese 4 Units (CAN CHIN 2) Degree Appropriate, CSU, UC CHIN 1+2 = CAN CHIN SEQ A 72 hours lecture. Intended for students without previous exposure to Chinese. Begins to develop the ability to converse, read, and write in Mandarin Chinese.	54 hours lab. Advisory: ELEC 50B taken prior or concurrently PC and peripheral servicing techniques, preventative maintenance, hardware configurations, software configurations, software diagnostics, and the use of test equipment. CNET 52 — PC Operating Systems 4 Units	CNET 64 — Server+ Certification Preparation3 Units(May be taken two times for credit.)Degree Appropriate36 hours lecture.54 hours lab.54 hours lab.Advisory: CNET 56 taken priorPrepares the computer/network service technician for the Comp TIAServer+ certification examination.
Includes the study of essentials of pronunciation, vocabulary, idioms, and grammatical structures along with an introduction to Chinese culture. CHIN 2 — Continuing Elementary Chinese 4 Units (CAN CHIN 4) Degree Appropriate, CSU, UC CHIN 1+2 = CAN CHIN SEQ A 72 hours lecture.	54 hours lecture. Degree Appropriate 54 hours lab. Advisory: CNET 50 taken prior Current operating systems required for A+ and Network+ Certification and general computer servicing. Topics include: identification of major components, installation, configuration, upgrading and troubleshooting.	CNET 66 — Security+ Certification Preparation (May be taken two times for credit.) 3 Units 36 hours lecture. Degree Appropriate 36 hours lab. Advisory: CNET 56 taken prior Prepares the computer/network service technician for the Comp TIA
Prerequisite: CHIN 1 or two years of high school Chinese or equivalent Further develops conversational, reading, and writing skills in Mandarin Chinese with special emphasis on verbs, grammar, and extension of vocabulary. CHIN 3 — Intermediate Chinese 4 Units	CNET 54 — PC Troubleshooting4 Units54 hours lecture.Degree Appropriate54 hours lab.Advisory: CNET 50 taken priorAdvanced microcomputer servicing. Includes: isolating, identifying, and	sponsored Security+ Certification examination. Security information is covered only as it pertains to enabling the service technician to troubleshoot a computer system that may have a security problem. COMPUTER APPLICATIONS
CHIN 3 — Intermediate Chinese 4 Units Spring Semester Degree Appropriate, CSU, UC (CAN CHIN 8) 72 hours lecture. Prerequisite: CHIN 2 or equivalent Further development of Mandarin Chinese language skills and their use as tools in exploring Chinese civilization. Further study and review of grammar, exercises in word building, derivation, and the extension of the active and recognition vocabularies.	repairing specific problems in the computer environment at the hardware level. Prepares students for the A+ Certification Exam. CNET 56 — Computer Networks 4 Units 54 hours lecture. Degree Appropriate 54 hours lab. Advisory: CNET 54 taken prior Standards, terminology, design, implementation and troubleshooting techniques as they relate to both Local and Wide Area Networks.	COMP 1 — Computer Keyboarding4 Units54 hours lecture.Degree Appropriate, CSU54 hours lab.Develops basic alpha/numeric keyboarding skills on a personalcomputer; develops a straight-copy rate of 25 to 40 gross words a minute with a predetermined error limit; includes keyboarding of letters, tables and manuscripts.
CHIN 4 — Continuing Intermediate Chinese 4 Units 72 hours lecture. Degree Appropriate, CSU, UC Prerequisite: CHIN 3 or equivalent Enables students to use Mandarin in traveling, telling stories, describing experiences and discussing Chinese literary works, festivals and food. Students learn advanced grammar such as the directional and potential complements, repetition of adjectives, the focus construction, the ba	Emphasis on hardware and software components, network architecture and data transmission methods. Of special interest to computer and network technicians and those seeking certification in A+, Network+, or other MSCE certifications.CNET 60 — A+ Certification Preparation (May be taken two times for credit.)3 Units Degree Appropriate 54 hours lecture.	COMP 1A — Computer Keyboarding 2 Units Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 27 hours lecture. 27 hours lab. Develops basic alpha/numeric keyboarding with skills on a personal computer; develops a straight-copy rate of 25 to 30 gross words a minute with a predetermined error limit.
and bei structures. CHIN 35 — Chinese Language Laboratory (May be taken four times for credit.) Degree Appropriate, CSU (May be taken for Credit/No Credit only.) 27 hours lab. Prerequisite: Concurrent or previous enrollment in Chinese	Advisory: CNET 54 Prepares the student and qualified computer technician for the A+ certification examination. All aspects of the Core and OS test modules will be stressed through both lecture review and test simulation software.	COMP 1B — Computer Keyboarding2 Units27 hours lecture.Degree Appropriate, CSU27 hours lab.Advisory: COMP 1A or BUSO 1A, or ability to type 20 wam with test verification at first class meetingDevelops a straight-copy rate of 25 to 40 gross words a minute with a predetermined error limit and includes keyboarding of letters, tables, and manuscripts.

COMP 2 — Intermediate Computer Keyboarding4 Units54 hours lecture.Degree Appropriate54 hours lab.Prerequisite: COMP 1 or COMP 1B or BUSO 1 or BUSO 1B, or one year of	COMP 18 — Data Entry 3 Units (May be taken two times for credit.) Degree Appropriate 54 hours lecture. Advisory: Ability to type 25 warm with test verification at first class	Using QuarkXPress desktop publishing software on a microcomputer to integrate text and graphics for designing, editing, and producing high- quality business publications. Students who repeat this course will improve skills through further instruction and practice.
high school keyboarding Develops computer keyboarding speed and accuracy with a proficiency standard upon completion of 35-55 gross words a minute with a predetermined error limit. Using word processing software, extensive instruction given for formatting of letters, memos, reports, tables and other related business documents.	<i>meeting</i> Data entry using a microcomputer. Includes intensive skill building on the ten-key pad and development of keyboarding skills for entering formatted and non-formatted text, both alphabetic and numeric, in a variety of business applications. Students who repeat this course will improve skills through further instruction and practice.	COMP 63 — Adobe Illustrator for Desktop Publishers4 Units(May be taken three times for credit.)Degree Appropriate(May be taken for option of letter grade or Credit/No Credit.)54 hours lecture.54 hours lab.Advisory: COMP 10 or COMP 12 or CISB 13 or CISB 15 or equivalent
COMP 10 — Operating the Macintosh Computer1.5 UnitsDegree Appropriate, CSU(May be taken for option of letter grade or Credit/No Credit.)27 hours lecture.Basic skills and in-depth practice operating the Apple Macintosh	COMP 20 — Word for the Business Professional4 Units(May be taken two times for credit.)Degree Appropriate(May be taken for option of letter grade or Credit/No Credit.)54 hours lecture.54 hours lab.	experience. Eligibility for BUSO 5 or ENGL 68. Using Adobe Illustrator on a microcomputer to design and produce graphic images that can be used independently or incorporated into a page layout or presentation program. Students who repeat this course will improve skills through further instruction and practice.
computer. Includes introduction to the operating system, Paint, Draw, word-processing, database, spreadsheet, and multi-media applications. COMP 11 — Internet Research for Business 2 Units Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 27 hours lecture. 27 hours lab. Advisory: COMP 10 or CISB 13 Practical hands-on instruction using the Internet for research in a business environment. Master Internet-specific research techniques, discover timesaving tips for locating and managing information, and use the entire Internet, newsgroups, FTP (File Transfer Protocol) and	Advisory: COMP 10 or CISB 13 and ability to type 25 wam with test verification at first class meetingExtensive hands-on instruction using Microsoft Word and its editing, formatting, and language tools to create, revise and format various business and report documents. Also create flyers, newsletters, and other publication documents using advanced formatting techniques and tools. Students who repeat this course will improve skills through further instruction and practice.COMP 50 — Desktop Presentations Using PowerPoint4 Units (May be taken two times for credit.)Degree Appropriate, CSU 54 hours lab.	COMP 64 — Desktop Publishing Seminar2.5 Units(May be taken three times for credit.)Degree Appropriate(May be taken for Credit/No Credit only.)36 hours lecture.36 hours lecture.27 hours lab.Prerequisite: COMP 60 or COMP 62 and COMP 65Advisory: COMP 63Students will produce "real life" publishing products emphasizing creative design and effective production. Students will gain practical experience through working with clients and working in teams.Students who repeat this course will improve skills and create additional portfolio pieces.
mailing lists. COMP 12 — Office Computer Applications Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. 54 hours lecture.	Advisory: COMP 10 or COMP 12 or CISB 13 or CISB 15 Use PowerPoint to plan, design, and produce effective presentations. Includes creating charts, diagrams, and storyboards; developing appropriate text content; adding sound, animation, and movies. Students who repeat this course will improve skills through further instruction and practice.	COMP 65 — Modifying Images for Desktop Publishing4 Units(May be taken three times for credit.)Degree Appropriate(May be taken for option of letter grade or Credit/No Credit.)54 hours lecture.54 hours lecture.54 hours lab.Advisory: COMP 10 or COMP 12 or CISB 13 or CISB 15 or equivalent
54 hours lab. In-depth study of computer applications utilized in the office environment. Includes extensive hands-on instruction in word processing, spreadsheet, data management, and business graphics. Intended for the student who needs to upgrade or acquire office computer skills.	COMP 60 — Desktop Publishing with InDesign or Pagemaker 4 Units (May be taken three times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. 54 hours lab. Advisory: COMP 10 or COMP 12 or CISB 13 or CISB 15	experience Using Adobe PhotoShop on a microcomputer as applied from the office perspective. Students will learn to modify images that can be used independently or incorporated into a page layout or presentation program. Students who repeat this course will improve skills through further instruction and practice.
COMP 13 — Using Web Page Software 4 Units Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. 54 hours lab. Advisory: COMP 10 or COMP 12 or CISB 13 or CISB 15 Using industry leading Web page authoring software to plan, develop, and publish effective professional Web sites. Includes working with text and graphics; creating hyperlinks; creating tables and layers; collecting data with forms; adding multimedia objects; creating and applying cascading style sheets; creating interactions and behaviors; publishing a Web site.	Advisory. Comp To or Comp T2 or CISB T3 or CISB T3 Using InDesign or PageMaker desktop publishing software to integrate text and graphics for designing, editing and producing high-quality business publications. COMP 62 — Desktop Publishing with QuarkXpress 4 Units (May be taken three times for credit.) Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. 54 hours lab. Advisory: COMP 10 or COMP 12 or CISB 13 or CISB 15 or equivalent experience	COMP 68 — Transcription Techniques3 Units Degree Appropriate(May be taken for option of letter grade or Credit/No Credit.)54 hours lecture.Develops the language competencies and formatting knowledge required to produce acceptable business documents; emphasizes punctuation, number usage, proofreading, spelling and word division; and reinforces through a series of sentence applications, paragraphs and business documents.

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COMP 150 — Basic PowerPoint1 Unit(May be taken for Credit/No Credit only.)Degree Appropriate18 hours lecture.Overview and basic instruction using one of the most popularpresentation software packages. Recommended for all students whoneed to know how to create presentations. Not recommended for OfficeTechnology majors.	Advanced techniques of digital photo color management systems and workflow. System color architectures, monitors, printers, proofers, and other digital devices; spectrophotometer techniques; scripting Photoshop actions, using "digital raw" meta data to organize photo storage; advanced special editing techniques for 16-bit raw color and grayscale images. Students who repeat this course will improve skills through further instruction and practice.	GRAP 24 — Work Experience in Computer Graphics 2 Units (May be taken four times for credit.) Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 150 hours lab. Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog Provides Computer Graphics students with actual on-the-job experience
COMPUTER GRAPHICS	GRAP 16 — Digital Image Design with 3 Units Illustrator & Freehand	in an approved work setting which is related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of
GRAP 1 — Computer Graphics Lab1 Unit(May be taken two times for credit.)Degree Appropriate(May be taken for option of letter grade or Credit/No Credit.)54 hours lab.	(May be taken two times for credit.) Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 54 hours lab.	supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice.
Advisory: COMP 10 or equivalent computer experience Provides computer laboratory experience to supplement the regular program, and provides opportunities for students to pursue more advanced projects. Students who repeat this course will improve skills through further instruction and practice.	Advisory: COMP 10 or equivalent computer experience Basic digital image drawing techniques using Adobe Illustrator or Macromedia Freehand. Includes software tools, applying color, using layers, typography, measurement, and paper systems. Practice importing photo scans, creating layouts, layer animation, choosing fonts, special effects, export file formats, and output in a digital workflow. Students	GRAP 28 — Digital Portfolio 3 Units Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 54 hours lab.
GRAP 10 — Photo Editing with Photoshop3 Units(May be taken two times for credit.)Degree Appropriate(May be taken for option of letter grade or Credit/No Credit.)36 hours lecture.	who repeat this course will improve skills through further instruction and practice. GRAP 18 — Advanced Image Design – 3D Modeling 3 Units	Prerequisite: GRAP 12 and GRAP 20 Preparation of a personal computer graphics portfolio containing key samples of work for presentation or career evaluation. The portfolio displays the learner's skills mastery, knowledge, and capacities for
54 hours lab. Advisory: COMP 10 or PHOT 4 Basic techniques to adjust and modify photos using Photoshop software tools. Includes digital color theory and photo quality standards; practice photoscan reproduction, resolution and scaling, masking, layer editing and effects, filters, color correction and file formats; output for editing, restoring, and retouching. Students who repeat this course will improve skills through further instruction and practice.	Techniques (May be taken two times for credit.) Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 36 hours lecture. 54 hours lab. Prerequisite: GRAP 16 Corequisite: GRAP 16 Corequisite: GRAP 1 (May have been taken previously) Advanced digital image drawing emphasizing creation of photorealistic 3D models and environments Principles of personactive coordinate	communicating, synthesis, and problem solving. GRAP 48 — Introduction to Digital Design Systems 1 Unit Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 18 hours lecture. Advisory: Eligibility for ENGL 68 Designed for students entering the career field of graphic design. Introduction to digital design systems as they relate to computer
GRAP 12 — Advanced Photo Editing with Photoshop3 Units(May be taken two times for credit.)Degree Appropriate(May be taken for option of letter grade or Credit/No Credit.)36 hours lecture.36 hours lab.54 hours lab.	3D models and environments. Principles of perspective, coordinate space, photographic lighting, object animation, photo and video texture mapping, and common techniques for rendering still or animated QuickTime image movies for digital compositing and post-production. Students who repeat this course will improve skills through further instruction and practice.	graphics. CPU type and speed, graphic accelerators, storage media, digital color space, input/output devices, and scanning devices will be emphasized. Software unique to digital design and file management techniques will also be presented.
Prerequisite: GRAP 10 Advanced training in Photoshop editing, color, exposure, sharpness, and contrast enhancement, layer and object masking, vector tools, image compositing, and the uses of blended modes; design of realistic and imaginary photo illustrations using 8- and 16-bit high resolution digital images. Students who repeat this course will improve skills through further instruction and practice.	instruction and practice. GRAP 20 — Applying Photos and Images in Multimedia 3 Units (May be taken two times for credit.) Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 54 hours lab. Advisory: GRAP 10 Principles of digital storutolling, combining still photos, graphics images	GRAP 99 — Special Projects in Computer Graphics2 Units(May be taken four times for credit.)Degree Appropriate, CSU(May be taken for Credit/No Credit only.)36 hours lecture.In order to offer selected students recognition for their academicinterests and ability and the opportunity to explore their disciplines togreater depth, the various departments from time to time offer SpecialProjects courses. The content of each course and the methods of study
GRAP 14 — Digital Color Management3 Units(May be taken two times for credit.)Degree Appropriate(May be taken for option of letter grade or Credit/No Credit.)36 hours lecture.54 hours lab.Prerequisite: GRAP 10	Principles of digital storytelling, combining still photos, graphics images, type, video, and audio content output to digital CD or DVD media, video, or Web pages. Commonly used tools and techniques of Apple's iPhoto, iMovie, iDVD, iTunes, GarageBand, and QuickTime Pro multimedia software, Mac OS X features, and other multimedia software and hardware. Students who repeat this course will improve skills through further instruction and practice.	vary from semester to semester and depend on the particular project under consideration. Students must have an instructor's authorization before enrolling in this course. Students repeating this course will make individual contracts of a more advanced nature with the instructor to insure that proficiencies are enhanced.

COMPUTER INFORMATION SYSTEMS: AUXILIARY	for each one unit of credit. Work experience placement is not	CISD 14 — Advanced Database Management – 4 Unit:
CISX 94 — Laboratory Studies in Computer Information 1 Unit	guaranteed but assistance is provided. Students who repeat this course will improve skills through further instruction and practice.	Microcomputers Degree Appropriat
Systems (May be taken two times for credit.) Degree Appropriate, CSU (May be taken for Credit/No Credit only.) 54 hours lab. Prerequisite: Laboratory course in the same subject field and program specialization and depending on space availability This course provides extended laboratory experiences supplementary to those available in the regular program and allows the student to pursue more advanced and complex laboratory projects and experiments. Students who repeat this course will increase skill proficiencies in	COMPUTER INFORMATION SYSTEMS: BEGINNING CISB 11 — Computer Information Systems 3.5 Units (CAN BUS 6) Degree Appropriate, CSU, UC 54 hours lecture. 27 hours lab. Provide an understanding of computer information systems: computer hardware, software, data communications, computer ethics, computer security, systems analysis and design, Internet, problem solving and	54 hours lecture. 54 hours lab. Advisory: CISD 11 and CISP 11 Advanced Access programming techniques using Visual Basic language; event-driven programming; access object model, DAO object model, ADO object model; VB structures, arrays, error handling, multi-user applications, transaction processing, client-server; security issues. Extensive hands-on experience on a windows-based PC.
Computer Information Systems. CISX 95 — Laboratory Studies in Computer Information Systems 2 Units (May be taken two times for credit.) Degree Appropriate, CSU (May be taken for Credit/No Credit only.) 108 hours lab. Prerequisite: Laboratory course in the same subject field and program	programming using multiple computer platforms CISB 13 — Microsoft Windows 2 Units 27 hours lecture. Degree Appropriate, CSU 27 hours lab. Hands-on instruction using Microsoft Windows Operating System to manage files, folders, and disks. Personalize the Windows environment. Use the Search feature to locate files. Browse the Web using Internet Explorer.	54 hours lecture. Degree Appropriate 54 hours lab. <i>Advisory: CISB 11 or CISB 15</i> Provides comprehensive instruction in structured query language (SQL) and transact-SQL for Microsoft SQL Server users. Students design a database, create database objects, view and update data, define cursors, develop program units, manage transactions, and handle database
specialization and depending on space availability This course provides extended laboratory experiences supplementary to those available in the regular program and allows the student to pursue more advanced and complex laboratory projects and experiments. Students who repeat this course will increase skill proficiencies in Computer Information Systems. CISX 96 — Laboratory Studies in Computer Information Systems 3 Units	CISB 15 — Microcomputer Applications 4 Units 54 hours lecture. Degree Appropriate, CSU, UC 54 hours lab. Introduction of windows based operating system and applications. Simple business examples using up-to-date browser, word processing, spreadsheet, database management and presentation software; and integration of software applications. Hands-on instruction on windows based computers.	security. CISD 31 — Database Management 4 Unit 54 hours lecture. Degree Appropriat 54 hours lab. Advisory: CISB 11 Oracle database functions, concepts, and terms. PL/SQL will be used to code, test and implement stored procedures, functions, triggers, and packages. Relational database projects will be built using PL/SQL.
(May be taken two times for credit.) Degree Appropriate, CSU (May be taken for Credit/No Credit only.) 162 hours lab. Prerequisite: Laboratory course in the same subject field and program specialization and depending on space availability This course provides extended laboratory experiences supplementary to those available in the regular program and allows the student to pursue more advanced and complex laboratory projects and experiments. Students who repeat this course will increase skill proficiencies in Computer Information Systems.	CISB 21 — Microsoft Excel 4 Units 54 hours lecture. Degree Appropriate 54 hours lab. Spreadsheet concepts using Microsoft Excel including formatting formula and function use, charting, linking worksheets, pivot tables, macros, and VBA code basics. COMPUTER INFORMATION SYSTEMS: DATABASE CISD 11 — Database Management – Microcomputers 4 Units 54 hours lecture. Degree Appropriate, CSU	CISD 32 — Oracle Forms and Reports 4 Unit 54 hours lecture. Degree Appropriat 54 hours lab. Advisory: CISD 31 Design, creation and implementation of interactive single forms with multiple canvases, multiple forms and reports using PL/SQL triggers, the Object Navigator, and Form and Report Builders. Business reports and interactive forms are created using single and multiple tables. CISD 33 — Oracle Database Architecture and Administration 4 Unit
CISX 97 — Work Experience in Computer Information Systems 1 Unit (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.) 75 hours lab. Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog Advisory: CISD 14, CISP 14, CISM 31 Provides CIS students with actual on-the-job experience in an approved work site which is related to classroom-based learning. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required	54 hours lecture. Degree Appropriate, CSU 54 hours lab. <i>Advisory: COMP 12 or CISB 11 and CISB 15</i> Design, creation and management of relational databases using Microsoft's Access or similar database mangement systems. Basic database design, creation of tables, queries, forms, reports, data access pages, and macros. Creation of Custom Graphical User Interface using Switchboard Manager and VBC code. Extensive hands-on experience on a Windows-based PC.	54 hours lecture. Degree Appropriate 54 hours lab. <i>Advisory: CISD 31 highly recommended</i> Provides the Oracle data-base administrator (DBA) a firm foundation in basic administrative tasks and the necessary knowledge and skills to see up, maintain, organize and troubleshoot an Oracle database. Presents ar in-depth coverage on Oracle internal structures, the database administrative tools, user management, management of database logical and physical layouts.

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CISD 34 — High Performance Oracle SQL Tuning 2 Units 27 hours lecture. Degree Appropriate 27 hours lab. Advisory: CISD 33 Provides Oracle Data Base Administration and Oracle Application Developers with the knowledge and hands-on skills necessary to tune the performance of Oracle applications. Concepts and hands-on programming skills necessary to code efficient SQL statements, use Oracle Optimizers, resources, and path tracing. 2 Units	CISM 21 — Client/Server Architecture4 Units54 hours lecture.Degree Appropriate54 hours lab.Advisory: CISD 14 or CISP 14 or CISP 41Architectural framework and components of a client/serverenvironment. Includes standards groups, data access and distribution, application development, systems and network management, implementation issues; selection criteria for client hardware and software, server hardware and software, relational databases, application prototyping.	CISN 14 — Advanced Telecommunications4 Units54 hours lecture.Degree Appropriate54 hours lab.Advisory: CISM 11, CISN 11, CISN 41Concepts of advanced telecommunication and network analysis. Topicsincluding: review of networking and telecommunications protocols;advanced TCP/IP subnet and OSI Model applications; use of protocolanalysis tool to capture dataframe and troubleshoot advanced networkproblems through the decode analysis of the captured data frame;design and analysis of LAN, WAN, and wireless networks in variousenvironments and appraisal of network security, vulnerability and
27 hours lecture. Degree Appropriate 27 hours lab. Advisory: CISD 11 Database design principles. Understanding database needs and functions, creating data models, E-R and UML diagrams, using normalization rules and principles to create properly-designed databases and learning basic database administrator objectives and tasks. CISD 50 — Web Based Applications With PL/SQL 4 Units	CISM 31 — AS/400 System Administration4 Units54 hours lecture.Degree Appropriate54 hours lab.Advisory: CISB 11 or computer work experienceAdministrating the IBM AS/400 Computer System using OS/400(operating system/400) services: OS/400 user interface, CL commandinterface, navigating system hardware features and licensed programs,	intrusion detection. CISN 21 — Windows Operating System 4 Units 54 hours lecture. Degree Appropriate, CSU 54 hours lab. Advisory: CISB 11 or CISB 15 OR COMP 12 Employing a Windows operating system to manage disks, files and applications. Creating and editing documents with Wordpad and Paint
54 hours lecture. Degree Appropriate, CSU 54 hours lab. Advisory: CISD 31 Development of web-based applications with PL/SQL. Includes general understanding of Web DB, incorporating Oracle database into PL/SQL Web applications and building objects and components. COMPUTER INFORMATION SYSTEMS: MANAGEMENT CISM 11 — Systems Analysis and Design 3.5 Units 54 hours lecture. Degree Appropriate, CSU, UC 27 hours lab. Degree Appropriate, CSU, UC	managing devices, system IPL, system security, objects and object management, libraries and library lists, AS/400 job scheduling and job descriptions, work management objects, objects, save and restore functions, AS/400 utilities, SDA menu creation, DDS-described physical, logical and display files, and basic interactive and batch CL programs. CISM 34 — AS/400 Advanced System Administration 4 Units 54 hours lecture. Degree Appropriate 54 hours lab. Advisory: CISM 31 The AS/400 computer system: Batch and interactive CL system utility programs, including a standard error handling routine, CL parameter	applications, analyze and debug Windows operating environment problems, secure a Windows environment, conduct research on the Internet. CISN 24 — Window Server Network & Security 4 Units Administration 54 hours lecture. Degree Appropriate, CSU 54 hours lab. Advisory: CISB 15 or CISB 11 or CISN 11 OR CISN 21 Active directory security and policy management, server/client installation, DHCP (Dynamic Host Configuration Protocol), DNS (Domain Name Service), file system security, logon script, network printing, Web and terminal server, NAT, IPsec and secure VPN.
Advisory: CISB 15 or COMP 12 and CISB 11 Develops basic understanding of information systems, general system solutions and the discipline of systems analysis in relation to the information system life cycle. Develops skills in applying the tools, techniques, and concepts of systems analysis to information systems development. CISM 14 — Computer Information Systems Seminar 4 Units Spring Semester Degree Appropriate (May be taken two times for credit.) 54 hours lecture.	passing, data areas, message subfiles, and *OUTFILE processing. Save and Restore requirements, backup strategies, the AS/400 System Software upgrade procedures, tape device maintenance, work management objects, work management scenarios, disk analysis, and job scheduling will also be discussed and incorporated into student- developed CL based solutions. Course includes extensive hands-on experience using an AS/400. COMPUTER INFORMATION SYSTEMS: NETWORKING	CISN 31 — Linux Operating System4 Units54 hours lecture.Degree Appropriate, CSU54 hours lab.Advisory: CISB 11Concepts and skills in planning and installing Linux Operating Systemand its graphical interface; using Linux Shells and system administrationcommands; managing user accounts; installing hardware and software;creating scripts to automate system administration; and maintaining filesystems and system resources.
 54 hours letter. 54 hours lab. 54 hours lab. 54 hours lab. 55 Advisory: CISM 11 and at least one of the following: CISD 14, CISP 14, CISP 34 6 Guided experience in the performance, management and documentation of a computer-based system project. The student, independently or as a team member, will initiate and complete a semester project. Includes defining the problem, designing the new system, developing a working system and preparing the system documentation. The project must be completed in a programming language for which an advanced course has been completed. Students who repeat this course will improve skills through further instruction and practice. 	CISN 11 — Telecommunications/Networking4 Units54 hours lecture.Degree Appropriate, CSU54 hours lab.Advisory: CISB 11 or CISB 15NASM core. Prepare for Cisco CCNA 1st year certification. Coversfundamental concepts and design in telecommunications/networkingincluding: network standards, TCP/IP, OSI, network protocols, transmissionmedia, hardware architecture, local area network, wide area network,remote connectivity, Network operating system (Microsoft Windows,Novell NetWare, and UNIX), troubleshooting, maintaining/upgradingnetwork, network security, vulnerability, and intrusion detection.	CISN 34 — LINUX Networking and Security4 Units54 hours lecture.Degree Appropriate, CSU54 hours lab.Advisory: CISN 31Network installation and management using Linux operating systemand its security components. In-depth study of concepts TCP/IP, IPaddressing, network protocols and servers, gateways, routers, bridgesand applications. Creating Linux intranets and connecting to Internet.

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CISN 41 — Novell/SUSE Linux Enterprise Server Administration 4 Units 54 hours lecture. Degree Appropriate, CSU 54 hours lab. Advisory: CISB 15, CISN 11, OR CISN 21 Novell, Microsoft Windows, and Linux server network integrations. NDS (Novell Directory Services), server and client installation, shared resources, NDS and file system security, login script, network printing and management 7EN (Zee Sfort Network) IB cubest	CISP 31 — Programming in C++4 Units54 hours lecture.Degree Appropriate, CSU, UC54 hours lab.Advisory: CISP 11 or CISP 21Object-oriented programming using C++ as the programming language. Object oriented design, documentation, and debugging techniques. Elementary control structures, classes, overload operators and functions, single and multiple inheritance.	CISP 90T — Topics in Computer Programming (May be taken four times for credit.)4 Units Degree Appropriate54 hours lecture.54 hours lab.54 hours lab.Covers special topics in computer programming providing opportunity to explore disciplines in greater depth. The content and methods of study vary from semester to semester depending upon the particular project and topics under consideration.
and management, ZEN (Zero Effort Network), IP subnet. CISN 51 — Cisco CCNA Networking and Routing 4 Units 54 hours lecture. Degree Appropriate, CSU 54 hours lab. Advisory: CISN 11 or CISN 24 or CISN 34 or CISN 41 CNASM (Computer Network Administration and Security Management) AS degree core course. Prepare for Cisco CCNA certification. Cover LAN/WAN (Local/WideArea Network) fundamentals, advanced IP subnet, TCP/IP, IGP, EGP, and network design. Configure Cisco IOS, router, switch, W AN expension 100 for each expension of the content of the conten	CISP 34 — Advanced C++ Programming4 Units54 hours lecture.Degree Appropriate, CSU, UC54 hours lab.Advisory: CISP 31Advanced object-oriented programming concepts and principles of object-oriented design in C++. Data structures: vectors, linked lists, queues, stacks and hash tables. Programs with graphical-user interface. Access to a database. Web services.CISP 41 — Programming in C#4 Units	COMPUTER INFORMATION SYSTEMS: SECURITYCISS 11 — Practical Computer Security2 Units27 hours lecture.Degree Appropriate27 hours lab.Advisory: CISB 11Introductory course in computer security. Provides awareness for allcomputer users to protect user accounts and computer systems fromattacks. Hands-on projects illustrate security software and hardwareconfiguration.
VLAN, access list, PPP, frame relay, HDLC, and routing protocols (Static Route, RIP, IGRP, EIGRP, and OSPF). COMPUTER INFORMATION SYSTEMS: PROGRAMMING CISP 11 — Programming in Visual Basic 4 Units 54 hours lecture. Degree Appropriate, CSU, UC 54 hours lab. Advisory: CISB 11 OR CISB 15 or computer work experience Programming using Visual Basic. Planning and writing object-oriented	Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. 54 hours lab. Advisory: CISB 11 or CISB 15 Plan, develop and debug C# applications using Windows Forms and Web Forms. Course covers loops, if statements, switch blocks, database connections, multiple forms, object-oriented programming concepts. Course taught in hands-on environment and requires projects	CISS 13 — Principles of Information Systems Security4 Units54 hours lecture.Degree Appropriate54 hours lab.Advisory: CISB 11Introductory course in information systems security covering the ten domains needed for the Certified Information Systems Security Professional (CISSP).
applications using Windows Forms and Web Forms; user interface design classes, objects, properties, methods and events; control structures; lists and arrays; printing and Print Previews; accessing a database.CISP 14 — Advanced Basic Programming4 Units54 hours lecture.Degree Appropriate, CSU, UC54 hours lab.Advanced computer programming concepts using Visual Basic as the programming language. Designing, coding, testing, and implementing event-driven programs; creating and updating sequential and random files; validating input data; trapping errors; designing, displaying, searching, and updating database tables; creating record sets using SQL, producing business graphics; using OLE objects and DLLs; distributing applications.	Course taught in hands-on environment and requires projects implementing each concept. CISP 44 — Advanced Programming in C# 4 Units Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. 54 hours lab. Prerequisite: CISP 41 or industry experience in C# Advanced programming concepts using C#. Designing, coding, testing and implementing object-oriented multi-tier applications; displaying, searching, and updating SQL/Client databases using Data Readers and Data Adapters with both Windows Forms and Web Forms; creating user controls, Web Services, and container classes classes; creating HTML help files, deploying applications, and developing mobile applications.	CISS 15 — Operating Systems Security4 Units54 hours lecture.Degree Appropriate54 hours lab.Advisory: CISB 11, CISN 21Advanced aspects of operating systems security from how attackersoperate to how viruses strike. Covers strengthening operating systemsand repelling attacks. Fundamental knowledge of a full range ofsecurity concepts and techniques and application to different operatingsystems (Windows, Unix, etc.)CISS 21 — Network Vulnerabilities and Countermeasures4 Units54 hours lecture.Degree Appropriate, CSU54 hours lab.Concepts of network vulnerabilities from a hacker's perspective.Addresses the latest cutting edge attacks and common attacks still
CISP 21 — Programming in Java4 Units54 hours lecture.Degree Appropriate, CSU, UC54 hours lab.Advisory: CISB 11 OR CISB 15Programming using Java as the programming language. Design and develop object-oriented programs and Web-based applets; document- ation and debugging techniques; user-interface, objects, properties, methods, and events; elementary control structures, lists, arrays, streams and serialization. Provides students with hands-on experience.	CISP 51 — Principles of Object-Oriented Design2 Units27 hours lecture.Degree Appropriate27 hours lab.Advisory: CISP 11 or CISP 21 or CISP 31Provides instruction in object-oriented design and patterns, vitalconcepts for object-oriented programming language. Includes object-oriented design,patterns and UML within programming that will enablestudents to build large packages and business applications.	prevalent though hands-on lab assignments; explores legal issues associated with computer network attacks; provides students knowledge to design, build and operate network systems to prevent, detect, and respond to attacks. Communication protocols, mediums, security classes, well-known ports and services, discovery and scanning techniques, port, socket and service vulnerability penetrations are some topics addressed.

Section 10 143

CISS 23 — Network Analysis, Intrusion Detection/ Prevention Systems4 Units54 hours lecture.Degree Appropriate, CSU54 hours lab.CNASM (Computer Network Administration and Security Management)AS degree core course. Cover IDS/IPS (intrusion detection/prevention systems) and network protocol and analyzing tools. Discuss qualitiesthat go into a sound and appropriate IDS/IPS in different scenarios.Hands-on practice of the tools such as Snort, Cisco IDS/IPS sensor, Sniffer, Ethereal, WildPackets, TCPDump, to detect network attack and	Advisory: CISN 31 or CISW 21 Plan, install and manage secure Web servers like Apache or IIS using server side programming language like PHP to access, manage and secure databases. Course topics include Web server security using firewalls, authentication, and SSL, database installation and configuration, running and securing practical e-commerce sites.	CSCI 145 — Java Language and Object Oriented 4 Units Programming 54 hours lecture. Degree Appropriate, CSU, UC 54 hours lab. Prerequisite: Completion of CSCI 110 Introduction to Java language and object oriented programming with Java as well as general concepts and techniques of computer programming. Topics include: Java expressions, flow control, methods and program structure, Java classes, overloading, object references, inheritance, Java library packages, exceptions, file I/O, applets, GUI, and
troubleshoot network problems. CISS 25 — Network Security and Firewalls 54 hours lecture. 54 hours lab. Degree Appropriate, CSU 54 hours lab.	CISW 41 — XML Secure Programming3 Units54 hours lecture.Degree AppropriateAdvisory: CISW 21Principles, components and benefits of the Extensible Markup Language(XML), including advanced concepts of XPointers, XLink, and XSLT. Apply	event handling. A course for computer science, engineering, mathematics, and other science students. CSCI 150 — Assembly Language/Machine Architecture 3 Units CSCI 150 + 150L = CAN CSCI 10 Degree Appropriate, CSU, UC
Concepts of design and implementation of a secured network. Addresses an in-depth coverage of network security design, implementation and configuration of firewall and VPN in various environments and platforms, implementing security with Cisco routers, firewall log	XML secure programming using DOM and SAX and standards such as Canonicalization, Signatures and Encryption. CISW 49 — Service Oriented Architecture Concepts & 3 Units Practice	54 hours lecture. Prerequisite: CSCI 110 Corequisite: CSCI 150L Organization and operation of real computer systems at the assembly
analysis, IPsec, Ssh (Secure Shell), and secure Perimeter design. Lab assignments will provide hands-on practice in installing. COMPUTER INFORMATION SYSTEMS: WEB APPLICATIONS CISW 11 — Introduction to Internet Technologies 4 Units	54 hours lecture. Degree Appropriate <i>Prerequisite: CISW 41</i> Concepts and design principles of Service Oriented Architecture (SOA) and best practices on how to integrate SOA; XML technologies like DTD, XSD, XLST, XQuery and XPath; and Web Services technologies like WSDL, SOAP, and UDDI. Best practices on integrating SML and Web Services	language level using the Intel 80x86 family of processors; mapping statements and constructs in a high-level language onto sequences of machine instructions; internal representations of simple data types and structures; numerical computation, noting various data representation errors and potential procedural errors; investigation of basic principles of operating systems; and programming language translation process.
54 hours lecture. Degree Appropriate, CSU 54 hours lab. <i>Advisory: CISB 11 or CISB 13 or CISB 15</i> Overview of Internet concepts and how to use Internet technologies securely, including: e-mail, World Wide Web, chat, instant messaging, voice-over IP, searching the Internet, file-sharing, streaming media, creating Web pages and Web sites, blogging, podcasting, wikis, RSS, social networking, multiplayer gaming, and e-commerce.	into applications and databases and enterprise level systems. COMPUTER SCIENCE CSCI 110 — Fundamentals of Computer Science 3.5 Units 54 hours lecture. Degree Appropriate, CSU, UC 27 hours lab. Prerequisite: MATH 71 or MATH 71B or MATH 72 or equivalent Advisory: Eligibility for ENGL 1A	CSCI 150L — Assembly Language Laboratory 1 Unit CSCI 150 + 150L = CAN CSCI 10 Degree Appropriate, CSU, UC (May be taken for Credit/No Credit only.) 54 hours lab. 54 hours lab. Corequisite: CSCI 150 and scientific algorithms and data structures in C++ or Java is strongly recommended Advisory: CSCI 140; Language experience programming general and scientific algorithms and data structures in C++ or Java is strongly
CISW 21 — Secure Client Side Web Programming4 Units54 hours lecture.Degree Appropriate54 hours lab.Advisory: CISB 15 or CISW 11	Basic concepts of computer hardware and software. General computer	recommended Complements the lecture material in CSCI 150. Development/debugging of assembly language programs. CSCI 170 — Introduction to Unix Operating System 3.5 Units
Acquire secure client side programming skills for designing user interfaces, processing user input, and accessing Web servers and databases. Use secure coding techniques with Web programming, scripting and markup languages like XHTML, Dynamic HTML, CSS, XML, JavaScript and others.	CSCI 140 — C++ Language and Object Development 4 Units (CAN CSC118) Degree Appropriate, CSU, UC 54 hours lecture. 54 hours lab. Prerequisite: CSCI 110 or equivalent programming experience	Fall Semester Degree Appropriate, CSU, UC 54 hours lecture. 27 hours lab. Prerequisite: Completion of CSCI 110 Introduction to the UNIX operating system, system administration and
CISW 24 — Secure Server Side Web Programming 4 Units 54 hours lecture. Degree Appropriate 54 hours lab. Advisory: CISW 21 Advanced Web programming such as creating Web user interfaces like interactive CGI (Common Gateway Interface), programming databases, managing files, extracting information, report formatting, and accessing Web servers by using a Web scripting or programming language like PERL.	For computer science, mathematics, engineering and other science students. Introduction to $C++$ programming and object-oriented paradigm. Control structures, functions, arrays, pointers and strings, classes and data abstraction, $C++$ object programming, operator overloading, inheritance, virtual functions and polymorphism, stream input and output, templates, exception handling, file processing. Introduction to data structures in $C++$, string processing and recursion.	networking. Topics include: process synchronization and communication mechanisms, process management, scheduling and protection, memory organization and management, virtual memory, I/O devices management, file systems, networking, system administration for UNIX.

CSCI 190 — Discrete Mathematics Applied to Computer 4 Units	CORRECTIONAL SCIENCES	COUNSELING
Science 72 hours lecture. Degree Appropriate, CSU, UC <i>Prerequisite: MATH 71 or equivalent</i> A study of set theory, propositional and predicate calculus, modular arithmetic, counting techniques, combinatorics, mathematical induction, recursion, binary search trees, graphs and finite probability. For students in computers science, engineering, mathematics and other sciences.	CORS 10 — Introduction to Correctional Sciences3 UnitsSpring SemesterDegree Appropriate, CSU54 hours lecture.Overview of the field of corrections: county jail, probation, the CaliforniaYouth Authority and the Department of Corrections as a member of the Criminal Justice System. Includes philosophy, past and the present practices and the criminal justice and correctional processes.	COUN 1 — Introduction to College1 Unit(May be taken two times for credit.)Degree Appropriate, CSU(May be taken for Credit/No Credit only.)18 hours lecture.Introduction to higher education and the college experience. Includes orientation to college life and higher education resources. Explores graduation, transfer, and career options, factors in educational decision making, and educational planning. Students who repeat this course will
CSCI 210 — Applied Logic for Computers3 Units54 hours lecture.Degree Appropriate, CSU, UCPrerequisite: CSCI 110Basic concepts of digital systems, introduction to Boolean algebra, truth tables, Karnaugh maps, combinational elements and networks, state diagrams, state tables, sequential elements and networks.	CORS 15 — Control and Supervision of the Offender3 UnitsFall SemesterDegree Appropriate54 hours lecture.Examine methods of controlling and supervising inmates. EmphasizesCalifornia's methods in rapidly-expanding institutions.	COUN 2 — College Success Strategies 3 Units Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture.
CSCI 220 — Data Structures I3 UnitsFall SemesterDegree Appropriate, CSU, UC54 hours lecture.Prerequisite: CSCI 140 or CSCI 145Corequisite: CSCI 220LCorequisite: CSCI 220L	CORS 20 — Correctional Law3 UnitsSpring SemesterDegree Appropriate54 hours lecture.Legal and due process rights for inmates. Inmate rights vs. needs of society. State, federal, and appellate court decisions.	Assists students in evaluating their readiness for a successful college experience. Explores strategies and techniques to be an effective college student, including time management, study skills, college resources, career exploration and educational planning. Develops skills necessary to reach educational and career goals.
Abstract data types and running time analysis tools. Linear data structures including sets, stacks, queues, and linked lists. Trees, binary search trees, heaps, and priority queues. Many procedures are discussed using an algorithmic language and selected problems are programmed in a higher level language. CSCI 220L — Data Structures I Laboratory 1 Unit	CORS 25 — Probation and Parole3 UnitsFall SemesterDegree Appropriate54 hours lecture.Historical development of probation and parole with emphasis on currentCalifornia programs. Defines the roles of courts, parole boards and the duties and responsibilities of the staff of probation and parole agencies.	COUN 5 — Career/Life Planning 3 Units 54 hours lecture. Degree Appropriate, CSU Prerequisite: Eligibility for ENGL 68 A systematic approach to self-exploration and career/life planning which includes identification of values, interests, skills and self-management style. Develop decision-making and goal-setting skills and
Fall Semester Degree Appropriate, CSU, UC (May be taken for Credit/No Credit only.) 54 hours lab. <i>Corequisite: CSCI 220</i> An independent study program designed to complement the lecture material presented in CSCI 220, Data Structures. Hands-on computer work	CORS 30 — Ethnic Relations in Corrections3 UnitsSpring SemesterDegree Appropriate54 hours lecture.A historical survey of minority roles, problems and relationships inAmerica. Stresses cultural and racial differences and interpersonalrelationships of correctional staff and clients.	identify barriers to success. Explores careers and job search techniques. COUN 20 — Peer Counselor Training 2 Units (May be taken two times for credit.) Degree Appropriate, CSU 36 hours lecture. Prerequisite: Eligibility for ENGL 68 Designed for group experiences with interpersonal communication and
will include problem solving in linear data structures, strings, and trees. CSCI 230 — Data Structures II 3 Units Spring Semester Degree Appropriate, CSU, UC 54 hours lecture. Prerequisite: CSCI 220 Corequisite: CSCI 230L	CORS 35 — Interviewing and Counseling in Corrections 3 Units54 hours lecture.Degree AppropriateTechniques of interviewing and counseling in the field of correctionswith emphasis on practical application. Needs of the client and agencywill be stressed.CORS 40 — Crime and Delinquency3 Units	discussion of approaches to peer counseling and advising. Provides opportunities for students to develop skills with a variety of communication styles that include open expression, active listening, and feedback. Upon completion of this course, opportunities may be available for students to become employed as peer counselors. Students who repeat this course will improve skills through further instruction
Basic searching/sorting algorithms, hashing, graphs, memory/disk management, B-trees, advanced tree structures and analysis. CSCI 230L — Data Structures II Laboratory 1 Unit Spring Semester Degree Appropriate, CSU, UC	54 hours lecture. Degree Appropriate Criminal behavior and types of crime and effects on society and victims. Stresses property crime, property offender, motivation, and methods of	and practice. COUN 51 — Career Planning 1 Unit (May be taken two times for credit.) Degree Appropriate, CSU (May be taken for Credit/No Credit only.)
(May be taken for Credit/No Credit only.) 54 hours lab. <i>Corequisite: CSCI 230</i> An independent study program designed to complement the lecture material presented in CSCI 230, Data Structures II. Hands on computer work will include problem solving in searching, sorting, and graphs.	CORS 45 — The Violent Offender 3 Units 54 hours lecture. Degree Appropriate Violent crimes of felony assault, robbery, rape, the various types of homicide, and the characteristics of both the offender and the victim.	18 hours lecture. Designed for students who want assistance in making career decisions. A variety of assessments, inventories, and computer generated information will be used in analyzing the student's potential in the world of work. Students who repeat this course will improve skills through further instruction and practice.

Section 10 145

COUN 54 — Single Parent Academy3 Units54 hours lecture.Degree AppropriateDevelop personal, educational, and career life planning skills for single parents.1 UnitCOUN 99A — Special Projects in Counseling (May be taken four times for credit.)1 UnitDegree Appropriate, CSU1 Unit	DNCE 2A-2 — Ballet I .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Basic vocabulary, technique and movement combinations for ballet. Students who repeat this course will improve skills through further instruction and practice.	DNCE 4-2 — Choreography.5 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)36 hours activity.Prerequisite: DNCE 12A or DNCE 12B or DNCE 13Designed for the experienced dancer to learn the techniques of choreography. Presents basic choreographic forms and compositional
18 hours lecture. In order to offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. Students must have an instructor's authorization before enrolling in this course. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced.	DNCE 2B — Ballet II 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Intermediate technique, vocabulary and movement combinations of ballet. Students who repeat this course will improve proficiency through continued instruction and practice.	design. Students who repeat this course will improve technical and compositional skills through further practice and instruction. DNCE 4-3 — Choreography 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Prerequisite: DNCE 12A or DNCE 12B or DNCE 13
COUN 99B — Special Projects in Counseling (May be taken four times for credit.)2 Units36 hours lecture.Degree Appropriate, CSUIn order to offer selected students recognition for their academic	DNCE 2B-2 — Ballet II .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity.	Designed for the experienced dancer to learn the techniques of choreography. Presents basic choreographic forms and compositional design. Students who repeat this course will improve technical and compositional skills through further practice and instruction.
interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. Students must have an instructor's authorization before enrolling in this course. Students repeating this course will make	Intermediate technique, vocabulary and movement combinations for ballet. Students who repeat this course will improve skills through further instruction and practice.	DNCE 11A — Social Dance Forms I 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity.
individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced.	DNCE 3 — Ballet Performance 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity.	Designed to teach basic social dance techniques. Focus on fundamentals of music, dance positions, dance formations and choreography to be used in the study of, but not limited to, Swing, Salsa, Waltz, Foxtrot and
DNCE 1 — Ballet Fundamentals 2 Units (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 72 hours activity. Fundamentals of ballet dance styles and an exploration of composition	Introduces the experienced dance student to the performance aspect of ballet. Provides the opportunity to develop the ability to analyze form leading to composition of advanced movement combinations. Students who repeat this course will improve proficiency through continued instruction and practice.	Tango. Students who repeat this course will improve skills through further instruction and practice. DNCE 11A-2 — Social Dance Forms I (May be taken four times for credit.) .5 Unit Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 26 hourse strukture
in the ballet dance form. Students who repeat this course will improve proficiency through continued instruction and practice.	DNCE 3-2 — Ballet Performance .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.)	36 hours activity. Designed to teach basic social dance techniques. Focus on fundamentals of music, dance positions, dance formations and choreography to be used in the study of, but not limited to, Swing, Salsa, Waltz, Foxtrot and
DNCE 1-2 — Ballet Fundamentals .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity.	36 hours activity. Introduces the experienced dance student to the performance aspect of ballet. Provides the opportunity to develop the ability to analyze form	Tango. Students who repeat this course will improve proficiency through continued instruction and practice.
Introduces the fundamentals of ballet and an appreciation of ballet as an art form. Students who repeat this course will improve skills through further instruction and practice.	leading to composition of advanced movement combinations. Students who repeat this course will improve skills through further instruction and practice.	DNCE 11B — Social Dance Forms II 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity.
DNCE 2A — Ballet I1 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)36 hours activity.Basic vocabulary, technique, and movement combinations for ballet.Students who repeat this course will improve proficiency through continued instruction and practice.	DNCE 4 — Choreography2 Units(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)108 hours activity.108 hours activity.Prerequisite: DNCE 12A or DNCE 12B or DNCE 13Designed for the experienced dancer to learn the techniques of choreography. Presents basic choreographic forms and compositional design. Students who repeat this course will improve technical and compositional skills through further practice and instruction.	Advanced social dance technique. Focus on improving fundamentals of rhythm, dance positions, dance formations and introduction of advanced techniques to be used in the study of, but not limited to, Swing, Salsa, Foxtrot, Waltz, Folk, Polka, Cha Cha and Tango.

DNCE 12A — Modern I 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Basic vocabulary, technique, and movement combinations for modern dance. Students who repeat this course will improve skills through further instruction and practice. DNCE 12A-2 — Modern I .5 Unit	DNCE 13-3 — Modern Performance1 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)54 hours activity.1000 Juntoduces the experienced modern dance student to an overview of modern dance styles and choreography elements, enabling them to choreograph and perform. Students who repeat this course will improve proficiency through continued instruction and practice.	DNCE 15-2 — Jazz Performance .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Introduces the experienced dancer to the performance aspect of jazz dance by providing advanced techniques leading to the performance of compositions. Students who repeat this course will improve skills through further instruction and practice.
 (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Basic vocabulary, technique and movement combinations for modern dance. Students who repeat this course will improve skills through further instruction and practice. 	DNCE 14A — Jazz I 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Basic vocabulary, technique, movement combinations and routines for jazz dance. Students who repeat this course will improve skills through further instruction and practice.	DNCE 17 — Jazz Fundamentals2 Units(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)108 hours activity.108 hours activity.Fundamentals of jazz dance and an exploration of composition in jazzform. Students who repeat this course will improve skills throughfurther instruction and practice.
DNCE 12B — Modern II 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Intermediate technique and movement combinations for modern dance. Students who repeat this course will improve skills through further instruction and practice.	DNCE 14A-2 — Jazz I .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Basic vocabulary, technique, movement combinations and routines for jazz dance. Students who repeat this course will improve skills through further instruction and practice.	DNCE 17-2 — Jazz Fundamentals .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Fundamentals of jazz dance and an exploration of composition in jazz form. Students who repeat this course will improve skills through further instruction and practice.
DNCE 12B-2 — Modern II .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Intermediate technique and movement combinations for modern dance. Students who repeat this course will improve proficiency through continued instruction and practice.	DNCE 14B — Jazz II 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Intermediate technique, movement combinations and routines for jazz dance. Students who repeat this course will improve skills through further instruction and practice.	DNCE 17-3 — Jazz Fundamentals 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Fundamentals of jazz dance and an exploration of composition in jazz form. Students who repeat this course will improve skills through further instruction and practice.
DNCE 13 — Modern Performance 2 Units (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 108 hours activity. 108 hours activity. Introduces the experienced modern dance student to an overview of modern dance styles and choreography elements, enabling them to choreograph and perform. Students who repeat this course will improve proficiency through continued instruction and practice.	DNCE 14B-2 — Jazz II .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Intermediate technique, movement combinations and routines for jazz dance. Students who repeat this course will improve skills through further instruction and practice.	DNCE 18A — Tap I1 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)54 hours activity.54 hours activity.Presents basic technique, rhythms and routines for tap dance. Students who repeat this course will improve skills through further instruction and practice.
DNCE 13-2 — Modern Performance .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Introduces the experienced modern dance student to an overview of modern dance styles and choreography elements, enabling them to choreograph and perform. Students who repeat this course will improve proficiency through continued instruction and practice.	DNCE 15 — Jazz Performance1 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)54 hours activity.Introduces the experienced dancer to the performance aspect of jazzdance by providing advanced techniques leading to the performance ofcompositions. Students who repeat this course will improve skillsthrough further ipractice.	DNCE 18A-2 — Tap I .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Presents basic technique, rhythms and routines for tap dance. Students who repeat this course will improve skills through further instruction and practice.

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DNCE 18B — Tap II 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Intermediate technique, rhythms and routines for tap dance. Students who repeat this course will improve skills through further instruction and practice.	DNCE 24 — Dance Production2 Units(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)108 hours activity.Designed for the experienced dancer to apply previously learnedchoreographic skill, to conduct stage rehearsals and learn costumingtechniques. Students who repeat this course will improve skills throughfurther instruction and practice.	DNCE 29-2 — Theater Dance II .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Provides an opportunity to learn complex dance excerpts from various theater musicals and/or movies. Students who repeat this course will improve skills through further instruction and practice.
DNCE 18B-2 — Tap II .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Intermediate technique, rhythms and routines for tap dance. Students who repeat this course will improve skills through further instruction and practice.	DNCE 24-3 — Dance Production 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Designed for the experienced dancer to apply previously learned choreographic skill, to conduct stage rehearsals and learn costuming techniques. Students who repeat this course will improve skills through	DNCE 30 — Contemporary Dance 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Provides the beginning to advanced dancer the opportunity to experience different techniques of leading contemporary dancers and choreographers. Students who repeat this course will improve skills through further instruction and practice.
DNCE 19 — Tap Performance1 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)54 hours activity.1ntroduces the experienced dancer to the performance aspects of tap by providing advanced techniques leading to the performance of compositions. Students who repeat this course will improve skills through further instruction.	further instruction and practice. DNCE 24-4 — Dance Production (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 81 hours activity. Designed for the experienced dancer to apply previously learned choreographic skill, to conduct stage rehearsals and learn costuming techniques. Students who repeat this course will improve skills through	DNCE 30-2 — Contemporary Dance .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Provides the beginning to advanced dancer the opportunity to experience different techniques of leading contemporary dancers and choreographers. Students who repeat this course will improve skills through further instruction and practice.
DNCE 19-2 — Tap Performance.5 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)36 hours activity.Introduces the experienced dancer to the performance aspects of tap by providing advanced techniques leading to the performance of compositions. Students who repeat this course will improve skills through further instruction and practice.	further instruction and practice. DNCE 28 — Theater Dance I 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Provides an opportunity to learn simple dance excerpts from various theater musicals and/or movies. Students who repeat this course will	through further instruction and practice. DNCE 31 — Classical Dance 2 Units (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 108 hours activity. Provides the proficient ballet student the opportunity to experience the different schools of ballet technique. Students who repeat this course will improve skills through further instruction and practice.
DNCE 22 — Dance Rehearsal1 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)54 hours activity.54 hours activity.Designed for the experienced dancer to work in a rehearsalenvironment and to be a participant in the beginning elements ofconcert production. Students who repeat this course will improve skillsthrough further instruction and practice.	improve skills through further instruction and practice. DNCE 28-2 — Theater Dance I .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Provides an opportunity to learn simple dance excerpts from various theater musicals and/or movies. Students who repeat this course will improve skills through further instruction and practice.	DNCE 31-2 — Classical Dance .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Provides the proficient ballet dancer the opportunity to experience the different schools of ballet technique. Students who repeat this course will improve skills through further instruction and practice. DNCE 31-3 — Classical Dance
DNCE 22-2 — Dance Rehearsal.5 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)36 hours activity.Designed for the experienced dancer to work in a rehearsalenvironment and to be a participant in the beginning elements ofconcert production. Students who repeat this course will improve skillsthrough further instruction and practice.		(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Provides the proficient ballet dancer the opportunity to experience the different schools of ballet technique. Students who repeat this course will improve skills through further instruction and practice.

ives I 1 Unit Degree Appropriate, CSU, UC de or Credit/No Credit.) loped by Joseph Pilates. Includes I conditioning exercises and body ment, strength, flexibility, control, work" leads to apparatus work sizing stretch, strength and trunk o repeat this course will improve practice. ctives I .5 Unit Degree Appropriate, CSU, UC	dancer. However, balance and coordination will benefit dancer and non- dancer alike. Students who repeat this course will improve skills through further instruction and practice. DNCE 40-2 — Conditioning Through Dance .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Improves fitness through the coordination of dance exercises. Focuses on strength, flexibility and range of motion. Designed for the non- dancer. However, balance and coordination will benefit dancer and non-dancer alike. Students who repeat this course will improve skills through further instruction and practice.
I conditioning exercises and body ment, strength, flexibility, control, work" leads to apparatus work sizing stretch, strength and trunk o repeat this course will improve practice. ctives I	(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Improves fitness through the coordination of dance exercises. Focuses on strength, flexibility and range of motion. Designed for the non- dancer. However, balance and coordination will benefit dancer and non-dancer alike. Students who repeat this course will improve skills
o repeat this course will improve practice. ctives I .5 Unit Degree Appropriate, CSU, UC	dancer. However, balance and coordination will benefit dancer and non-dancer alike. Students who repeat this course will improve skills
Degree Appropriate, CSU, UC	inrough further instruction and practice.
de or Credit/No Credit.)	DANCE: THEORY
loped by Joseph Pilates. Includes	DN-T 18 — Introduction to Dance 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Advisory: Eligibility for ENGL 68
it awareness resulting in improved alignment, strength, flexibility, control, coordination and breathing. The "mat-work" leads to apparatus work	A survey of the profession of dance and its various art forms through lecture, discussion, demonstration, and participation. Includes multi- cultural dance interpretations.
practice.	DN-T 20 — History and Appreciation of Dance 3 Units 54 hours lecture. Degree Appropriate, CSU, UC
ives II 1 Unit Degree Appropriate, CSU, UC de or Credit/No Credit.)	Advisory: Eligibility for ENGL 68 Survey of theatrical dance in Western civilization. History of dance in chronological sequence emphasizing the cultural background and
54 hours activity. <i>Advisory: DNCE 39A</i> Based on exercises and concepts developed by Joseph Pilates. Includes intermediate and advanced "mat-work". Focus will be primarily on	historical development of various forms and styles of dance. Includes discussion of the influence of theatrical dance on other art forms.
	DISABLED STUDENTS
eformer) developing in improved nd control. Students who repeat further instruction and practice.	DSPS 10 — College Transition Strategies for Students 3 Unit: with Disabilities Non-Degree Credi
ctives II .5 Unit Degree Appropriate, CSU, UC	(May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. Advisory: Eligibility for READ 80
(May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Advisory: DNCE 39A Based on exercises and concepts developed by Joseph Pilates. Includes intermediate and advanced "mat-work". Focus will be primarily on	Introduces students with disabilities to college, including campus resources and college success factors. Explores strategies for successful transition to college. Topics include self-advocacy, college resources, self-management, educational accommodations, effective learning methods, and goal setting.
eformer) developing in improved nd control. Students who repeat further instruction and practice.	DSPS 11 — Assessment of Learning Disabilities1 Unit(May be taken for Credit/No Credit only.)Non-Degree Credit18 hours lecture.18 hours lecture.
ance 1 Unit Degree Appropriate, CSU, UC de or Credit/No Credit.) tion of dance exercises. Focuses iotion. Designed for the non-	Advisory: Approval by DSPS Counselor or DSPS Staff Introduction to types and causes of learning disabilities and the legal definition of "learning disabled." Assessment according to statewide assessment procedure. Understanding learning patterns, identifying educational limitations, and evaluating appropriate support services. Orients students to Mt. SAC's Learning Disability Program.
licinvs) prind liccentration distribution	Degree Appropriate, CSU, UC de or Credit/No Credit.) oped by Joseph Pilates. Includes conditioning exercises and body ment, strength, flexibility, control, work" leads to apparatus work sizing stretch, strength and trunk repeat this course will improve oractice. Wes II 1 Unit Degree Appropriate, CSU, UC de or Credit/No Credit.) oped by Joseph Pilates. Includes ". Focus will be primarily on eformer) developing in improved dd control. Students who repeat further instruction and practice. Ctives II .5 Unit Degree Appropriate, CSU, UC de or Credit/No Credit.) oped by Joseph Pilates. Includes ". Focus will be primarily on eformer) developing in improved dd control. Students who repeat further instruction and practice. Ctives II .5 Unit Degree Appropriate, CSU, UC de or Credit/No Credit.) oped by Joseph Pilates. Includes ". Focus will be primarily on eformer) developing in improved dd control. Students who repeat further instruction and practice. Ince 1 Unit Degree Appropriate, CSU, UC de or Credit/No Credit.) tion of dance exercises. Focuses

Course Descriptions		
DSPS 15 — Personalized Career Exploration for Students 1 Unit with Disabilities (May be taken three times for credit.) Non-Degree Credit (May be taken for Credit/No Credit only.)	memory components, identifying key concepts to memorize, and the independent application of memory strategies to students' other academic courses. Students who repeat this course will improve skills through further instruction and practice.	ELEC 12 — Computer Simulation and Troubleshooting2 Units(May be taken two times for credit.)Degree Appropriate18 hours lecture.54 hours lab.
18 hours lecture. Self-evaluation including interests, experiences, personality, values, and disability-related limitations as they relate to educational and career decisions. Identification of skills and resources, including those that relate to disability factors. Students who repeat this course will improve skills through further instruction and practice.	DSPS 63 — Improving Communicative Effectiveness3 Units(May be taken four times for credit.)Non-Degree Credit(May be taken for Credit/No Credit only.)54 hours lecture.Develops effective communication skills for interpersonalcommunication and public presentations. Increases skills in effective	Advisory: ELEC 51, ELEC 56 taken prior Use of the personal computer for simulation and troubleshooting of both analog and digital electronic circuits. Circuit analysis, value substitution, and fault diagnostics will be done with the emphasis on "Electronics Workbench/Multisim" software. Students who repeat this course will improve skills through further instruction and practice.
DSPS 16 — Educational and Career Options for Students 1 Unit with Disabilities 1 Unit (May be taken three times for credit.) Non-Degree Credit (May be taken for Credit/No Credit only.) 18 hours lecture. Students will identify educational and career options. Emphasis on strategies that facilitate disability-sensitive career and educational planning. Barriers to employment and other disability issues are addressed. Students who repeat this course will improve skills through	listening, speaking conversationally, attending to the nonverbal and social "rules" of communication, and making oral presentations to a group. Prepares students for SPCH 1A or other speech classes. Students who repeat this course will improve skills through further instruction and practice. EDUCATION EDUC 10 — Introduction to Education 54 hours lecture. BEDUCATION BEDUC 10 — Introduction to Education 54 hours lecture. BEDUCATION S4 hours lecture. S4 hours lecture. S4 hours lecture. S5 hours	ELEC 50A — Electronics Theory2 Units36 hours lecture.Degree Appropriate, CSUAdvisory: Eligibility for MATH 51; ELEC 50AL, ELEC 61, ELMA 65A taken concurrentlyConcurrentlyDC circuit theory covering resistive circuits, basic components, Ohm's Law, Kirchoff's Law, and network theorems. (Students seeking a survey course in electronics could take ELEC 90, Survey of Electronics, rather than ELEC 50A or 50B.)
further instruction and practice. DSPS 20 — Improving Spelling and Reading of Words (May be taken three times for credit.) (May be taken for Credit/No Credit only.) 54 hours lecture.	Introduction to the field of education for students interested in teaching at the elementary or secondary level. Principles and issues are explored including history, philosophy, politics of education, needs of learners, and educational specialization. Course includes guidance in the selection of a future area of specialization as well as classroom observations.	ELEC 50AL — Electronics Laboratory1 Unit54 hours lab.Degree Appropriate, CSUCorequisite: ELEC 50ALaboratory experiments in DC circuitry covering concepts presented inELEC 50A. Emphasizes safety, breadboarding skills, data collection and reporting, and test equipment.
Improve reading and spelling skills for multi-syllabic words. Includes sounding letters, oral movements, and common "rules" for reading and spelling words. Students who repeat this course will improve skills through further instruction and practice. DSPS 30 — Academic Success Strategies for Students with Disabilities 1 Unit	EDUC 16 — Aspects and Issues in Teaching Service Learning 3 Units 54 hours lecture. Degree Appropriate, CSU, UC <i>Advisory: Eligibility for ENGL 68</i> Survey of the teaching profession, providing students opportunities to explore aspects of the career, including teaching and learning styles, state content standards and testing, recent California and national legislation, social issues, school funding and teacher rights and	ELEC 50B Electronics Theory 2 Units 36 hours lecture. Degree Appropriate, CSU Advisory: ELEC 50A taken prior; ELEC 50BL, ELMA 65B taken concurrently AC circuit theory covering inductors, capacitors, impedance, filters, decibels, and resonance. Analysis involves the use of complex numbers. Stresses passive components.
 (May be taken four times for credit.) Non-Degree Credit (May be taken for Credit/No Credit only.) 54 hours lab. Advisory: Concurrent enrollment in ENGL 67 or above, or MATH 50 to MATH130 Strategies for academic success in relationship to disabilities. Primary emphasis will be on the effects of and strategies for auditory 	responsibilities. ELECTRONICS ELEC 10 — Introduction to Mechatronics 18 hours lecture. 54 hours lab. ELEC 10 — Introduction to Mechatronics 18 hours lab.	ELEC 50BL — Electronics Laboratory 1 Unit 54 hours lab. Degree Appropriate, CSU Corequisite: ELEC 50B Laboratory experiments in AC circuitry covering concepts presented in ELEC 50B. Emphasizes breadboarding skills, data collection and reporting, and test equipment. Presented in
processing, language expression, memory, fluid reasoning and performance speed. Secondary emphasis will be on strategies to improve subject-specific performance. Students who repeat this course will improve skills through further instruction and practice.	An introduction to the field of mechatronics, a combination of conventional electronic technology with mechanical and computer technology. Special emphasis is on robotics. Hand on activities include the building of a robot.	ELEC 51 — Electronic Devices Theory 3 Units 54 hours lecture. Degree Appropriate, CSU Advisory: ELEC 50B taken prior and ELEC 51L taken concurrently Solid-state devices and circuits, including BJT and FET transistors,
DSPS 31 — Memory Strategies for Students with Disabilities 3 Units(May be taken two times for credit.)Non-Degree Credit(May be taken for Credit/No Credit only.)S4 hours lecture.Advisory: Eligibility for READ 80. Student should have at least one other academic class for application of strategies.Principles of the memory process as it applies to academic coursework. Focus on understanding the memory process, improving specific	ELEC 11 — Technical Applications in Microcomputers 3 Units(May be taken two times for credit.)Degree Appropriate, CSU36 hours lecture.54 hours lab.54 hours lab.Use of the personal computer (PC) in electronics for technically relatedapplications. Includes word processing, spreadsheets, database, computerpresentation methods, e-mail, and job searches. Students who repeat thiscourse will improve skills through further instruction and practice.	rectifier diodes, op-amps, voltage regulators, oscillators, and timers. Emphasizes configurations, classes, load lines, characteristics curves, gain, troubleshooting, and frequency response.

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ELEC 51L — Electronic Devices Laboratory1 Unit54 hours lab.Degree Appropriate, CSUAdvisory: ELEC 51 taken concurrentlyLaboratory experiments in solid-state circuitry, covering conceptspresented in ELEC 51. Emphasizes bread boarding skills, data collectionand reporting, troubleshooting, and test equipment.ELEC 53 — Communications Circuits Theory3 Units54 hours lecture.Degree Appropriate	Advisory: ELEC 53 taken prior and ELEC 55L taken concurrently Microwave components, circuit theory, and their applications with emphasis on satellite technology. Stresses Gunn diode oscillators, transmission lines, waveguides, Smith Charts, components, amplification, frequency analysis, and measurement techniques. ELEC 55L — Microwave Communications Laboratory 1 Unit	ELEC 63 — Electronic Assemblies Recertification1 Unit(May be taken four times for credit.)Degree Appropriate9 hours lecture.27 hours lab.27 hours lab.Prerequisite: ELEC 62Prepares the technician as an Application Specialist for the IPC-7711/IPC-7721 Rework and Repair of Electronic Assemblies certification.(Note: Industry requires recertification every two years.)
Advisory: ELEC 51 taken prior, ELEC 53L taken concurrently Analog and digital communication circuits theory. Emphasizes analog and digital modulation principles in AM, FM, SSB, PLL, FDM, TDM, modems, fiber optics, and telecommunications circuits. ELEC 53L — Communications Circuits Laboratory 54 hours lab. 1 Unit	54 hours lab.Degree AppropriateAdvisory: ELEC 55 taken concurrentlyLaboratory experiments in microwave communication theory covering concepts presented in ELEC 55. Emphasizes data collection and reporting, measurement techniques, and test equipment.ELEC 56 — Digital Electronics3 Units	ELEC 66 — Electrical Code-Residential3 Units54 hours lecture.Non-Degree CreditAdvisory: ELEC 54B and ELEC 54BLIntroduction to the National Electrical Code requirements for residentialwiring. Includes interpretation and review of electrical wiring diagrams, material use, installation methods, and calculation of electrical load to size feeders and conductors. Prepares for part of the California State
Advisory: ELEC 51 taken prior and ELEC 53 taken concurrently Laboratory experiments in communication circuits covering concepts presented in ELEC 53. Emphasis is on proper use of test equipment, test procedures, breadboarding, and analysis in both analog and digital modulation circuits.	54 hours lecture. Degree Appropriate, CSU Advisory: ELEC 56L taken concurrently Combinational and sequential logic circuits emphasizing number systems, binary math, basic gates, Boolean algebra, Karnaugh maps, flip-flops, counters, and registers. Stresses design and troubleshooting techniques.	Contractors C-10 Electrician license exam. ELEC 74 — Microprocessor Systems 3 Units 54 hours lecture. Degree Appropriate, CSU <i>Advisory: ELEC 56 taken prior and ELEC 74L taken concurrently</i> Emphasizes the software/hardware architecture for the typical
ELEC 54A — Industrial Circuits Theory 3 Units 54 hours lecture. Degree Appropriate, CSU Advisory: ELEC 51 taken prior and ELEC 54AL taken concurrently Industrial electronic components and basic control circuits. Includes time delay controls, solid-state controls, relays, opto devices, DC motor control, transducers, SCR, and UJT devices.	ELEC 56L — Digital Electronics Laboratory 1 Unit 54 hours lab. Degree Appropriate, CSU Corequisite: ELEC 56 Laboratory experiments in combinational and sequential logic circuits covering concepts presented in ELEC 56. Emphasizes breadboarding	microprocessor environment. The software instruction set and the hardware interface circuit design are covered for the microprocessor. Fundamentals and terms are covered for the personal computer (PC). ELEC 74L — Microprocessor Systems Laboratory 1 Unit 54 hours lab. Degree Appropriate, CSU
ELEC 54AL — Industrial Circuits Laboratory 1 Unit 54 hours lab. Degree Appropriate, CSU Corequisite: ELEC 54A Laboratory experiments in industrial circuits, covering concepts presented in ELEC 54A. Emphasizes basic industrial control circuits, test	skills, data collection and reporting, and test equipment. ELEC 61 — Electronic Assembly and Fabrication 2 Units (May be taken two times for credit.) Degree Appropriate, CSU 18 hours lecture. 54 hours lab.	Advisory: ELEC 74 taken concurrently Laboratory experiments in microprocessor programming and interfacing utilizing concepts presented in the lecture portion of this class. Emphasis is on the programming and debugging of software programs and interfacing circuits.
equipment, and proper testing procedures. ELEC 54B — Industrial Electronic Systems 2 Units 36 hours lecture. Degree Appropriate, CSU Advisory: ELEC 54A taken prior; ELEC 54BL taken concurrently Expands on circuit theory and demonstrates systems application of industrial electronics including robotics, industrial production, automatican programmable and mater controllers. Emphasize is on	Assembly and fabrication techniques in basic soldering, de-soldering, and surface mount technology. Construction of coaxial and Category 5 cabling and connectors. Includes an overview of types of printed circuit board design. Students who repeat this course will improve skills through instruction and practice. ELEC 62 — Advanced Surface Mount Assembly and Rework 2 Units (May the taken two times for credit)	ELEC 76 — Radio Telephone Communications 3 Units (May be taken two times for credit.) Non-Degree Credit 54 hours lecture. Prepares qualified electronic technicians for the F.C.C. and/or N.A.R.T.E. commercial licenses for technicians and engineers in the communications field. Students who repeat this course will improve skills through further instruction and practice. Students who repeat this course will improve
automation, programmable and motor controllers. Emphasis is on programmable logic controllers. ELEC 54BL — Industrial Electronic Systems Laboratory 1 Unit 54 hours lab. Degree Appropriate, CSU <i>Corequisite: ELEC 54B</i> Laboratory experiments in industrial control circuits, covering concepts presented in ELEC 54B. Includes troubleshooting procedures and system application of industrial electronics. Emphasizes programmable logic controllers and use of "ladder diagrams."	(May be taken two times for credit.)Non-Degree Credit18 hours lecture.54 hours lab.54 hours lab.Advisory: ELEC 61Advanced course in assembly and repair (soldering) on surface mount assemblies. Prepares for the IPC surface mount assembly and rework certifications.Students who repeat this course will improve skills through further instruction and practice.	ELEC 81 — Laboratory Studies in Electronics Technology 1 Unit(May be taken two times for credit.)Degree Appropriate54 hours lab.Advisory: ELEC 50B taken prior or concurrently plus a laboratory course in the same subject fieldExtended laboratory experience supplementary to that available in the regular program. Allows the student to pursue more advanced and complex laboratory projects and experiments.

Course Descriptions		
ELEC 82 — Laboratory Studies in Electronics Technology 2 Units(May be taken two times for credit.)Non-Degree Credit108 hours lab.Advisory: ELEC 50B taken prior or concurrently plus a laboratory course in the same subject fieldExtended laboratory experience supplementary to that available in the regular program. Allows student to pursue more advanced and complex laboratory projects and experiments.	ELEC 94 — Work Experience in Electronics 4 Units (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.) 300 hours lab. Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog Advisory: ELEC 56 Provides actual on-the-job experience in Electronics at an approved work site which is related to classroom instruction. A minimum of five	and other low voltage system installations. Emphasis on copper wire, coax, fiber optic, and structured cables. Prepares students for the California State Contractors C-7 Low Voltage Systems license. EST 56 — Home Theater, Home Integration, & Home 4 Units Security Systems 54 hours lecture. Degree Appropriate 54 hours lab. Advisory: EST 54 Home theater, home integration, and other home management
ELEC 91 — Work Experience in Electronics 1 Unit (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.) 75 hours lab. Prerequisite: Compliance with Work Experience regulations as designated	hours per week of supervised work (60 non-paid clock hours or 75 paid clock hours per semester) is required for each one unit of credit. Students who repeat this course will improve skills through further instruction and practice.	systems. Emphasis on home theater, home management PLCs, security hardware and programming, and the installation and servicing of such systems. Prepares students for the California State Contractors C-7 Low Voltage Systems license.
in the College Catalog Advisory: ELEC 56 Provides actual on-the-job experience in Electronics at an approved work site which is related to classroom instruction. A minimum of five hours per week of supervised work (60 non-paid clock hours or 75 paid clock hours per semester) is required for each one unit of credit. Students who repeat this course will improve skills through further	ELECTRONICS MATHEMATICS ELMA 65A — Mathematics of Electronics 2 Units 36 hours lecture. Degree Appropriate, CSU Advisory: Eligibility for MATH 51; ELEC 50A taken concurrently Mathematics of DC circuits analyzing passive circuits including Ohm's Law, Kirchoff's Law, voltage dividers, current dividers, and network theorems.	EST 62 — Electronic Troubleshooting – I4 Units54 hours lecture.Degree Appropriate54 hours lab.Advisory: EST 56Troubleshooting basic electronic circuits and systems to componentlevel. Circuits include: power supplies, amplifiers, audio circuits, hometheater audio (Dolby 5.1), and video circuits (analog TV).
instruction and practice. ELEC 92 — Work Experience in Electronics 2 Units Spring Semester Degree Appropriate (May be taken for Credit.) (May be taken for Credit/No Credit only.) 150 hours lab.	ELMA 65B — Mathematics of Electronics2 Units36 hours lecture.Degree Appropriate, CSUAdvisory: ELMA 65A taken prior; ELEC 50B taken concurrentlyMathematics of AC circuits analyzing passive circuits including resistance, reactance, impedance, resonance, and complex numbers (polar and rectangular).	EST 64 — Electronic Troubleshooting – II 4 Units 54 hours lecture. Degree Appropriate 54 hours lab. Advisory: EST 62 Troubleshooting advanced electronic video circuits and systems to component level. Includes digital TV and HDTV (plasma, LCD, DLP).
 Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog Advisory: ELEC 56 Provides actual on-the-job experience in Electronics at an approved work site which is related to classroom instruction. A minimum of five hours per week of supervised work (60 non-paid clock hours or 75 paid clock hours per semester) is required for each one unit of credit. Students who repeat this course will improve skills through further instruction and practice. ELEC 93 — Work Experience in Electronics 3 Units 	ELECTRONICS SYSTEMS TECHNOLOGY EST 50 — Electrical Fundamentals for Cable Installations 4 Units 54 hours lecture. Degree Appropriate 54 hours lab. Electrical fundamentals for cable and wire installations, and other low voltage systems. Includes DC/AC, solid-state devices, digital and micro- processor devices and their application to cable installations. Prepares students for the California State Contractors C-7 Low Voltage Systems license.	EST 70 — C-7 Low Voltage Systems License Preparation 2 Units (May be taken four times for credit.) Degree Appropriate 36 hours lecture. Advisory: EST 56 or ECWT 56 taken prior Prepares for the California State Contractors C-7 Low Voltage Systems license examination. Students who repeat this course will improve skills through further instruction and practice. EMERGENCY MEDICAL SERVICE
 (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.) 225 hours lab. Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog Advisory: ELEC 56 Provides actual on-the-job experience in Electronics at an approved work site which is related to classroom instruction. A minimum of five hours per week of supervised work (60 non-paid clock hours or 75 paid clock hours per semester) is required for each one unit of credit. Students who repeat this course will improve skills through further instruction and practice. 	EST 52 — Fabrication Techniques for Cable Installations 4 Units54 hours lecture.Degree Appropriate54 hours lab.Fabrication techniques used in the installation of home theater, computerretworks, home automation, and other low voltage system applications.Emphasis on hand and power tools, construction methods and materialsas they apply to cable and wire installations. Prepares students for theCalifornia State Contractors C-7 Low Voltage Systems license.EST 54 — Cabling and Wiring Standards4 Units54 hours lecture.Degree Appropriate54 hours lab.Advisory: EST 50, EST 52Cable and wire standards of video, voice, and data wiring for hometheater, computer networks, home automation, telecommunications,	EMS 1 — Fundamentals for Paramedics 4 Units (May be taken four times for credit.) Degree Appropriate 72 hours lecture. Prerequisite: Completed Paramedic Program application, current California EMT I (Basic) certificate, and six months employment as an EMT I Advisory: Eligibility for ENGL 68 Overview of emergency medical services (EMS) competencies, current practices, medical terminology, emphasis on applied physiology and structure and function of human body systems. Pre-course for the Paramedic Program. Students who repeat this course will improve skills through further instruction and practice.

EMS 10 — Anatomy and Physiology for Paramedics2 Units39 hours lecture.Degree AppropriatePrerequisite: Admission to Paramedic Program and EMS 1Corequisite: EMS 20, EMS 30, EMS 40, EMS 50, and EMS 60Gross anatomy and physiology of the human body, with applications toparamedic practices.	EMS 70 — Paramedic Clinical Internship3.5 Units(May be taken for Credit/No Credit only.)Degree Appropriate200 hours lab.Corequisite: EMS 60 (May have been taken previously)Application of concepts of paramedic theory and practices, with emphasis on patient assessment and utilization of paramedic skills in a	Approved by the L.A. County and State Departments of Health. Required of all Emergency Medical Technician-I personnel every two years in order to maintain eligibility for employment in an emergency response agency and to keep certification valid. Course covers all required material and current changes/updates in pre-hospital emergency care at the EMT-I level
EMS 20 — Emergency Cardiac Care for Paramedics1 Unit20 hours lecture.Degree Appropriate6 hours lab.Prerequisite: Admission to the Paramedic ProgramCorequisite: EMS 10, EMS 30, EMS 40, EMS 50, and EMS 60Certifies paramedics in Basic Life Support (BLS-CPR), Pediatric AdvancedLife Support (PALS), and Advanced Cardiac Life Support (ACLS).Degree Appropriate	hospital setting. EMS 80 — Paramedic Field Externship 8.5 Units (May be taken for Credit/No Credit only.) Degree Appropriate 480 hours lab. Prerequisite: Successful completion of Los Angeles County accreditation exam Corequisite: EMS 70 (May have been taken previously) Application of concepts of paramedic theory and practices, with	EMT 91 — Emergency Medical Technician I Refresher2 Units(May be taken four times for credit.)Degree Appropriate40 hours lecture.Prerequisite: Completion of a State or County Department of Health (or out-of-state) approved course and possession of a currently valid EMT-I certificate or one which has expired for no more than 20 monthsApproved by the L.A. County and State Departments of Health. Required
EMS 30 — Pharmacology for Paramedics2 Units39 hours lecture.Degree Appropriate13 hours lab.Prerequisite: Admission to the Paramedic ProgramCorequisite: EMS 10, EMS 20, EMS 40, EMS 50, EMS 60Commonly used paramedic drugs, with emphasis on dosages suppliedand ordered, routes of administration, expected therapeutic outcomesand possible adverse reactions.	emphasis on patient assessment and utilization of paramedic skills in a field setting on an operational paramedic unit. EMERGENCY MEDICAL TECHNICIAN EMT 90 — Emergency Medical Technician I 144 hours lecture. 126 hours lab.	of all Emergency Medical Technician – I personnel every two years in order to maintain eligibility for employment in an emergency response agency and to keep certification valid. Course covers all required material and current changes/updates in pre-hospital emergency care at the EMT-I level ENGINEERING ENGR 1 — Introduction to Engineering 1 Unit
EMS 40 — Cardiology for Paramedics5 Units91 hours lecture.Degree AppropriatePrerequisite: Admission to the Paramedic ProgramCorequisite: EMS 10, EMS 20, EMS 30, EMS 50, EMS 60Familiarizes the paramedic with the normal and the diseased heart;includes assessment tools, interpretation of various dysrhythmias andappropriate paramedic interventions.	 Prerequisite: High school graduation or equivalent and minimum of 18 years of age Approved by the L.A. County and State Departments of Health. Emphasizes the development of skill in recognition of symptoms of illnesses and injuries, and proper procedures of pre-hospital emergency care. Awards an EMT-I Course Completion Certificate, necessary for many jobs in emergency care and is a prerequisite for entry into a paramedic program and most fire department jobs. 	Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 18 hours lecture. Introduction to the engineering profession, academic requirements, articulation agreements with four-year institutions, engineering ethics, professional engineering licensure, engineering study as a preparation for other careers, and academic success strategies.
52 hours lecture. Degree Appropriate 104 hours lab. Prerequisite: Admission to the Paramedic Program Corequisite: EMS 10, EMS 20, EMS 30, EMS 40, EMS 60 Perfect the paramedic skills required for field operation as a paramedic and for certification in competency-based exams. EMS 60 — EMS Theory for Paramedics 156 hours lecture. Degree Appropriate Prerequisite: Admission to the Paramedic Program	EMT 90 — Emergency Medical Technician I 10 Units 144 hours lecture. Degree Appropriate 126 hours lab. Prerequisite: High school graduation or equivalent and minimum of 18 years of age Approved by the L.A. County and State Departments of Health. Emphasizes the development of skill in recognition of symptoms of illnesses and injuries, and proper procedures of pre-hospital emergency care. Awards an EMT – I Course Completion Certificate, necessary for many jobs in emergency care and is a prerequisite for entry into a Paramedic program and most fire department jobs.	ENGR 8 — Properties of Materials4 Units Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)72 hours lecture.Prerequisite: CHEM 40 or 50 and PHYS 4A or 2AGMechanical, electrical, magnetic, optical and thermal properties of engineering materials and their relation to the materials' internal structure. Atomic structure and bonding, crystalline structures, phase and phase diagrams, metals, polymers, ceramics, composites, mechanical deformation and fracture, structural control and influence of properties, materials naming and designating systems, corrosion process, lasers,
<i>Corequisite: EMS 10, EMS 20, EMS 30, EMS 40, and EMS 50</i> Theories and principles of paramedic practices, including assessment skills, care of the sick and injured at a paramedic level, with applications to anatomy and physiology, pathologic processes, and mechanism of injury.	Farameter program and most me department just.EMT 91 — Emergency Medical Technician I Refresher2 Units(May be taken four times for credit.)Degree Appropriate40 hours lecture.Prerequisite: Completion of a State or County Department of Health (or out-of-state) approved course and possession of a currently valid EMT-I certificate or one which has expired for no more than 20 months	semiconductors, and electronic packaging materials. ENGR 18 — Introduction to Engineering Graphics 3 Units Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 54 hours lab. Fundamental engineering graphics and problem solving techniques. Skills in freehand and instrument drawing are developed and applied to the solution of problems. Orthographic, isometric and oblique drawings.

Section 10 153

Course Descriptions		
ENGR 24 — Engineering Graphics4 Units(CAN ENGR 2)Degree Appropriate, CSU, UC36 hours lecture.Degree Appropriate, CSU, UC108 hours lab.Prerequisite: ENGR 18 and eligibility for MATH 51Advisory: COMP 15AGraphical expression through CAD, freehand sketching and instrument drawing; orthographic, isometric and oblique drawing and dimensioning, tolerancing. Fasteners, cams, gears, pipe drawings. Descriptive geometry: points, lines and planes. Intersections and developments of solids; sheet	Introduction to electrical circuit analysis, systems of units, applications of Kirchoff's Laws and Thevenin's Theorems to D-C and A-C circuits. Mesh and nodal analysis, RL and RC transients, phasors and steady-state sinusoidal analysis, response as a function of frequency, current, voltage, and power relationships, polyphase circuits, periodic forcing functions, Norton's Theorem, and three-phase circuits. ENGINEERING DESIGN TECHNOLOGY EDT 11 — Technical Engineering Drawing I 36 hours lecture. Degree Appropriate, CSU	EDT 18 — Engineering CAD Applications4 Units(May be taken three times for credit.)Degree Appropriate, CSU54 hours lecture.Degree Appropriate, CSU54 hours lab.Advisory: EDT 11, EDT 16Intermediate CAD for engineering, explores the 2-D and 3-Denvironments, 3-D parametric solid modeling, file manipulation relatedto Windows platforms. Students who repeat this course will improveproficiency and skill levels.EDT 20 — Technical Descriptive Geometry3 Units
metal, electrical and civil engineering/surveying drawings. ENGR 40 — Statics 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Prerequisite: PHYS 4A Static equilibrium of rigid bodies, forces, couples in two-and three- dimensional space. Application of equilibrium principles to trusses, frames and machines. Calculation of center of mass and centroid. Friction, moment of uted and concentrated loads. Forces in cables and beams. Fluid statics. Introduction to virtual work. Vector approach.	72 hours lab. Advisory: Eligibility for MATH 51 Basic skills for a solid foundation in the Engineering Drawing or Computer-Aided Design fields. Involves application, basic sketch, theories and design processes used in engineering and industrial drawings. Completion of a portfolio is a requirement of this course. EDT 12 — Technical Engineering Drawing II 36 hours lecture. 72 hours lab. Advisory EQT 11	Spring Semester 36 hours lecture. 72 hours lab. Advisory: EDT 11 Advanced course for solving visual and spatial problems graphically. Applies the principles of orthographic projection and 3-D visualization to solve problems that involve lines, planes, intersections, auxiliary views, and developments. A time saving skill necessary for prospective engineers and technology students.
ENGR 41 — Dynamics3 Units54 hours lecture.Degree Appropriate, CSU, UCPrerequisite: ENGR 40Absolute and relative motion of particles and rigid bodies in translational and rotational motion. Instantaneous center of rotation.Application of Newton's Second Law, work-energy and impulse- momentum methods. Introduical vibrations. Vector approach.ENGR 42 — Mechanics of Materials3 Units	Advisory: EDT 11 Advanced applications, automated techniques, dimensioning, tolerancing, fasteners, piping, circuit board design, theory used in engineering and industrial drawings. Students will complete a set of working drawings (either manual or CAD) for inclusion in a portfolio. EDT 14 — Mechanical Design – Geometric Dimensioning and Tolerancing 3 Units 36 hours lecture. Degree Appropriate, CSU 72 hours lab. Degree Appropriate, CSU	EDT 24 — Engineering CAD 3-D Solids and Surfaces 3 Units (May be taken two times for credit.) Degree Appropriate, CSU 36 hours lecture. 72 hours lab. Advisory: EDT 18 Advanced engineering CAD for developing detailed working drawings in 3-D environments, incorporating 3-D parametric solid modeling, bill of materials, and surface development. Students who repeat this course will improve proficience and skill levels.
54 hours lecture. Degree Appropriate, CSU, UC Prerequisite: ENGR 40 Mechanics of deformable bodies subjected to axial, torsional, shearing, and bending loads. Combined stresses. Statically indeterminate structures. Deflection and stress analysis of beams. Stability of columns. Strain energy methods. Design of pressure vessels and structures. ENGR 43 — Statics and Dynamics 4 Units 72 hours lecture. Degree Appropriate, CSU, UC Prerequisite: PHYS 4A Advisory: Eligibility for ENGL 68 Statics and dynamics of particles and rigid bodies. Statics, kinematics and kinetics of particles and rigid bodies. Applications of Newton's Laws, work energy, and impulse-momentum methods.	Advisory: EDT 11, EDT 12Use of symbols for tolerance of form and tolerance of position and drawing requirements with respect to actual function and relationship of part features. Studies of related terminology, power transmission, bearing and mechanical devices, related exercises including design layout, details and assembly drawings. Completion of a portfolio is a requirement of this course.EDT 16 — Basic CAD and Computer Applications4 Units (May be taken two times for credit.)Degree Appropriate, CSU 54 hours lab. Advisory: Eligibility for MATH 51 Basic CAD (Computer Aided Design and Drafting) and computer	will improve proficiency and skill levels. EDT 26 — Civil Engineering Technology and CAD 3 Units 36 hours lecture. Degree Appropriate, CSU 72 hours lab. Advisory: EDT 11, EDT 16 Theory of civil engineering projects with hands-on instruction in civil drawings and Computer Aided Drafting and Design (CAD) applications. Layout, topography maps, grading plans, sections, street improvements, and interpretation of surveyor's data are covered. Set of CAD drawings produced for a final portfolio. EDT 28 — Engineering CAD 3-D Illustration/Animation 3 Units (May be taken three times for credit.) Degree Appropriate, CSU 36 hours lecture. 72 hours lab.
ENGR 44 — Electrical Engineering4 UnitsSpring SemesterDegree Appropriate, CSU, UC(CAN ENGR 6)54 hours lecture.54 hours lab.Prerequisite: PHYS 4B	application in architecture, engineering and related fields (including basic word processing, spreadsheet, CAD and presentation applications). Students who repeat this course will improve skills through further instruction and practice.	Advisory: EDT 18 Advanced CAD course in three-dimensional illustration using complex entities, shading, and animation techniques. A completed video portfolio will be developed. (SolidWorks, 3DS Max, Adobe PS). Students who repeat this course will improve skills through further instruction and practice.

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 EDT 89 — Engineering Design Technology Work Experience 1 Unit (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.) 75 hours lab. Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog Provides on-the-job experience in Engineering Design Technology at an opproved work city using skills and knowledge from descreem 	ENGL 1B — English – Introduction to Literary Types3 Units(CAN ENGL 4)Degree Appropriate, CSU, UC54 hours lecture.Prerequisite: ENGL 1A or ENGL 1AHCritical, oral and written evaluation, analysis, and interpretation of shortand long fiction, poetry, and drama. Develops a foundation for personal,cultural, and intellectual growth.	ENGL 8B — Creative Writing – Poetry3 Units(May be taken two times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)54 hours lecture.Prerequisite: ENGL 1A or ENGL 1AHEmphasizes the student's development as a poet. Students who repeatthis course will improve skills through further instruction and practice.
approved work site using skills and knowledge from classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. This course is available to students achieving advanced standing (minimum 12 units in major or equivalent experience). Students who repeat this course will improve skills through further instruction and practice. EDT 90 — Engineering Design Technology Work Experience 2 Units	ENGL 1BH — English – Introduction to Literary Types – 3 Units Honors (CAN ENGL 4) Degree Appropriate, CSU, UC 54 hours lecture. Prerequisite: ENGL 1A or ENGL 1AH and acceptance into the Honors Program Critical, oral, and written evaluation, analysis and interpretation of short and long fiction, poetry, and drama. Develops a foundation for personal, cultural, and intellectual growth. An honors course designed to provide	ENGL 9 — Writing the Personal Journal3 Units(May be taken two times for credit.)Degree Appropriate(May be taken for option of letter grade or Credit/No Credit.)54 hours lecture.54 hours lecture.Prerequisite: Eligibility for ENGL 1APersonal exploration, development of creativity, increased comfort with the writing process, and expanded awareness of others' lives through journal writing. Journal methods will be patterned after Dr. Ira Progoff's concept of creativity and growth, as well other approaches to journal
(May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.)	an enriched experience. Students may not receive credit for both ENGL 1B and ENGL 1BH.	writing. Students who repeat this course will improve skills by further instruction and practice.
 150 hours lab. Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog. Provides on-the-job experience in Engineering Design Technology at an approved work site using skills and knowledge from classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. This course is available to students achieving 	ENGL 1C — Critical Thinking and Writing4 Units72 hours lecture.Degree Appropriate, CSU, UCPrerequisite: ENGL 1A or ENGL 1AHDevelops critical thinking, reading, and writing skills beyond the levelachieved in ENGL 1A. Increases the student's capacity for logical analysisand argumentative writing.ENGL 1CH — Critical Thinking and Writing – Honors4 Units72 hours lecture.Degree Appropriate, CSU, UC	ENGL 10 — Writing Enhancement 1 Unit (May be taken three times for credit.) Non-Degree Credit (May be taken for option of letter grade or Credit/No Credit.) 18 hours lecture. Linked with a corresponding English course, this course provides hands- on writing activities designed to enhance student success and abilities in the linked course. Supplemental learning activities such as individualized instruction; individualized, self-paced practice; group work
advanced standing (minimum 12 units in major or equivalent experience). Students who repeat this course will improve skills through	Prerequisite: ENGL 1A or ENGL 1AH and acceptance into the Honors Program	and student presentations. Students who repeat this course will improve skills through further instruction and practice.
Further instruction and practice. ENGL 1A — Freshman Composition 4 Units (CAN ENGL 2) Degree Appropriate, CSU, UC 72 hours lecture. Prerequisite: ENGL 68 or satisfactory score on the English Placement Test Develops effective expository writing skills; investigates the principles and methods of composition as applied to the writing of essays and the prevent for the principle	Develops critical thinking, reading, and writing skills beyond the level achieved in ENGL 1A. The course will increase the student's capacity for logical analysis and argumentative writing. An honors course designed to provide an enriched experience. Students may not receive credit for both ENGL 1C and ENGL 1CH. ENGL 8A — Creative Writing – Fiction (CAN ENGL 6) 3 Units ENGL 8A OR ENGL 8B = CAN ENGL 6 Degree Appropriate, CSU, UC	ENGL 64 — Writing Effective Sentences 1 Unit (May be taken two times for credit.) Pre-Collegiate (May be taken for option of letter grade or Credit/No Credit.) 18 hours lecture. Prerequisite: Eligibility for ENGL 67 Improve sentence writing skills through the analysis and application of sentence elements. Includes the identification and correction of common sentence problems, such as comma splice, fragment, and runon. Students who repeat this course will improve skills through further instruction
research paper; emphasizes critical reading of academic material. ENGL 1AH — Freshman Composition – Honors 4 Units (CAN ENGL 2) Degree Appropriate, CSU, UC 72 hours lecture. <i>Prerequisite: Acceptance into the Honors Program</i> Develops effective expository writing skills; investigates the principles and methods of composition as applied to the writing of essays and the research paper; emphasizes critical reading of academic material. An honors course designed to provide an enriched experience. Students may not receive credit for both ENGL 1A and ENGL 1AH.	(May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. <i>Prerequisite: ENGL 1A or ENGL 1AH</i> Emphasizes student's development as a writer of fiction. Students will learn processes, techniques, and improve skills through practice and discussion.	instruction and practice. ENGL 65 — Grammar Review 1 Unit (May be taken two times for credit.) Pre-Collegiate (May be taken for option of letter grade or Credit/No Credit.) 18 hours lecture. <i>Prerequisite: Eligibility for ENGL 67</i> A review of the fundamentals of English for the student who needs a practical course focusing on usage and grammar: case, agreement, verbs, verbals, fragments, shifts in construction, dangling modifiers, diction, parallelism, comma-splice, and punctuation. Students who repeat this course will improve skills through further instruction and practice.

ENGL 99 — Special Projects in English2 Units(May be taken four times for credit.)Degree Appropriate, CSU(May be taken for option of letter grade or Credit/No Credit.)36 hours lecture.To offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from summers to depart the section of the province of the section of the section.	LIT 10 — Survey of Shakespeare 3 Units Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. <i>Prerequisite: ENGL 1A</i> A survey of Shakespeare's histories, tragedies, comedies, and selected sonnets with their historical and literary context, emphasizing their relevance to contemporary culture and values.
consideration. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced. EINGLISH: LITERATURE LIT 1 — Early American Literature (CAN ENGL14) LIT 1+2 = CAN ENGL SEQ C Substruct Section 2012 Section	LIT 11A — World Literature 3 Units 54 hours lecture. Degree Appropriate, CSU, UC <i>Prerequisite: ENGL 1A</i> Works and ideas from classical Greece through the Renaissance, emphasizing those works which not only reflect qualities of universal greatness but also the thought and spirit of the ages in which they were written. Emphasizes how art, society, politics, philosophies and general culture are interrelated and reflected in the literature of these different eras.
Prerequisite: ENGL 1A American literature of the seventeenth eighteenth, and nineteenth centuries. Emphasizes writers who created an American literary identity and shaped America's cultural mythology.	LIT 11B — World Literature 3 Units 54 hours lecture. Degree Appropriate, CSU, UC <i>Prerequisite: ENGL 1A</i> An introductory survey course of European literature (17th to the 20th centuries) that explores the significant and representative literary works
(CAN ENGL16)Degree Appropriate, CSU, UCLIT 1+2 = CAN ENGL SEQ C54 hours lecture.Prerequisite: ENGL 1AEmphasizes characteristic 20th century concerns such as identity andcultural diversity, the American Dream, the effects of industrial andtechnological development, human isolation and alienation, andexamines the impact of these concerns on American literary form andon America's cultural mythology.	of the major authors of these periods. Emphasis on the aesthetic, social and philosophical values and ideas that influenced these authors and the development of 20th century thought. LIT 14 — Introduction to Modern Poetry 3 Units (CAN ENGL20) Degree Appropriate, CSU, UC 54 hours lecture. Prerequisite: ENGL 1A Examines the significant poetry of England and America in the 20th century, with the major emphasis on contemporary poems.
LIT 6A — Survey of English Literature 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Prerequisite: ENGL 1A A chronological study of major works from Beowulf and the Anglo-Saxon period to the mid-18th century. LIT 6B — Survey of English Literature 3 Units Degree Appropriate, CSU, UC 3 Units Degree Appropriate CSU, UC 3 Units	LIT 15 — Introduction to Cinema3 Units54 hours lecture.Degree Appropriate, CSU, UCPrerequisite: ENGL 1AExplores the broad range of human experience inherent in the study offilm as art. Using a number of films drawn from various genres,examines film from historical, social, technological and aestheticperspectives.
(May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. <i>Prerequisite: ENGL 1A</i> A chronological study of major works from the Romantic Era through the Victorian and Modern periods to contemporary texts.	LIT 20 — African American Literature 3 Units Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. <i>Prerequisite: ENGL 1A</i> Surveys 18th, 19th and 20th century writings of African Americans. Emphasizes the oral tradition, development of protest literature and major modern and contemporary writers such as Wright, Ellison, Baldwin, Walker, and Morrison.
	(May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. To offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced. ENGLISH: LITERATURE LIT 1 — Early American Literature 3 Units (CAN ENGL SEQ C 54 hours lecture. <i>Prerequisite: ENGL 1A</i> American Literature 3 Units (CAN ENGL 5EQ C 54 hours lecture. <i>Prerequisite: ENGL 1A</i> American Literature 3 Units (CAN ENGL 5EQ C 54 hours lecture. <i>Prerequisite: ENGL 1A</i> Emphasizes writers who created an American literary identity and cultural diversity, the American Dream, the effects of industrial and technological development, human isolation and alienation, and examines the impact of these concer

LIT 25 — Contemporary Mexican American Literature 3 Units Degree Appropriate, CSU, UC	LIT 46 — The Bible As Literature: Old Testament 3 Units 54 hours lecture. Degree Appropriate, CSU, UC	Students who repeat this course will increase skill proficiencies in Family and Consumer Sciences.
(May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. <i>Prerequisite: ENGL 1A</i> Issues of contemporary Mexican-American literature, drama, and film. Includes discussion of the roles played by gender, religion, language, education, family, ethnic identity, and class. Also addresses application of literary tools such as symbolism, language, and theme.	Prerequisite: ENGL 1A Considers the Bible as a collection of literary texts and applies the principles of literary historical analysis to the Old Testament. LIT 47 — The Bible As Literature: New Testament 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Prerequisite: ENGL 1A Considers the Bible as a collection of literary texts and applies the	FCS 83 — Laboratory Studies in Family and Consumer Sciences 3 Units (May be taken two times for credit.) Degree Appropriate 162 hours lab. Prerequisite: Laboratory course in the same subject field and program specialization and depending on space availability This course provides extended laboratory experiences supplementary to
LIT 33 — Images of Women in Literature 3 Units 54 hours lecture. Degree Appropriate, CSU, UC <i>Prerequisite: ENGL 1A</i> Survey of selected pieces of literature, poetry, short stories and novels	principles of literary and historical analysis to selected books of the Old Testament and the New Testament.	those available in the regular program and allows the student to pursue more advanced and complex laboratory projects and experiments. Students who repeat this course will increase skill proficiencies in Family and Consumer Sciences.
which reflect significant ideas and attitudes about women. The Women's Rights Movement will also be explored through an intensive examination of the changing images of women in society as portrayed by both male and female authors. Some contemporary critical material will be used. LIT 35 — Science Fiction and Fantasy Survey 3 Units Degree Appropriate, CSU, UC	FCS 41 — Life Management 3 Units 54 hours lecture. Degree Appropriate, CSU Life management provides individuals with skills for understanding and using resources for effective functioning now and in the future. Explores theories of management including systems thinking and applies to the day-to-day use of one's resources including time, energy, abilities, and money. Major topics include steps in goal setting; problem solving and value	FCS 84 — Laboratory Studies in Family and Consumer Sciences 4 Units (May be taken two times for credit.) Degree Appropriate 216 hours lab. Prerequisite: Laboratory course in the same subject field and program specialization and depending on space availability This course provides extended laboratory experiences supplementary to
(May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. <i>Prerequisite: ENGL 1A</i> A chronological survey of science (or speculative) fiction and fantasy from earliest classics to the present day. Examines early attempts by Aristophanes, Swift, and the "fathers" – H.G. Wells and Verne. Will emphasize contemporary writers such as Bradbury, Heinlein, Vonnegut,	clarifications; time, energy, stress, and conflict management; effect of cultural forces and future trends on goals, values, standards, and time management. FCS 80 — Financial Planning 3 Units 54 hours lecture. Degree Appropriate, CSU Functional approach to personal finance, including budget systems, consumer credit, health care and insurance, debt collection systems, status obligation, accumulating reserves. Examines short-term and long-	those available in the regular program and allows the student to pursue more advanced and complex laboratory projects and experiments. Students who repeat this course will increase skill proficiencies in Family and Consumer Sciences. FCS 91 — Work Experience in Family and Consumer Sciences 1 Unit (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.)
Ellison, Sturgeon, Asimov, and Clarke. Definitions and quality standards will be evolved. LIT 36 — Introduction to Mythology 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Prerequisite: ENGL 1A	term financial goals. Applicable for personal and professional use. Students may not earn credit for both BUSA 71 and FCS 80. FCS 81 — Laboratory Studies in Family and Consumer 1 Unit Sciences (May be taken two times for credit.) Degree Appropriate	 75 hours lab. Prerequisite: Compliance with work experience regulations as designated in the College Catalog Provides Family and Consumer Sciences majors with actual on-the-job experience in an approved work site related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of
A survey of major myths, including creation, fertility, and hero myths. Explores theories and approaches to these archetypal stories and the ways that they reflect and shape culture. Emphasis is on classical myths, but myths from around the world may be included. LIT 40 — Children's Literature 3 Units	 54 hours lab. Prerequisite: Laboratory course in the same subject field and program specialization and depending on space availability This course provides extended laboratory experiences supplementary to those available in the regular program and allows the student to pursue 	supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Work experience placement is not guaranteed but assistance is provided by the Family and Consumer Sciences faculty. Students who repeat this course will improve skills through further instruction and practice.
Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. <i>Prerequisite: ENGL 1A</i> Designed to give the student a knowledge and an appreciation of	more advanced and complex laboratory projects and experiments. Students who repeat this course will increase skill proficiencies in Family and Consumer Sciences. FCS 82 — Laboratory Studies in Family and Consumer 2 Units Sciences	150 110 115 116.
children's books, both fiction and non-fiction, from around the world. Special emphasis is given to analysis and interpretation of thematic and literary elements, suitability for age group, quality of writing and illustration, award-winning books, and issues related to cultural patterns, bias and persuasiveness.	Sciences (May be taken two times for credit.) Degree Appropriate 108 hours lab. Prerequisite: Laboratory course in the same subject field and program specialization and depending on space availability This course provides extended laboratory experiences supplementary to those available in the regular program and allows the student to pursue more advanced and complex laboratory projects and experiments.	 Prerequisite: Compliance with work experience regulations as designated in the College Catalog Provides Family and Consumer Sciences majors with actual on-the-job experience in an approved work site related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that

Course Descriptions		
the hours per week be equally distributed throughout the semester. Work experience placement is not guaranteed but assistance is provided by the Family and Consumer Sciences faculty. Students who repeat this course will improve skills through further instruction and practice. FCS 93 — Work Experience in Family and Consumer Sciences 3 Units (May be taken four times for credit.) Degree Appropriate	FASH 9 — History of Costume and Fashion3 Units54 hours lecture.Degree Appropriate, CSUA survey of Western costume and fashion from antiquity to contemporary times. Emphasis is placed on style development as it relates to social, economic and political forces, and the relationship of historic styles to current fashion.	FASH 21 — Patternmaking I 3 Units 36 hours lecture. Degree Appropriate, CSU 54 hours lab. Prerequisite: FASH 10 Theory and application of basic flat patternmaking techniques to create garment designs using industry standards. By means of dart and seam manipulation, slopers will be created, constructed and fitted.
 (May be taken for Credit/No Credit only.) 225 hours lab. Prerequisite: Compliance with work experience regulations as designated in the College Catalog Provides Family and Consumer Sciences majors with actual on-the-job experience in an approved work site related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that 	FASH 10 — Clothing Construction I3 Units36 hours lecture.Degree Appropriate, CSU54 hours lab.Development of a basic understanding of industry standard apparelconstruction techniques using a variety of machines and equipment.Included are marker preparation, commercial patterns, basic blockfusing, and garment construction of slim skirt/pants, dress/shirt, andknit "T" shirt.	FASH 22 — Fashion Design By Draping3 Units36 hours lecture.Degree Appropriate54 hours lab.Prerequisite: FASH 10Three dimensional dress design through draping fabrics directly to a dress form to create original designs or to interpret fashion illustrations.
the hours per week be equally distributed throughout the semester. Work experience placement is not guaranteed but assistance is provided by the Family and Consumer Sciences faculty. Students who repeat this course will improve skills through further instruction and practice. FCS 94 — Work Experience in Family and Consumer Sciences 4 Units	FASH 12 — Clothing Construction II3 Units36 hours lecture.Degree Appropriate, CSU54 hours lab.Prerequisite: FASH 10	FASH 23 — Patternmaking II 3 Units (May be taken two times for credit.) Degree Appropriate 36 hours lecture. 54 hours lab. Prerequisite: FASH 21 Freequisite: FASH 21
(May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.) 300 hours lab. Prerequisite: Compliance with work experience regulations as designated in the College Catalog	Industry-quick alternatives to traditional construction and tailoring techniques using overlock and single needle machines. Hands-on experience using woven fabrics for tailored clothing and novelty knits. FASH 15 — Fashion Strategies 3 Units 54 hours lecture. Degree Appropriate, CSU	Intermediate pattern drafting and flat patternmaking, with the introduction to the sizing of patterns/grading. Development of patternmaking skills to include two-way stretch knits, swimwear, and complex construction. Students apply commercial manufacturing standards in producing size ranges for misses' and women's wear, to
Provides Family and Consumer Sciences majors with actual on-the-job experience in an approved work site related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that	An investigative overview of sociological, psychological, cultural and fashion industry influences on clothing selection. The elements and principles of design and their impact on dress will be explored.	include skirts, pants, bodices, sleeves and collars. Students who repeat this course will improve skills through further instruction and practice. FASH 24 — Fashion Patternmaking by Computer (May be taken two times for credit.) Degree Appropriate
the hours per week be equally distributed throughout the semester. Work experience placement is not guaranteed but assistance is provided by the Family and Consumer Sciences faculty. Students who repeat this course will improve skills through further instruction and practice. FASHION MERCHANDISING & DESIGN FASH 1 — Fashion Design and CAD Lab 1 Unit	FASH 17 — Textiles3 Units54 hours lecture.Degree Appropriate, CSU, UCExamines the manufacturing of textiles/fabrics and factors thatdetermine the suitability for end use. Topics covered include natural andsynthetic fibers, yarns, fabric construction, dyes, finishes, legislation andcare. Emphasis is placed on selection criteria for textile product designand recent developments in the textile field.	36 hours lecture. 54 hours lab. Advisory: FASH 21 Study of the applications of Computer Aided Design (CAD) patternmaking and grading for the fashion industry. Exploration of drawing techniques, pattern development, flat pattern manipulation and the sizing/grading of patterns. Students who repeat this course will
 (May be taken three times for credit.) (May be taken for Credit/No Credit only.) 54 hours lab. Provides design and computer laboratory experience to supplement regular program, and provides opportunities for students to pursue more advanced projects. Students who repeat this course will improve skills through further instruction and practice. 	FASH 20 — Illustration for Fashion and Costume Design 3 Units(May be taken two times for credit.)Degree Appropriate36 hours lecture.54 hours lab.Drawing techniques for fashion and theatrical costume design.Application of the basic techniques used in drawing a well-proportionedmale and female figure and in rendering garment flats using texture,	improve skills through further instruction and practice. FASH 25 — Fashion Computer-Assisted Drawing (May be taken two times for credit.) Degree Appropriate 36 hours lecture. 54 hours lab. <i>Advisory: FASH 20</i> Drawing production flats, colorization and scanning images using
FASH 8 — Introduction to Fashion3 Units54 hours lecture.Degree Appropriate, CSUExamines scope of the fashion industry from concept to consumer:industry background and technology. Includes design, manufacturing,distribution, sales and promotion with emphasis on career opportunitiesand qualifications.	fabric, and design detail. Students will explore a variety of mediums. Students who repeat this course will improve skills through further instruction and practice.	computer as a drafting tool. Exploration of popular computer techniques and methods suitable for use in apparel industry. Concentration on Adobe Illustrator and Adobe Photoshop. Students who repeat this course will improve skills through further instruction and practice.

FASH 26 — Fashion Computer Assisted Design (May be taken two times for credit.)2 Units Degree Appropriate18 hours lecture.54 hours lab.54 hours lab.Use an advanced, industry-specific CAD system to produce high-level graphic presentations. Create color palettes, textiles, and surface designs; explore texture mapping and how it is used to create a natural drape on the fashion figure; and use the computer as a layout design tool for swatches and vector flatdrawings. Students who repeat this course will improve skills through further instruction and practice.	FASH 63 — Advertising and Promotion3 Units54 hours lecture.Degree Appropriate, CSUCharacteristics and role of advertising and promotion in business are explored. Emphasis is placed on promotional mix, trend and forecast research, and developing a comprehensive multimedia promotion plan including advertising layout and copy. Students may not receive credit for both FASH 63 and BUSS 33.FASH 66 — Visual Merchandising Display 36 hours lecture.3 Units Degree Appropriate, CSU S4 hours lab.	FASH 90T-1 — Topics in Fashion Design: Corset Making2 Units(May be taken four times for credit.)Degree Appropriate(May be taken for Credit/No Credit only.)18 hours lecture.54 hours lab.Prerequisite: FASH 10Provides corset making design experience to supplement regularprogram opportunities for students to pursue more advanced projects.Students who repeat this course will improve skills through furtherinstruction and practice.
FASH 30 — Fashion Design and Product Development I3 Units54 hours lecture.Degree AppropriateAdvisory: FASH 15 and FASH 60Overview of the global environment for product development forfashion. Applies the concepts and methods by which retailers createspecial store-branded merchandise for targeted customer segments.Students will develop financial and design goals, create product conceptand line-boards, and evaluate the aesthetic and commercial results.	34 hours lab. Analysis of visual merchandising applied to interior and exterior displays and floor merchandising within the fashion industry. Includes psychology of store layout, current methods of visual merchandising, and use of mannequins, pinning, and flying. FASH 81 — Work Experience in Fashion 1 Unit (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.) 75 hours lab.	FASH 91 — Field Studies – New York2 Units(May be taken two times for credit.)Degree Appropriate36 hours lecture.Degree Appropriate <i>Corequisite: FASH 90 (May have been taken previously)</i> Fashion industry travel study in New York City with daily scheduledlectures and field studies of the diverse fashion industries to include majordesigners, fashion trend services, retailers, manufacturers, costume/textileexhibits and archives, and museums. Students who repeat this course will
FASH 31 — Fashion Design and Product Development II3 Units36 hours lecture.Degree Appropriate54 hours lab.Prerequisite: FASH 20, FASH 21 or 22, AND FASH 30Intermediate fashion students will create and maintain a personaldesign sketchbook and work with the basic categories of swim wear,active wear, children's and junior clothing. Industrial techniques ofdrawing production flats and design room sketches are taught inaddition to the full fashion figure. Projects will include creation of linesincluding production flats, textile selection, cost sheets, full-colorillustrations and full scale patterns.FASH 32 — Fashion Design and Product Development III3 Units36 hours lecture.Degree Appropriate54 hours lab.Prerequisite: FASH 31Advanced fashion design and product development emphasizing, inportfolio format, a minimum of three lines with production flats, scalepatterns, pattern charts, cost sheets and sample garments. A designsketchbook will be maintained. Includes résumé preparation and job	Provides fashion students with actual on-the-job experience in an approved work site which is related to classroom-based learning.A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. Students who repeat this course will improve skills through further instruction and practice.FASH 82 — Work Experience in Fashion2 Units (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.)150 hours lab.Provides fashion students with actual on-the-job experience in an approved work site which is related to classroom-based learning. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. Students who repeat this course will improve skills through further instruction and practice.FASH 83 — Work Experience in Fashion3 Units (May be taken four times for credit.) Degree Appropriate (May be taken four times for credit.)FASH 83 — Work Experience in Fashion3 Units (May be taken four times for credit.) Degree Appropriate (May be taken four times for credit.)25 hours lab.	improve skills through further instruction and practice. FASH 92 — Field Studies – Fashion Capitals 3 Units (May be taken two times for credit.) Degree Appropriate 54 hours lecture. Corequisite: FASH 90 (May have been taken previously) Fashion industry travel study to fashion capitals with daily scheduled lectures and field studies of the diverse international industry to include designers, fashion trend services, retailers, manufacturers, textile mills, costume textile exhibits and archives, and museums. Students who repeat this course will improve skills through further instruction and practice. FIRETECHNOLOGY FIRE 1 — Fire Protection Organization 3 Units 54 hours lecture. Degree Appropriate, CSU Career options and opportunities in fire protection and related fields; history of fire protection, fire loss analysis, public, quasi-public and private fire protection services; specific fire protection functions; fire chemistry and physics.
seerch appropriate for the fashion design industry. FASH 62 — Retail Store Management and Merchandising 3 Units 54 hours lecture. Degree Appropriate, CSU Principles and practices used in the management and merchandising of retail stores. Includes all aspects of the critical buying function, merchandising, promotional techniques, site selection, layout, staffing, market positioning and customer service. Students may not receive credit for both FASH 62 and BUSS 50.	Provides fashion students with actual on-the-job experience in an approved work site which is related to classroom-based learning. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. Students who repeat this course will improve skills through further instruction and practice. FASH 90 — Field Studies 1 Unit (May be taken two times for credit.) Degree Appropriate 18 hours lecture. Pre-trip lectures on the development of the ready-to-wear industry including background information on specific designer studios, factories, and retail stores to be visited, plus travel information for the trip. Students who repeat this course will improve skills through further instruction and practice.	FIRE 2 — Fire Prevention Technology 3 Units 54 hours lecture. Degree Appropriate, CSU Introduction and history of fire prevention, including codes, ID and correction of hazards, investigation, and safety education. Introduction and safety education. FIRE 3 — Fire Protection Equipment and Systems 3 Units 54 hours lecture. Degree Appropriate, CSU Advisory: FIRE 1 Includes the study of portable fire extinguishing equipment, sprinkler systems, protection systems for special hazards, fire alarm and detection systems, design and operation of sprinkler systems, water supply and fire extinguishers.

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FIRE 4 — Building Construction for Fire Protection3 Units54 hours lecture.Degree Appropriate, CSUAdvisory: FIRE 1Building construction and fire code safety effects on preplanning, engineering, inspections, fire ground operations, fire and building codes relationships.FIRE 5 — Fire Behavior and Combustion 54 hours lecture.3 Units Degree Appropriate, CSU	FIRE 11 — Fire Apparatus and Equipment3 Units54 hours lecture.Degree Appropriate, CSUAdvisory: FIRE 1 or equivalent taken priorDegree Appropriate, CSUMechanized equipment operated by the fire service personnel and regulations pertaining to their use. Includes driving laws, driving techniques, construction and operation of pumping engines, ladder trucks, aerial platforms, specialized equipment, and apparatus maintenance.	FIRE 24 — Fire Instructor 2C 2 Units 40 hours lecture. Degree Appropriate Advisory: FIRE 21 or equivalent taken prior Preparation for fire personnel instructor/training officer. Principles of media use in the instruction process, selection of audio-visual and instructional media, employment of basic advanced forms of instructional media, use of computers in the instructional process, individual instructional programs. A State Board of Fire Science accredited course.
Advisory: FIRE 1 Theory of how and why fires start, spread and are controlled; in-depth study of fire chemistry and physics, fire characteristics of materials, extinguishing of materials, extinguishing agents and fire control techniques.	FIRE 12 — Wildland Fire Control4 Units80 hours lecture.Degree Appropriate, CSUAdvisory: Eligibility for ENGL 68Addresses wildland fire behavior, safety considerations, strategy, tactics, and operational differences within the wildland urban interface.	FIRE 30 — Fire Management 1 2 Units 40 hours lecture. Degree Appropriate Advisory: FIRE 8 or FIRE 86 or equivalent taken prior State Board of Fire Services accredited course in fire management
FIRE 6 — Hazardous Materials/ICS3 Units54 hours lecture.Degree AppropriateHazardous chemicals, their physical properties, use in industry, characteristics when involved in spills, fire and accidents. Information regarding emergency procedures, legal requirements, compliance to regulations, health effects and treatment, fire department protocols and responsibilities that meet OSHA requirements.FIRE 7 — Fire Fighting Tactics and Strategy3 Units	FIRE 20 — Fire Instructor 1A2 Units40 hours lecture.Degree AppropriateAdvisory: FIRE 86 or equivalent taken priorState Board of Fire Service accredited course in fire service instructionaltechniques, including lesson plan development, performance goals,evaluation techniques, instructor performance goals, instructorresponsibilities, the learning process, instructional aids and trainingrecords. This course applies to California Fire Service Training andEducation System certifications.	designed to develop an understanding of the changing role of the fire officer, building leadership skills, appraising and developing employee performance and communication skills. FIRE 31 — Fire Management 2A – Organizational Development and Human Relations 2 Units 40 hours lecture. Degree Appropriate Advisory: FIRE 30 taken prior Level II California Fire Service Training and Education System chief officers certified course in basic principles of organization and
54 hours lecture. Degree Appropriate, CSU Advisory: FIRE 1 or equivalent taken prior Principles of fire control through utilization of manpower, equipment and extinguishing agents, fire command and control procedures, utilization on types of building construction in fire control, review of fire chemistry, pre-fireplanning, organized approach to decision making on the fire scene, basic fire fighting tactics and strategy. FIRE 8 — Fire Company Organization and Management 3 Units 54 hours lecture. 3 Units	FIRE 21 — Fire Instructor 1B2 Units40 hours lecture.Degree AppropriateAdvisory: FIRE 20 or equivalent taken priorState Board of Fire Service accredited course in fire service instructionaltechniques, including methods of instruction, use of audio-visualequipment, employment of instructional aids, test construction, teachingdemonstrations and reducing failure rates. This course applies toCalifornia Fire Service Training and Educational Systems certifications.	development of general management skills. Includes problem solving, cultural diversity, motivation, performance management and organizational politics. FIRE 32 — Fire Management 2B – Fire Service Financial Management 40 hours lecture. Advisory: FIRE 30 Budget preparation and financial management of personnel, stations,
Advisory: FIRE 1 or equivalent taken prior Fire department and company organization, the company officer, personnel administration and communication as it impacts fire equipment, maintenance, training, fire prevention, fire fighting, company fire fighting capabilities, records and reports. FIRE 9 — Fire Hydraulics 3 Units 54 hours lecture. Degree Appropriate, CSU Advisory: FIRE 1 or equivalent taken prior and eligibility for MATH 51	FIRE 22 — Fire Instructor 2A2 Units40 hours lecture.Degree AppropriateAdvisory: FIRE 21 or equivalent taken priorDegree AppropriateLevel II preparation for fire science instructors training officers with emphasis on techniques of evaluation, test planning, constructing and using manipulative tests, test analysis, critiques, test security and records. A State Board of Fire Science accredited course.FIRE 23 — Fire Instructor 2B2 Units	fire equipment, and other fire department resources. FIRE 33 — Fire Management 2D – Master Planning 2 Units in the Fire Service 40 hours lecture. Degree Appropriate Advisory: FIRE 31 For fire personnel responsible for master planning fire protection needs for a city, county or state fire agency. Covers program and master planning, forecasting, systems, policy analysis and design.
Review of basic mathematics, hydraulic laws and formulas as applied to fire service, application of formulas and mental calculation to hydraulic problems, water supply problems, underwriter requirements for pumps.FIRE 10 — Arson and Fire Investigation3 Units54 hours lecture.Degree Appropriate, CSUAdvisory: FIRE 1 or equivalent taken priorIntroduction to cause, origin, arson, incendiarism, related laws and types of incendiary fires. Methods of determining fire cause, recognizing and preserving evidence, interviewing and detaining witnesses, procedures for handling juveniles, court procedure and testimony.	40 hours lecture. Degree Appropriate Advisory: FIRE 21 or equivalent taken prior Organizational communication skills for training officers with emphasis on leadership, interpersonal relations, developing and conducting staff meetings, assertive and argumentative presentations and encouraging staff participation. A State Board of Fire Science accredited course.	FIRE 34 — Fire Management 2E – Personnel and Labor 2 Units40 hours lecture.Degree AppropriateAdvisory: FIRE 31For fire supervisors and managers responsible for supervision,implementing department policies, diversity, labor relations, humanresources and legal issues.

FIRE 40 — Fire Prevention 1A2 Units40 hours lecture.Degree AppropriateAdvisory: FIRE 5, FIRE 86, or equivalent taken priorFirst Level I course qualifies the student as a Certified Prevention Officerthrough the California Fire Service Training and Education System.Includes responsibilities of fire prevention personnel, procedures for		FIRE 56 — Fire Command 2E – Wildland Fire Control 2 Units 40 hours lecture. Degree Appropriate Advisory: FIRE 51 For supervisory and managerial fire service personnel responsible for management and coordination of an extended wildland fire incident.
correcting hazards, origin and history of fire prevention efforts in the U.S., basic fire prevention functions, occupancy identification, building preparation, record management, exit requirements, electrical hazards,	action processes at a working fire, fire behavior, fireground resources, operations and management. FIRE 51 — Fire Command 1B 2 Units	FIRE 60 — Fire Investigation 1A 2 Units 40 hours lecture. Degree Appropriate Advisory: FIRE 10, FIRE 86, or equivalent taken prior Level I California Fire Service Training and Education System certified
Plan review and safety education. FIRE 41 — Fire Prevention 1B 2 Units 40 hours lecture. Degree Appropriate Advisory: FIRE 40 or equivalent taken prior Socrand Education Sustem	40 hours lecture. Degree Appropriate <i>Advisory: FIRE 50 or equivalent taken prior</i> Level I California Fire Service Training and Education System certified course designed for first-in incident commander and company officers.	course designed for firefighters, fire investigators and law enforcement officers assigned to fire investigation. Includes a basic overview of fire scene investigation with the focus on fire scene indicators and determine the fire's cause and origin.
Second Level I California Fire Service Training and Education System certified course in fire prevention. Includes relationship of life safety codes and building construction principles, exiting requirements, fire	Provides incident management information on tactics, strategies, and scene management for multi-casualty incidents, hazardous materials incidents, and wildland fires.	FIRE 61 — Fire Investigation 1B2 Units40 hours lecture.Degree AppropriateAdvisory: FIRE 60 or equivalent taken prior
protection systems, basic electrical theory, fire drills and training, fire inspection reports, plans specifications processing, and fire prevention complaints. FIRE 42 — Fire Prevention 1C 2 Units	FIRE 52 — Fire Command 2A – Command Tactics at Major Fires 2 Units 40 hours lecture. Non-Degree Credit Advisory: FIRE 51 Non-Degree Credit	Level I California Fire Service Training and Education System certified course designed for firefighters and investigation personnel. Includes juvenile fire setter, report writing, evidence preservation and collection, interview techniques, motives and fatalities.
40 hours lecture. Degree Appropriate <i>Advisory: FIRE 40 and FIRE 41 or equivalent taken prior</i> Third Level I California Fire Service Training and Education System	For fire officers managing fires using the Incident Command System (ICS) when commanding multiple alarms. Includes unified command structures and areas of geographical divisions.	FIRE 62 — Fire Investigation 2A – Fire Cause 2 Units Determination 1
certified course in fire prevention. Includes physical properties of flammable and combustible liquids, storage practices, transportation and controlling of flammable and liquified gases. FIRE 43 — Fire Prevention 2A 2 Units	FIRE 53 — Fire Command 2B – Management of Major 2 Units Hazardous Material Incidents 40 hours lecture. Degree Appropriate Advisory: FIRE 51	40 hours lecture.Non-Degree CreditAdvisory: FIRE 60, FIRE 61Designed for in-service fire personnel completing their Fire InvestigationII Certification and provides the information to successfully investigate, apprehend, and convict arsonists.
40 hours lecture. Degree Appropriate <i>Advisory: FIRE 40, FIRE 41, FIRE 42 or equivalent taken prior</i> First Level II California Fire Service Training and Education System	For fire officers responsible for hazardous material responses. Includes community planning, research, legislation enforcement and litigation from hazardous material responses.	FIRE 63 — Fire Investigation 2B – Fire Cause 2 Units Determination 2
certified course in fire prevention for career fire personnel. Includes standards, laws and regulations pertaining to construction requirements for buildings, sprinklers and alarm systems, installation procedures and requirements associated with fire protection systems.	FIRE 54 — Fire Command 2C – High-Rise Fire Tactics 2 Units 40 hours lecture. Degree Appropriate Advisory: FIRE 51 A system-based approach applied to high-rise fires. Includes pre-fire	40 hours lecture. Non-Degree Credit Advisory: FIRE 61 and FIRE 62 Designed for in-service fire personnel completing their Fire Investigation II Certification that builds on the Fire Investigation 1 course (FIRE 62).
FIRE 44 — Fire Prevention 2B2 Units40 hours lecture.Degree AppropriateAdvisory: FIRE 40, FIRE 41, FIRE 42, or equivalent taken prior	planning, building inventory, problem identification, ventilation methods, water supply, elevators, life safety and strategy and tactic operations.	FIRE 68 — Title 19/24 Workshop 1 Unit (May be taken for Credit/No Credit only.) Degree Appropriate 24 hours lecture. Advisory: FIRE 40 or equivalent taken prior
Second Level II California Fire Service Training and Education Systems certified course in fire prevention for fire personnel. Includes interpreting the fire and building codes, California codes of regulation pertaining to fire and life safety standards.	FIRE 55 — Fire Command 2D – Disaster Planning and Management 40 hours lecture. Degree Appropriate Advisory: FIRE 51 taken prior Degree Appropriate	California Fire Service Training and Education System certified accredited course in fire prevention for fire personnel. Includes standards required for understanding, interpreting and applying State Fire Marshall's Regulation requirements based on type of occupancy, construction, fire extinguishing
FIRE 45 — Fire Prevention 2C2 Units40 hours lecture.Degree AppropriateAdvisory: FIRE 40, FIRE 41, FIRE 42, or equivalent taken priorThird Level II California Fire Service Training and Education Systemcertified course in fire prevention for fire personnel. Includes standardsrequired for industrial ovens, cleaning and finishing processes, welding,refrigeration systems, medical gasses and fireworks.	Level II California Fire Service Training and Education System chief officer certified course for supervisory and managerial fire service personnel responsible for emergency disaster planning and implementing the Standard Emergency Management System, emphasizing the integrated team approach to managing emergencies.	systems, exits, alarm systems and institutional occupancies.

FIRE 85 — Special Issues in Fire Technology2 Units(May be taken four times for credit.)Degree Appropriate(May be taken for Credit/No Credit only.)36 hours lecture.36 hours lecture.Develops knowledge and techniques to enable fire service employees tounderstand and handle the special problems that arise in variousphases of the fire science. Special emphasis will be placed on aparticular problem as the need arises. Students who repeat this course	FIRE 96 — Work Experience Fire Science 2 Units (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.) 150 hours activity. 150 hours activity. Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog Work experience in fire service at an approved work site which is related to classroom instruction. A minimum of 75 paid or 60 non-paid	Continued development of competencies with the goal of attaining intermediate high-level proficiency in French. Increasing emphasis on reading and writing. Extensive exposure to cultural elements such as art, music, film, and history from France and other French-speaking countries. FRCH 5 — Advanced French 4 Units Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.)
will improve skills through further instruction and practice. FIRE 86 — Basic Fire Academy 12 Units 138 hours lecture. Degree Appropriate 382 hours lab. Prerequisite: FIRE 1 through FIRE 6 or equivalent, PE 50 or equivalent, EMT certified, and either PE-F 50 or PE-F-51 or PE-F 52 (or equivalent) Corequisite: PE-F 53	clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. This course is available to students achieving a minimum of 12 units in fire service. Students who repeat this course will improve skills through further instruction and practice. FRENCH	72 hours lecture. Prerequisite: FRCH 4 or equivalent Provides further insight into the cultures of France and other French- speaking countries to reach an advanced level of proficiency in the language. Includes analysis of short literary works from diverse cultures, and group discussions about contemporary topics found in films and newspaper articles.
Instruction in the proper use of standard fire department apparatus and equipment, salvage covers and fire extinguishment techniques, etc., in accordance with the State Board of Fire Services. Prepares students to meet manipulative skills standards established by the local fire agencies, associations and unions. FIRE 88 — Explorer Fire Academy 2 Units	FRCH 1 — Elementary French4 Units(CAN FREN 2)Degree Appropriate, CSU, UCFRCH 1+2 = CAN FREN SEQ A72 hours lecture.Intended for students without previous exposure to French. Begins todevelop the ability to converse, read and write in French. Emphasis is onoral proficiency. Includes the study of principles of language learning,	FRCH 6 — Continuing Advanced French 4 Units Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 72 hours lecture. Prerequisite: FRCH 5 or equivalent Extensive reading and analysis of short literary works from diverse
Spring Semester Non-Degree Credit (May be taken for Credit/No Credit only.) 22 hours lecture.	pronunciation, basic vocabulary and grammatical structures. Extensive exposure to the cultures of French-speaking countries.	French and French-speaking cultures. Discussion of films, newspaper articles and contemporary topics. Develops fluency in French through group discussions, oral presentations, and writing.
48 hours lab. Specialized Fire Academy designed for fire explorers. Instruction in the proper use of fire and rescue apparatus and equipment and fire extinguishing techniques in accordance with the State of California Fire Marshall's Office.	FRCH 2 — Continuing Elementary French4 Units(CAN FREN 4)Degree Appropriate, CSU, UCFRCH 1+2 = CAN FREN SEQ A72 hours lecture.Prerequisite: FRCH 1 or two years of high school French or equivalentFurther development of conversational, reading and writing skills in	FRCH 35 — French Language Laboratory (May be taken four times for credit.).5 Unit Degree Appropriate, CSU (May be taken for Credit/No Credit only.)27 hours lab.An independent study laboratory course for students who wish to
FIRE 89 — Firefighter Exam Preparation.5 Unit(May be taken four times for credit.)Non-Degree Credit(May be taken for Credit/No Credit only.)8 hours lecture.	French, with emphasis on communicative skills, expansion of vocabulary	improve their skills in French; may supplement any other French course. Requires 24 hours in the language laboratory to receive credit. Students who repeat this course will improve skills through further practice and drill.
Prepares applicants for entry-level firefighter positions for the CWH Research, Inc. Firefighter Exam, offered in conjunction with the Los Angeles Area Fire Chief's Association. Two four-hour sessions including administration of written examination.	FRCH 3 — Intermediate French4 Units(CAN FREN 8)Degree Appropriate, CSU, UCFRCH 3+4 = CAN FREN SEQ B(May be taken for option of letter grade or Credit/No Credit.)72 hours lecture.	FRCH 52 — Conversational French 1 3 Units Degree Appropriate 0 (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. 54 hours lecture. 54 hours lecture.
FIRE 91 — Fire Academy Ladders 1 Unit Summer Semester Non-Degree Credit (May be taken for Credit/No Credit only.) 8 hours lecture. 22 hours lebut 22 hours lebut	Prerequisite: FRCH 2 or equivalent Expansion of vocabulary and structural components. Further development of communicative proficiency with increasing emphasis on reading and writing. Extensive exposure to culture from France and other French-	Prerequisite: FRCH 1 or equivalent Development of intermediate French conversational skills. Emphasis on collaborative activities and practical use of the language. Extensive exposure to French culture. Grammar is presented in context.
32 hours lab. Intensive training in ladder manipulation to prepare students for Fire Academy and physical fitness tests given by the fire departments.	speaking countries. FRCH 4 — Continuing Intermediate French 4 Units (CAN FREN10) Degree Appropriate, CSU, UC FRCH 3+4 = CAN FREN SEQ B (May be taken for option of letter grade or Credit/No Credit.) 72 hours lecture. Percentivities. EPCH 2 or equivalent	FRCH 53 — Intermediate Conversational French 3 Units Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. Prerequisite: FRCH 2 or FRCH 52 or equivalent Develops intermediate level fluency through expansion of vocabulary and practical use of language.

Prerequisite: FRCH 3 or equivalent

FRCH 54 — Continuing Intermediate Conversational French 3 Units(May be taken two times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)54 hours lecture.Prerequisite: FRCH 3 or FRCH 53 or equivalentDevelops intermediate-high fluency through further expansion ofvocabulary and practical use of language. Students who repeat thiscourse will improve skills through further instruction and practice.	GEOG 1LH — Physical Geography Laboratory – Honors1 Unit54 hours lab.Degree Appropriate, CSU, UCPrerequisite: Acceptance into the Honors ProgramCorequisite: GEOG 1 or GEOG 1H (May have been taken previously)Observations, experiments and demonstrations in a laboratory setting toexplore natural earth processes and systems. An honors course designedto provide an enriched experience. Students may not receive credit forboth GEOG 1L and GEOG 1LH.	GEOG 10 — Introduction to Geographic Information Systems 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Advisory: Eligibility for ENGL 68 Hands-on training in the principles, theory and operations of geographic information systems (GIS), including geospatial data models, analytical functions, data quality, map design and visual communication, and social and environmental applications of GIS. GEOG 11 — Intermediate GIS 3 Units
FRCH 60 — French Culture Through Cinema 3 Units Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. French culture and history as presented in classic and recent French films. Analysis of characters and political, social and artistic movements in France and other Francophone countries as reflected in the works of	GEOG 2 — Human Geography3 Units(CAN GEOG 4)Degree Appropriate, CSU, UC54 hours lecture.Prerequisite: Eligibility for ENGL 68Introduction to human geography with emphasis on critical areas ofinquiry and research. Focus on the interconnections of place and processin several sites around the globe; comprehension of important terms	Spring SemesterDegree Appropriate54 hours lecture.Prerequisite: GEOG 10Surveys GIS fundamentals including hands on experience using hardware/software. Emphasizes vector-based data using ArcGIS and raster-based data using the software extensions.
French-speaking film directors and writers. Lectures and class discussions conducted in English. All films with English subtitles. GEOGRAPHY GEOG 1 — Elements of Physical Geography (CAN GEOG 2) Degree Appropriate, CSU, UC 54 hours lecture.	and concepts; and basic literacy in the geography of place names and in world regional understanding. GEOG 2H — Human Geography – Honors 3 Units 54 hours lecture. Degree Appropriate, CSU, UC <i>Prerequisite: Acceptance into the Honors Program</i> Introduction to human geography with emphasis on critical areas of	GEOG 30 — Geography of California3 Units54 hours lecture.Degree Appropriate, CSU, UCThematic approach to issues, processes and topics relevant to the study of California. Includes an examination of the physical processes that shape the landscapes of California, the interaction of humans with these physical processes (particularly the importance of water), and the cultural and social landscapes that have evolved as a result of this
Prerequisite: Eligibility for ENGL 68 Study of the natural processes that interact to create the Earth's varying physical environments with emphasis on the inter-relationships of natural processes and systems. General atmospheric circulation, Earth- sun relationships, oceanic circulation, water and energy budgets, plate tectonics, and the shaping of the physical landscape.	inquiry and research. Focus on the interconnections of place and process in several sites around the globe; comprehension of important terms and concepts; and basic literacy in the geography of place names and in world regional understanding. An honors course designed to provide an enriched experience. Students may not receive credit for both GEOG 2 and GEOG 2H. GEOG 3 — Map Reading and Interpretation 3 Units	human-environment interface. GEOG 99 — Special Projects in Geography 2 Units (May be taken four times for credit.) Degree Appropriate, CSU 36 hours lecture. Offers selected students recognition for their academic interest and ability and the opportunity to explore their disciplines in-depth. Various departments sometimes offer Special Projects courses. The content of
GEOG 1H — Elements of Physical Geography – Honors3 Units54 hours lecture.Degree Appropriate, CSU, UCPrerequisite: Acceptance into the Honors ProgramStudy of the natural processes that interact to create the Earth's varyingphysical environments with emphasis on the inter-relationships ofnatural processes and systems. General atmospheric circulation, Earth-	54 hours lecture. Degree Appropriate, CSU Provides basic map reading skills with an emphasis on map projections, earth grid systems, principles of map reading, interpretation and use of an atlas. Introduction to skills needed to use and appreciate maps as a form of communication and as a research tool.	each and the methods of study vary from semester to semester and depend on the particular project under consideration. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure enhanced proficiencies.
sun relationships, oceanic circulation, water and energy budgets, plate tectonics, and the shaping of the physical landscape. An honors course designed to provide an enriched experience. Students may not receive credit for both GEOG 1 and GEOG 1H. GEOG 1L — Physical Geography Laboratory 1 Unit 54 hours lab. Degree Appropriate, CSU, UC	GEOG 5 — World Regional Geography3 Units54 hours lecture.Degree Appropriate, CSU, UCAdvisory: Eligibility for ENGL 68Developmental study of the world's regions, addressing the majorcountries in terms of population, resources, economic development,physical environment, and geographic problems.	GEOL 1 — Physical Geology4 Units(CAN GEOL 2)Degree Appropriate, CSU, UC54 hours lecture.54 hours lab.Prerequisite: Eligibility for MATH 51This beginning course in geology stresses the beneficial and destructive
<i>Corequisite: GEOG 1 or GEOG 1H (May have been taken previously)</i> Observations, experiments and demonstrations in a laboratory setting to explore natural earth processes and systems.	GEOG 8 — The Urban World3 Units Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)54 hours lecture.The geographical analysis of past and current patterns of world urbanization. Emphasis will be placed on city origins, growth, development, and current problems.	forces of nature and their causes. It includes a study of the development of landscapes, formation of soils, origin of minerals and rocks, geologic work of ground water, the phenomena of earthquake, volcanism, metamorphism, deformation of rocks and other basic concepts of geology important to man's progress and welfare. Field trips required. This is a first course in geology for earth science and geology majors.

GEOL 2 — Historical Geology4 UnitsSpring SemesterDegree Appropriate, CSU, UC(CAN GEOL 4)54 hours lecture.54 hours lab.Prerequisite: GEOL 1 or equivalentThis course traces the sequence of geological events of a developing earth as traced from a primordial beginning to the changes that are	Corequisite: GEOL 8 or GEOL 8H (May have been taken previously)Laboratory applications and problem-solving in geology, oceanography, meteorology, and astronomy. Recommended for students needing a lab to transfer to a 4-year college/university.GEOL 9 — Environmental Geology3 Units	GEOL 14 — Field Geology, Sierra Nevada 3 Units Degree Appropriate, CSU Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 36 hours lab. Field studies of the Sierra Nevada geologic provinces and the surrounding areas.
occurring now. The interrelationship of the biological and physical processes that are shaping our planet and particularly our evolving and changing continent. Field investigations are required. GEOL 3 — Paleontology, Life of the Past 4 Units Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.)	54 hours lecture. Degree Appropriate, CSU, UC For non-science majors. Relevant aspects of the geological environment and the problems caused by modern humans as they use the earth and its resources. Geologic hazards, including earthquakes, volcanoes, landslides, floods, subsidence. Emphasis on geological viewpoints concerning waste disposal, pollution, geothermal energy, fossil fuels, and mining. Geologic practices related to sound land management,	GEOL 15 — Field Geology, Mojave Desert 3 Units Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 54 hours lab. Field studies of the geology of the Mojave Desert and surrounding areas.
54 hours lecture. 54 hours lab. An introduction to paleontology including the history of paleontology, methods in paleontology, processes of evolution and the floral and faunal succession through geologic time.	conservation of resources, and protection of the environment. Field trips included. GEOL 10 — Natural Disasters 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Surveys the hazards faced by humans from the natural environment.	GEOL 16 — Field Geology, Coast Ranges 3 Units Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 54 hours lab. Field studies of the geology of the Coast Ranges and the San Andreas
GEOL 6 — Earthquakes1 Unit Degree Appropriate, CSU(May be taken for option of letter grade or Credit/No Credit.)18 hours lecture.Discussions of seismic hazards in relation to life and property. Includes the study of seismic safety legislation, socio-economic impacts and prediction of earthquakes.GEOL 7 — Geology of California3 Units	Analyzes a variety of hazards from a geological perspective. Studies the impact humans have on influencing or exacerbating natural disasters. Includes the role of responding to natural disasters. Field trips included. GEOL 12A — Natural History of California 3 Units Fall Semester Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 54 hours lab.	Fault System. GEOL 17 — Field Geology, Death Valley 3 Units Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 54 hours lab. Field studies of the geology of Death Valley and the Basin and Range Province.
GEOL 7 — Geology of California S onits 54 hours lecture. Degree Appropriate, CSU, UC A survey course in the geological development of the State of California. Evolution of the State's natural provinces and their geologic development as it influences and impacts the adjacent areas. Topics include State resources, volcanic activity, coastline development, tectonic development, earthquakes, and geologic principles. Field trips may be required. GEOL 8 — Earth Science 3 Units	Field study of the natural history of the Sierra Nevada and adjacent regions. One 3-day and one 4-day weekend field trip will be required. Students may not receive credit for both BIOL 12A and GEOL 12A. GEOL 12B — Natural History of California 3 Units Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 54 hours lab.	GEOL 19 — Geology Field Studies 2 Units Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 108 hours lecture. 324 hours lab. Geologic field studies of the Southern California landscape to include the Transverse Ranges, Coast Ranges, San Andreas Fault, Great Valley, Sierra Nevada, Owens Valley, and the western Mojave Desert.
54 hours lecture. Degree Appropriate, CSU, UC A survey course that introduces fundamentals of geology, oceanography, meteorology, and astronomy. The companion Earth Science laboratory (GEOL 8L) is recommended for students needing a lab to transfer to a 4-year college/university field trips are required.	Field study of Peninsular Ranges, Transverse Ranges, Mojave and Colorado Deserts of Southern California. Laboratory work is done during one 3-day and one 4-day weekend field trip. Students may not receive credit for both BIOL 12B and GEOL 12B.GEOL 13 — Evolution of the Earth3 Units	GEOL 99 — Special Projects in Geology 36 hours lecture.2 Units Degree Appropriate, CSU In order to offer students the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study

GERM 1 — Elementary German 4 Units (CAN GERM 2) Degree Appropriate, CSU, UC GERM 1+2 = CAN GERM SEQ A 72 hours lecture. Prerequisite: Eligibility for ENGL 68 For students with no previous German. Develops the ability to converse, read, and write in German. Emphasis on oral proficiency. Includes the study of essentials of pronunciation, vocabulary, idioms, and grammatical structures along with an introduction to Germanic culture.	54 nours lecture. The rise and development of civilization from the Stone Age to 1500. HIST 3H — History of World Civilization – Honors 3 Units HIST 3H+4H = CAN HIST SEQ C Degree Appropriate, CSU, UC 54 hours lecture. Prerequisite: Acceptance into the Honors Program The rise and development of civilization from the Stone Age to 1500. An	Satisfies the requirement for a course in American history, including the study of American institutions and ideas and the Constitution of the United States as required by Title 5 of the California Administrative Code. An honors course designed to provide an enriched experience. Students may not receive credit for both HIST 7 and HIST 7H.HIST 8 — History of the United States (CAN HIST10)3 Units Degree Appropriate, CSU, UC HIST 7+8 = CAN HIST SEQ B 54 hours lecture. Prerequisite: Eligibility for ENGL 1A
GERM 2 — Continuing Elementary German4 Units(CAN GERM 4)Degree Appropriate, CSU, UCGERM 1+2 = CAN GERM SEQ A72 hours lecture.Prerequisite: GERM 1 or two years of high school German or equivalentFurther development of conversational reading and writing skills inGerman with emphasis on communication skills, expansion of vocabulary, and understanding of structure. Further study of Germanic culture.		Survey of American history from 1865 to the present. Designed for history, social science, or humanities majors, or for transfer students who need a year course in United States history to meet general education requirements. Satisfies the requirement for a course in American history, including the study of American institutions and ideals and the principles of State and local government as required by Title 5 of the California Administrative Code. HIST 8H — History of the United States – Honors 3 Units
GERM 3 — Intermediate German 4 Units (CAN GERM 8) Degree Appropriate, CSU, UC GERM 3+4 = CAN GERM SEQ B (May be taken for option of letter grade or Credit/No Credit.) 72 hours lecture. Prerequisite: GERM 2 or three years of high school German or equivalent Further development of communicative proficiency in German and exploration of Germanic culture. Further study and review of grammar and expansion of vocabulary. Increasing emphasis on reading and	HIST 3H+4H = CAN HIST SEQ C Degree Appropriate, CSU, UC 54 hours lecture.	(CAN HIST10) Degree Appropriate, CSU, UC HIST 7H+8H = CAN HIST SEQ B 54 hours lecture. Prerequisite: Acceptance into the Honors Program Survey of American history from 1865 to the present. Designed for history, social science, or humanities majors, or for transfer students who need a year course in United States history to meet general education requirements. Satisfies the requirement for a course in American history, including the study of American institutions and ideals and the principles of State and local government as required by Title 5 of the California Administrative
writing in German. GERM 35 — German Language Laboratory .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU (May be taken for Credit/No Credit only.) 27 hours lab. An independent study laboratory course for students who wish to improve their skills in German. May supplement any current or previous German course. Requires 24 hours using Language Learning Center resources to receive credit. Students who repeat this course will improve their language skills and expand their knowledge of Germanic cultures.	Prerequisite: Eligibility for ENGL 1A Survey of American history from Native American origins through post- Civil War Reconstruction with an encompassing approach to the United States and its major ethnic and social groups. Explores the influence of the geography and environment of North America and the ethnic, social, and religious complexity of the population. Also examines political, philosophical, and intellectual influences on the Founding Fathers, American political institutions, and the citizens of the country. Satisfies the requirement for a course in American history, including the study of American institutions and ideas and the Constitution of the United States	Code. An honors course designed to provide an enriched experience.Students may not receive credit for both HIST 8 and HIST 8H.HIST 10 — History of Asia3 Units54 hours lecture.Degree Appropriate, CSU, UCSurvey history of China, Japan, India, South Asia, and Southeast Asiafrom the pre-historical era to 1600. Topics include: oriental mysticismand religions, art and literature, warfare and political systems, thesplendor of the imperial courts and the lives of the peasants.HIST 11 — History of Asia3 Units54 hours lecture.Degree Appropriate, CSU, UC
HISTORY HIST 1 — History of the United States 3 Units 54 hours lecture. Degree Appropriate, CSU, UC <i>Prerequisite: Eligibility for ENGL 68</i> A survey of the history of the United States from colonial times to the present designed for transfer students who need a one-semester course in United States history to meet general education requirements. (Social Science majors should take History 7-8.) Satisfies the requirement for a course in American history, including the study of American institutions and ideals as required by Title 5 of the California Administrative Code.	as required by Title 5 of the California Administrative Code. HIST 7H — History of the United States – Honors 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Prerequisite: Acceptance into the Honors Program Survey of American history from Native American origins through post- Civil War Reconstruction with an encompassing approach to the United States and its major ethnic and social groups. Explores the influence of the geography and environment of North America and the ethnic, social, and religious complexity of the population. Also examines political, philosophical, and intellectual influences on the Founding Fathers, American political institutions, and the citizens of the country.	Survey history of China, Japan, Southeast Asia, India, and South Asia from 1600 to the 20th century. Emphasizes the confrontation between Asia and the Western world. Topics include: economic and political systems, religion and art, the splendor of the courts, peasant life and the civil and international wars.

HIST 16 — The Wild West – A History, 1800-1890 3 Units	HIST 36 — Women in American History – Beyond the 3 Units	HISTOTECHNOLOGY
Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. <i>Prerequisite: Eligibility for ENGL 68</i> Surveys the history of the Trans-Mississippi West to acquaint students with the historical significance, events and personalities which make up 19th Century American history.	Stereotypes 54 hours lecture. Degree Appropriate, CSU, UC An introductory course placing women's experience within the context of the major themes of American history, addressing issues and debates related to gender construction and identity. Political, economic, and social currents as well as cross cultural dynamics are critically examined and analyzed as are gender theory and practices in the context of ethnicity, class, and nation. This course satisfies the requirement for a	HT 1 — Introduction to Histotechnology 18 hours lecture.1 Unit Degree AppropriateAdvisory: Eligibility for ENGL 68An overview of the role of histotechnicians in preparation and analysis of tissues samples for diagnostic and research purposes. Introduction to Internet resources, support organizations and periodical references for histotechnicians, as well as regulatory agencies. Students will set up an
HIST 19 — History of Mexico 3 Units 54 hours lecture. Degree Appropriate, CSU, UC The cultural and social history of the Mexican people from pre-Colombian civilization to modern Mexico	course in American history including the study of American institutions and ideals, as required by Title 5 of the California Administrative Code. HIST 39 — California History 3 Units	educational plan and portfolio to be used throughout the remainder of the program. HT 2 — Scientific Basics for Histologic Technicians 3 Units
civilization to modern Mexico. HIST 30 — History of the African American 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Prerequisite: Eligibility for ENGL 68 In the general framework of the U.S. historical process, surveys the	54 hours lecture. Degree Appropriate, CSU, UC <i>Prerequisite: Eligibility for ENGL 68</i> The social, intellectual, economic and political development of California from earliest times to the present, against the background of Latin America, the Pacific and the United States.	54 hours lecture. Degree Appropriate <i>Advisory: Eligibility for ENGL 68</i> Defines all aspects of general laboratory issues including general laboratory protocols (GLP's), safety, ethics, and terminology relative to the preparation of tissue samples.
history of African Americans from the African genesis to 1865, including historical processes and their impact on modern U.S. society. A critical analysis will be made of the contributions of African Americans to the historical development of the United States, and the transformations that have occurred as a result. Satisfies the requirement for a course in American institutions and ideals and the Constitution of the United States as required by Title 5 of the California Administrative Code.	HIST 40 — History of the Mexican American 3 Units 54 hours lecture. Degree Appropriate, CSU, UC <i>Prerequisite: Eligibility for ENGL 68</i> A survey of United States history from colonial times to the present with a special emphasis on the role of La Raza (Hispanics) in the development of the nation. Satisfies the requirement for a course in American History, including the study of American institutions and	HT 10 — Histology3 Units36 hours lecture.Degree Appropriate54 hours lab.Advisory: ANAT 35Microscopy, cell structure, cell reproduction and staining. Identification of tissues, organs and special microstructures, and their detailed morphology. Involves distinguishing normal features from pathological
HIST 31 — History of the African American 3 Units 54 hours lecture. Degree Appropriate, CSU, UC In the general framework of the U.S. historical process, surveys the history of African Americans from the Reconstruction period to the present, including historical processes and their impact on modern U.S. society. A critical analysis will be made of the contributions of African Americans to the historical development of the United States, and the transformations that have occurred as a result. Satisfies the requirement for a course in American institutions and ideals and the Constitution of the United States as required by Title 5 of the California Administrative Code.	ideals as required by Title 5 of the California Administrative Code. HIST 44 — History of Native Americans 3 Units 54 hours lecture. Degree Appropriate, CSU Advisory: Eligibility for ENGL 1A Survey of the history of the United States from Colonial times to the present with a special emphasis on the role of Native Americans. Examines the role Euro-American social, political, and economic movements play in the Native American experience and the mutual relationships generated through these factors. Critically analyzes how the Native American narrative is woven into the fabric of U.S. history	conditions. HT 12 — Beginning Histotechniques 5 Units 54 hours lecture. Degree Appropriate 108 hours lab. Prerequisite: HT 2 Advisory: MICR 22 Practical applications and skill-building in tissue fixation, processing, embedding, sectioning, hematoxylin-eosin staining, and microorganism staining. Quality control as it relates to routine histological techniques and equipment.
HIST 35 — History of Africa 3 Units Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. Surveys African civilization with major emphasis placed upon political, social and cultural developments. African history will be traced from prehistoric times through colonialism and the emergence of independent African states in the 20th century. The American relationship with Africa will be considered.	and is an essential component of the complete American story.HIST 99 — Special Projects in History2 Units(May be taken four times for credit.)Degree Appropriate, CSU36 hours lecture.Degree Appropriate, CSUTo offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to a greater depth, the various departments from time-to-time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced.	HT 17 — Work Experience in Histotechnology1 Unit(May be taken four times for credit.)Degree Appropriate(May be taken for Credit/No Credit only.)75 hours lab. <i>Prerequisite:</i> HT 12, and compliance with Work Experience regulations as designated in the College CatalogProvides histotechnology students with actual on-the-job experience in an approved work setting which is related to classroom instruction. A minimum of 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice. Placement by Program Director.

		course sesemptions
HT 18 — Work Experience in Histotechnology 2 Units (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.) 150 hours lab. 150 hours lab. Prerequisite: HT 12, and compliance with Work Experience regulations as designated in the College Catalog Provides histotechnology students with actual on-the-job experience in an approved work setting which is related to classroom instruction. A	HRM 52 — Food Safety and Sanitation1.5 Units27 hours lecture.Degree Appropriate, CSUPrerequisite: Eligibility for ENGL 68Basic principles of sanitation and safety in the food service industry.Emphasis on the role of management in design, implementation and training to establish an effective Hazard Analysis Critical Control Point (HACCP) system. Students will have the opportunity to earn the National Restaurant Association's ServSafe Certificate upon completion of the course.	HRM 58 — Fast Food Service Management 2 Units 36 hours lecture. Degree Appropriate, CSU Corequisite: HRM 91 Basic principles of managing a fast food operation. Comparison with conventional restaurants in pricing, labor needs and facilities. Developing and marketing a positive company image. Practical and legal aspects of franchising versus single ownership. Sanitation and cost controls.
minimum of 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice. Placement by Program Director. HT 19 — Work Experience in Histotechnology (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.)	HRM 53 — Dining Room Service Management3 Units54 hours lecture.Degree Appropriate, CSUAdvisory: ENGL 68Skills and knowledge needed for all aspects of dining room service.Exploration of the five different service styles and their relationship tovarious environments. Table setting styles, buffet set-ups, wine andbeverage service, and service as a sales tool are covered. Safety of bothcustomer and staff are discussed.	HRM 60 — Purchasing for the Restaurant Industry3 Units54 hours lecture.Degree Appropriate, CSUCorequisite: HRM 51 (May have been taken previously)Basic principles of purchasing for the food service industry. Ordering, receiving, storage, characteristics of products and grade selection for different situations are emphasized. Choosing the best supplier, nego- tiating the best terms and writing product specifications are covered.
225 hours lab. Prerequisite: HT 12, compliance with Work Experience regulations as designated in the College Catalog Provides histotechnology students with actual on-the-job experience in an approved work setting which is related to classroom instruction. A minimum of 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and	HRM 54 — Basic Cooking Techniques3 Units36 hours lecture.Degree Appropriate, CSU54 hours lab.Advisory: HRM 52Basic principles of preparing foods for commercial operations; the useand identification of commercial tools and equipment; extendingrecipes; and choosing the proper food grade; evaluation of foodproducts, and equipment usage.	HRM 61 — Menu Planning3 Units54 hours lecture.Degree Appropriate, CSUAdvisory: HRM 51Degree Appropriate, CSUMenu development for all facets of the food service industry including retail and contract operations; emphasis on the economics of the menu and the demographics of the area. Analysis of menus with regard to limitations of the facility and staff, pricing and menu design relative to the economy and culture of the target area. Specialty menus such as ethnic, fast food, catering and various contract situations are included.
practice. Placement by Program Director. HT 20 — Work Experience in Histotechnology (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.) 300 hours lab. Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog	HRM 55 — Hospitality Layout and Design3 Units54 hours lecture.Degree Appropriate, CSUCorequisite: HRM 51 (May have been taken previously)Evaluation and application of basic principles of design for food servicebusinesses, including traffic flow and footprint layouts. Students willstudy successful operations layouts and apply principles to design abusiness, and choose appropriate furnishings and equipment to	HRM 62 — Catering3 Units54 hours lecture.Degree Appropriate, CSUComprehensive exploration of the catering business with in-depth study of organizing and creating both on-premise and off-premise events.Marketing and working with clients to combine menu with price. Contracting outside vendors, problem solving and avoiding common problems before they occur.
Provides histotechnology students with actual on-the-job experience in an approved work setting which is related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice. Placement by Program Director. HOSPITALITY & RESTAURANT MANAGEMENT	compliment theme and fit budgets. HRM 56 — Management of Hospitality Personnel 3 Units and Operations 54 hours lecture. Degree Appropriate, CSU Management skills course for students pursuing a career in supervision within the restaurant/hospitality industry. Application of basic management concepts and techniques necessary to achieve objectives in the management of operations and human resources in restaurant and hospitality businesses including analysis of hospitality workplace; the	HRM 63 — Wines and Spirits3 Units54 hours lecture.Degree Appropriate, CSUIn-depth coverage of different varieties and types of wines, classification, and wine production, including sparkling, aromatic and fortified wines. Types of beer and methods of production and distillation and fermentation of spirits. Issues of responsible alcoholic beverage service and consumption, and the laws governing alcohol sales are covered. STUDENTS MUST BE A MINIMUM OF 21 YEARS OLD TO ENROLL IN THIS COURSE.
HRM 51 — Introduction to Hospitality3 Units54 hours lecture.Degree Appropriate, CSUPrerequisite: Eligibility for ENGL 68Brief review of the historical development of the hospitality industry; social and economic influences on the current leisure industry structures. Career opportunities at various levels in hotels, restaurants, food service institutions and private clubs/resorts. Education and experience requirements, personal qualifications, job responsibilities, job procurement and future opportunities.	manager's responsibilities in training, coaching, and performance appraisal of employees; decision making, leadership, and planning.HRM 57 — Restaurant Cost Control3 Units54 hours lecture.Degree Appropriate, CSU (<i>Corequisite: HRM 51 (May have been taken previously</i>)Methods for controlling resources within the hospitality operation to maximize profits without compromising products. Discusses controls in front of the house, back of the house, purchasing and receiving.	HRM 64 — Hospitality Financial Accounting I 3 Units 54 hours lecture. Degree Appropriate, CSU Prerequisite: BUSA 11 or MATH 51 Introduction to financial accounting specifically for the hospitality business. Emphasis is on tailoring the Uniform System of Accounting to hotels, restaurants, clubs and other food service operations.

Course Descriptions		
HRM 65 — Hospitality Financial Accounting II3 Units54 hours lecture.Degree Appropriate, CSUPrerequisite: HRM 64Financial accounting specifically for the hospitality industry. Providesaccounting practices for balance sheet and income statement datarelated to hotels, restaurants, clubs and other food service operations.Enables students to distinguish between accounting for soleproprietorships, partnerships and corporations.	75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Work experience placement is not guaranteed, but assistance is provided by the faculty. Students who repeat this course will improve skills through further instruction and practice. HRM 93 — Work Experience in Restaurant/Hospitality 3 Units (May be taken four times for credit.) Degree Appropriate, CSU	INSPECTION & ESTIMATING, BUILDING INSP 17 — Legal Aspects of Construction 3 Units Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. Advisory: INSP 70 taken prior or concurrently or equivalent experience Fundamentals of the legal aspects of the construction industry involving homeowner, contractor and builder/developer. Includes codes, licensing,
HRM 66 — Hospitality Law3 Units54 hours lecture.Degree Appropriate, CSUAdvisory: HRM 51Basic principles of contracts, liability and labor as they apply specificallyto the hospitality industry. Students will discuss previous cases anddecide the fates of fictional litigations as a preventive approach toproblems that can occur.	 (May be taken for Credit/No Credit only.) 225 hours lab. Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog Provides students with actual on-the-job experience in an approved worksite which is related to classroom-based learning. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per 	bonds, and lien laws. INSP 67 — Reading Construction Drawings 3 Units Fall Semester Degree Appropriate 54 hours lecture. Fundamentals of reading construction drawings as related to architecture, construction, interior design, and related fields.
HRM 70 — Introduction to Lodging3 Units54 hours lecture.Degree Appropriate, CSUAdvisory: HRM 91Introduction to basics of the lodging industry. Acquaints students with front office operations, accounting, guest service, housekeeping and	week be equally distributed throughout the semester. Work experience placement is not guaranteed, but assistance is provided by the faculty. Students who repeat this course will improve skills through further instruction and practice.	INSP 70 — Elements of Construction3 Units54 hours lecture.Degree Appropriate, CSUFundamentals of construction processes, terminology and procedures.Provides an overview of the construction industry to those who may have an interest in the construction industry and related fields.
food service. Includes human resource management and property management. Enrollment in Work Experience in Restaurant/Food Service (RSTR 91, 92, 93 or 94) is needed for articulation to California State Polytechnic University. HRM 91 — Work Experience in Restaurant/Hospitality 1 Unit	HRM 94 — Work Experience in Restaurant/Hospitality 4 Units (May be taken four times for credit.) Degree Appropriate, CSU (May be taken for Credit/No Credit only.) 300 hours lab. Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog Descriptions in an approved	INSP 71 — Construction Estimating 3 Units 54 hours lecture. Degree Appropriate, CSU Basics of bidding procedures and interrelationship of documents and estimating. Detailed calculation of cost based on the amount of required building materials using actual working drawings, estimating forms, and cost data courses.
 (May be taken four times for credit.) Degree Appropriate, CSU (May be taken for Credit/No Credit only.) 75 hours lab. Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog Provides students with actual on-the-job experience in an approved worksite which is related to classroom-based learning. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Work experience placement is not guaranteed, but assistance is provided by faculty. Students who repeat this course will improve skills through further instruction and practice. 	Provides student with actual on-the-job experience in an approved worksite which is related to classroom-based learning. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Work experience placement is not guaranteed, but assistance is provided by the faculty. Students who repeat this course will improve skills through further instruction and practice. HUMANITIES HUMA 1 — The Humanities 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Prerequisite: Eligibility for ENGL 68	INSP 87 — Fundamentals of Construction Inspection 3 Units Fall Semester Degree Appropriate 54 hours lecture. Advisory: Completion of a curriculum in building construction or equivalent experience Construction inspection of light frame wood construction and steel structures. Topics include vertical and horizontal loads, stress analysis, framing and structural standards of lumber and steel, metallurgy and welding. INTERIOR DESIGN ID 100 — Fundamentals of Interior Design 3 Units
HRM 92 — Work Experience in Restaurant/Hospitality2 Units(May be taken four times for credit.)Degree Appropriate, CSU(May be taken for Credit/No Credit only.)150 hours lab.Prerequisite: Compliance with Work Experience regulations as designated in the College CatalogProvides students with actual on-the-job experience in an approved worksite which is related to classroom-based learning. A minimum of	An interdisciplinary study of the artistic, musical, literary and philosophical accomplishments and achievements of women and men in western society from the ancient Middle East to the present. Emphasizes creating an awareness of human expression as it occurs in a historical and philosophical context.	54 hours lecture. Degree Appropriate, CSU Application of design principles and elements in planning of total interior environments that meet individual, functional, legal and environmental needs. Selection of all materials and products used in interior environments will be emphasized for the functional aesthetic quality. (Recommend concurrent enrollment in ID 105)

ID 105 — Interior Design Studio I 2 Units 18 hours lecture. Degree Appropriate, CSU 54 hours lab. Corequisite: ID 100 (May have been taken previously) Studio course designed to apply concepts and theories presented in the lecture course, ID 100. It is recommended that this course be taken concurrently with the lecture class. Emphasis is placed on design process in developing solutions for design projects.	ID 180 — History of Interior Architecture & Furnishings I 3 Units Fall Semester Degree Appropriate, CSU 54 hours lecture. The historical relationship between the decorative arts, period furniture and interior architecture is illustrated in this overview of design heritage from antiquity through the 19th Century in France. Emphasis is placed on style development as it relates to social, economic and political influences.	ID 240A — Interior Design Internship Seminar 1 Unit Spring Semester Degree Appropriate (May be taken two times for credit.) 18 hours lecture. Corequisite: ID 240B and ID 120 (May have been taken previously) Advisory: ID 170 Students share and critique experiences, emphasizing professionalism and problem solving techniques related to internship experience (ID 240B). Students who repeat this course will have additional learning
ID 120 — Interior Design Careers 2 Units 36 hours lecture. Degree Appropriate, CSU Advisory: Eligibility for ENGL 68 A survey of the Interior Design profession, industry, related occupations and work sites. The course will emphasize personal, educational, and professional qualifications required for entry into the Interior Design and related professions.	ID 190 — History of Interior Architecture & Furnishings II 3 Units Spring Semester Degree Appropriate, CSU 54 hours lecture. <i>Advisory: ID 180 and Eligibility for ENGL 68</i> The historical relationship between the decorative arts, period furniture and interior architecture is illustrated in this overview of design heritage. This course begins with Sixteenth Century England and Associate and explorements the information design design design.	experiences by being placed in a different work site. ID 240B — Interior Design Internship 1 Unit Spring Semester Degree Appropriate (May be taken for Credit/No Credit only.) 75 hours lab. Conservities (D 2404
ID 130 — Applied Color and Design Theory 4 Units 54 hours lecture. Degree Appropriate, CSU 54 hours lab.	America and analyzes the influences and changes in design to the present. Emphasis is placed on style development as it relates to social, economic and political forces.	<i>Corequisite: ID 240A</i> Supervised internship related to classroom-based learning at a work site related to Interior Design. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit.
Design theory and application. Utilization of tools, materials, and equipment to develop technical skills applicable to interior, archi- tectural and other related fields of design. Exploration of cultural heritage and psychological implication of design.	ID 210 — Fundamentals of Lighting3 UnitsSpring SemesterDegree Appropriate54 hours lecture.Advisory: ID 100, ARCH 11, or equivalent experience	It is recommended that the hours per week be equally distributed throughout the semester. Internship placement is not guaranteed, but assistance is provided by Interior Design faculty. Students who repeat this course will improve skills through further instruction and practice.
ID 150 — Interior Materials and Products4 Units72 hours lecture.Degree Appropriate, CSUAdvisory: ID 100Analysis, application, and evaluation of products and materials used inInterior Design. Includes interior textiles, furnishings and finish materialsand products.	The fundamentals of lighting, design, theory and application including the history and vocabulary of lighting; how light affects color and vision, incandescent and fluorescent lamps, lighting techniques for interior designers, codes, and energy efficient lighting practices. ID 215 — Interior Design Studio II 2 Units Fall Semester Degree Appropriate, CSU	ID 240C — Interior Design/Kitchen & Bath Internship2 Units(May be taken two times for credit.)Degree Appropriate150 hours lab.Corequisite: ID 240B (May have been taken previously)Supervised internship related to classroom-based learning at a NationalKitchen and Bath member work site. A minimum of 75 paid or 60 non-
ID 150A — Interior Materials and Products2 Units36 hours lecture.Degree Appropriate, CSUAdvisory: ID 100Analysis, application, and evaluation of products and materials used in interior design. Includes textiles, rugs, carpet, upholstered furniture and window treatments.	18 hours lecture. 54 hours lab. Prerequisite: ID 105 Advisory: ID 130 and ID 170 Develop, analyze and apply design concepts to interior environments. Universal design, "green" design, space planning, lighting systems, interior component, architectural elements and specification writing	paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Internship placement is not guaranteed, but assistance is provided by Interior Design faculty. Students who repeat this course will improve skills through further instruction and practice.
ID 150B — Interior Materials and Products2 Units36 hours lecture.Degree Appropriate, CSUAdvisory: ID 100Analysis, application and evaluation of products and materials used in interior design. Includes resilient flooring, casegoods, and interior architectural finishing materials.	will be integrated into research projects emphasizing problem solving approach. ID 230 — Business and Professional Practice 3 Units Spring Semester Degree Appropriate 54 hours lecture. <i>Prerequisite: ID 100</i>	ID 250 — Codes and Specifications for Interior Design 2 Units Fall Semester Degree Appropriate, CSU 36 hours lecture. <i>Advisory: ID 215</i> Explores local, state, and federal regulations, codes and specifications concerning life-safety issues, ADA, and universal design requirements under the unide the unide test of the safety issues.
ID 170 — Space Planning3 UnitsSpring SemesterDegree Appropriate, CSU36 hours lecture.54 hours lab.54 hours lab.Advisory: ID 100 or ID 130 or ARCH 11 or ARCH 21The application of programming theory and techniques in residential and commercial space planning. Skills in drafting and presentation techniques are emphasized in the studio.	Advisory: ID 120 The business and professional management of an interior design practice including legal issues, project management and business practices.	relative to residential and contract design. Attention is given to performance, health safety, and universal design for estimating and specifying interior materials and products.

course Descriptions		
ID 260 — Rendering and Rapid Visualization2 Units18 hours lecture.Degree Appropriate, CSU54 hours lab.Application of the methods, techniques and tools used in illustrating interior spaces and products with an emphasis on rapid production.	ITAL 5 — Advanced Italian 4 Units Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 72 hours lecture. Prerequisite: ITAL 4 or equivalent	exposure to Italian culture. Grammar is presented in context. Students who repeat this course will improve their skills through further instruction and practice. ITAL 60 — Italian Culture Through Cinema 3 Units Degree Appropriate, CSU, UC
ID 265 — Interior Design Studio III – Kitchens 2 Units 18 hours lecture. Degree Appropriate 54 hours lab. Analysis and application of the design process to space planning, materials and finish choices, codes application, and selection of specialized equipment unique to the planning of kitchens. Design	Emphasis is placed on increased facility to read and write advanced Italian. Cultural insights are developed through the study of various Italian literary types. ITAL 6 — Continuing Advanced Italian 4 Units Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.)	(May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. Italian culture through cinema from 1900 through analysis of the aesthetic, literary, artistic and philosophical movements in Italy as reflected in the works of the Italian film makers and writers. Lecture and class discussion to be conducted in English; film presentation with English subtitles.
solutions for kitchens will be developed in the studio. ID 275 — Interior Design Studio IV – Bath Design 2 Units 18 hours lecture. Degree Appropriate, CSU 54 hours lab.	72 hours lecture. <i>Prerequisite: ITAL 5 or equivalent</i> Extensive advanced reading, writing, and speaking in Italian that further develop cultural insight through the study of various Italian literary types.	JAPANESE JAPN 1 — Elementary Japanese 4 Units (CAN JAPN 2) Degree Appropriate, CSU, UC
Analysis and application of the design process for space planning, specifications of materials and equipment for bathrooms. ITALIAN ITAL 1 — Elementary Italian 4 Units 72 hours lecture. Degree Appropriate, CSU, UC Intended for students without previous exposure to Italian. Includes	ITAL 35 — Italian Language Laboratory.5 Unit(May be taken four times for credit.)Degree Appropriate, CSU(May be taken for Credit/No Credit only.)27 hours lab.27 hours lab.Prerequisite: Concurrent or previous enrollment in ItalianAn independent study laboratory course for students who wish to improve their skills in Italian; may supplement any other Italian course.	JAPN 1+2 = CAN JAPN SEQ A 72 hours lecture. Intended for students without previous exposure to Japanese. Begins to develop the ability to converse, read, and write in Japanese. Includes the study of essentials of pronunciation, vocabulary, idioms, and grammatical structures. Introduction to Japanese culture.
the study of essentials of pronunciation, vocabulary, idioms, and grammatical structures along with an introduction to Italian culture. Begins to develop the ability to converse, read, and write in Italian.	Requires 24 hours in the language laboratory to receive credit. Students who repeat this course will improve skills through further instruction and practice.	JAPN 2 — Continuing Elementary Japanese 4 Units (CAN JAPN 4) Degree Appropriate, CSU, UC JAPN 1+2 = CAN JAPN SEQ A 72 hours lecture.
ITAL 2 — Continuing Elementary Italian4 Units72 hours lecture.Degree Appropriate, CSU, UCPrerequisite: ITAL 1 or two years of high school Italian or equivalentFurther development of conversational, reading and writing skills inItalian with special emphasis on verbs, grammar and extension ofvocabulary. Further study of Italian culture.	ITAL 52 — Conversational Italian 3 Units Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. Prerequisite: ITAL 1 or equivalent Development of elementary Italian conversational skills. Emphasis on	Prerequisite: JAPN 1 or two years high school JapaneseFurther development of conversational, reading and writing skills in Japanese with special emphasis on verbs, grammar, and extension of vocabulary. Includes a discussion of Japanese culture.JAPN 3 — Intermediate Japanese4 Units
ITAL 3 — Intermediate Italian4 Units72 hours lecture.Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)Prerequisite: ITAL 2 or equivalentDevelopment of intermediate Italian language skills and their use as tools in exploring Italian civilization. Further study and review of grammar, exercises in word building, derivation and the extension of the active and recognition vocabularies. Extensive exposure to Italian culture, such as film, music and history.	collaborative activities and practical use of the language. Extensive exposure to Italian culture. Grammar is presented in context. ITAL 53 — Continuing Conversational Italian 3 Units Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. Prerequisite: ITAL 2 or ITAL 52 or equivalent Development of intermediate Italian conversational skills. Emphasis on collaborative activities and practical use of the language. Extensive	(CAN JAPN 8) Degree Appropriate, CSU, UC JAPN 3+4 = CAN JAPN SEQ B 72 hours lecture. Prerequisite: JAPN 2 or equivalent Continued development of Kanji (50 or more characters) with 60 additional readings. Continued development of writing ability emphasizing development of thought through Kanji, Hiragana and Katakana. Additional development of cultural application of Japanese. JAPN 4 — Continuing Intermediate Japanese 4 Units (CAN JAPN10) Degree Appropriate, CSU, UC
ITAL 4 — Continuing Intermediate Italian4 Units72 hours lecture.Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)Prerequisite: ITAL 3 or equivalentFurther practice in speaking and writing of intermediate Italian.Collateral reading in Italian. Extensive exposure to cultural elementsfrom Italy such as art, music, film and history.	exposure to Italian culture. Grammar is presented in context. ITAL 54 — Advanced Conversational Italian 3 Units Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. Prerequisite: ITAL 3 or ITAL 53 or equivalent Development of advanced Italian conversational skills. Emphasis on collaborative activities and practical use of the language. Extensive	JAPN 3+4 = CAN JAPN SEQ B 72 hours lecture. <i>Prerequisite: JAPN 3 or equivalent</i> Further practice in listening comprehension, communicative proficiency, writing and reading in Japanese. Advanced study and review of grammar and vocabulary. Readings and discussions of Japanese cultural topics and introduction to Japanese literature.

JAPN 5 — Advanced Japanese4 Units72 hours lecture.Degree Appropriate, CSU, UCPrerequisite: JAPN 4 or equivalentAdvisory: Eligibility for ENGL 68Advanced Japanese communication skills with emphasis on conversational skills for daily and social settings in Japanese culture.Advanced study of grammar, vocabulary, Kanji characters, listening, speaking, reading, and writing. Extensive exposure to cultural elements from Japan such as art, music, film, and history.JAPN 35 — Japanese Language Laboratory (May be taken for Credit/No Credit only.).5 Unit Degree Appropriate, CSU	JOUR 102 — Intermediate News Writing 3 Units Spring Semester Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. 54 hours lecture. Prerequisite: JOUR 101 or JOUR 1A Development of intermediate news reporting techniques combined with the composition of complex journalistic writing forms. JOUR 103 — Working on the Newspaper 3 Units (May be taken four times for credit.) Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 18 hours lecture. 108 hours lab.	Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. Advisory: ENGL 1A Studies the role mass media plays in the social, political, and economic integration of minorities, cultures, women, and gays and lesbians into American society. Examines ways that mass media impacts public attitudes and behaviors. JOUR 108 — Writing for Public Relations 3 Units Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.)
27 hours lab. Corequisite: Concurrent or previous enrollment in Japanese An independent study laboratory course for students who wish to improve their skills in Japanese; may supplement any other Japanese course. Requires 24 hours in the language laboratory to receive credit. Students who repeat this course will improve skills through further practice and drill.	Corequisite: JOUR 101 or JOUR 1A (May have been taken previously)Practical experience preparing the college newspaper. Duties may include reporting, story writing, photography, layout and design and copy editing. Students who repeat this class will improve skills through further instruction and practice.JOUR 104 — Newspaper Layout & Design3 Units	54 hours lecture. Prerequisite: JOUR 101 or JOUR 1A An introduction to public relations writing including news releases, fact sheets, feature stories, institutional publications, and newsletters. The relationships between public relations, the mass media, and society will be explored.
JAPN 53 — Conversational Japanese 3 Units Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. Prerequisite: JAPN 2 or equivalent Development of intermediate Japanese conversational skills. Emphasis on collaborative activities and practical use of the language. Extensive exposure to Japanese culture. Grammar is presented in context.	 (May be taken four times for credit.) Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 54 hours lab. An introduction to newspaper design using desktop publishing techniques. Includes hands-on experience publishing the student newspaper. Students who repeat this course will improve skills through further instruction and practice. 	JOUR 109 — Public Relations Internship3 Units(May be taken two times for credit.)Degree Appropriate(May be taken for option of letter grade or Credit/No Credit.)225 hours lab.225 hours lab.Advisory: JOUR 108 or JOUR 8Field work in pubic relations. A minimum of 75 paid or 60 non-paidclock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Students who repeat this course
JOURNALISM JOUR 100 — Mass Media and Society 3 Units (CAN JOUR 4) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. Prerequisite: ENGL 1A Survey of the mass media and the interrelationships of media with society, including history, structure, and trends. Additionally, the	JOUR 105 — Editor Training1 Unit(May be taken four times for credit.)Degree Appropriate(May be taken for option of letter grade or Credit/No Credit.)54 hours lab.54 hours lab.Advisory: JOUR 101 or JOUR 1AStresses leadership skills in a journalistic setting using the studentnewspaper as a practical laboratory. Designed for students selected toserve as editors or managers of the paper. Students who repeat thiscourse will improve skills through further instruction and practice.	will improve skills through further instruction and practice. JOUR 110 — Magazine Writing and Production 3 Units (May be taken two times for credit.) Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 54 hours lab. Prerequisite: JOUR 101 or JOUR 1A Production of a student-run magazine in a professional setting.
following topics will be covered as they pertain to the mass media: economics, technology, law and ethics and such social issues as gender and cultural diversity.	JOUR 106 — Introduction to Visual Journalism 3 Units Fall Semester Degree Appropriate, CSU (May be taken two times for credit.) (May be taken for option of letter grade or Credit/No Credit.)	Activities may include fiction and nonfiction writing, editing, ethics, interviewing, photography, art and layout. Overview of the magazine industry and markets explored. Students who repeat this course will improve skills through further instruction and practice.
JOUR 101 — Beginning News Writing 3 Units (CAN JOUR 2) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. 54 hours lecture. Prerequisite: ENGL 1A Evaluating, gathering, and writing news in accepted journalistic style under newsroom conditions. Includes role of the reporter and the legal and ethical issues relating to reporting. The student will have writing and reporting experiences, including personal interviews, speech, meeting and other event coverage, deadline writing, and use of AP style.	54 hours lecture. 36 hours lab. Corequisite: COMP 60 or COMP 62 (May have been taken previously) Photojournalism assignments using still, digital, and video cameras offset printing (newspaper, magazine, etc.) and digital Web presentations. Basics of photojournalism, digital camera operation, shooting techniques, photo-editing software, cutline writing, video a audio production and editing, and Web homepage design productio Students who repeat this course will improve skills through further instruction and practice.	JOUR 111 — Broadcast News Writing 3 Units Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. Prerequisite: JOUR 1A or JOUR 101 Intensive news gathering and writing for radio and television. Newscast planning, story organization, and functions of a broadcast newsroom explored. Emphasis on assignments for both audio and video tape media. Lecture and discussion of issues and responsibilities confronting broadcast journalists including ethics and changing technology.

JOUR 112 — Work Experience in Journalism 3 Units	LEADERSHIP	LERN 62 — Skills Development Laboratory 2 Units
(May be taken four times for credit.) Non-Degree Credit (May be taken for Credit/No Credit only.)	LEAD 55 — Exploring Leadership 3 Units 54 hours lecture. Degree Appropriate, CSU	(May be taken two times for credit.) Pre-Collegiate (May be taken for Credit/No Credit only.)
225 hours lab.	Designed to introduce students to the fundamental elements of	108 hours lab.
Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog. JOUR 101 or JOUR 1A and ENGL 1A	leadership. Explores leadership theories and models, values and beliefs.	Offers individualized material in the following subjects: reading comprehension, reading acceleration, vocabulary, spelling, elementary
This course is designed to provide majors with actual on-the-job	Develops a personal philosophy of leadership that includes an understanding of self, others and community. Prepares students for	math, algebra review, English grammar, study techniques (note-taking,
experience in an approved work station which is related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per	leadership roles in college and community settings.	test-preparation, test-taking). Students may register for two units through the first half of the term. Two units require a total expenditure
semester of supervised work is required for each unit of credit. It is	LEARNING ASSISTANCE SERVICES	of 96 hours in class. Students who repeat will achieve further
recommended that the hours per week be equally distributed	LERN 48 — Basic Math Skills Review 3 Units	improvement in the skills previously tested or work on the developmen of other skills.
throughout the semester. Students who repeat this course will improve skills through further instruction and practice.	(May be taken three times for credit.) Pre-Collegiate	
JOUR 113 — Work Experience in Journalism 4 Units	(May be taken for Credit/No Credit only.) 54 hours lecture.	LERN 81 — Improving Writing Skills 3 Unit: (May be taken three times for credit.) Pre-Collegiate
(May be taken four times for credit.) Non-Degree Credit	24 hours lab.	(May be taken for Credit/No Credit only.)
(May be taken for Credit/No Credit only.) 300 hours lab.	Essential math fundamentals: multiplication tables, adding, subtracting,	54 hours lecture. 24 hours lab.
Prerequisite: Compliance with Work Experience regulations as designated	multiplying and dividing whole numbers and fractions. Emphasis on math learning strategies such as organization and math anxiety.	Offers assistance to students who wish to improve prewriting, writing,
in the College Catalog. JOUR 101 or JOUR 1A and ENGL 1A	Successful completers of this course are eligible for LERN 49. Students	editing, and revising skills. Provides instruction in content and structure
This course is designed to provide majors with actual on-the-job experience in an approved work station which is related to classroom	who repeat this course will improve skills through further instruction and practice.	of sentences, paragraphs, and essay; emphasizes development in writing through the integration of grammar and critical thinking. Students who
instruction. A minimum of 75 paid or 60 non-paid clock hours per	LERN 49 — Math Skills Review 3 Units	repeat this course will improve skills through further instruction and
semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed	(May be taken three times for credit.) Pre-Collegiate	practice.
throughout the semester. Students who repeat this course will improve	(May be taken for Credit/No Credit only.)	LIBRARY & INSTRUCTIONAL MEDIA
skills through further instruction and practice.	54 hours lecture. 24 hours lab.	LIBR 1 — Information Resources and Research Methods 3 Units
LATIN	Prerequisite: LERN 48 or passing score on current placement test	(May be taken two times for credit.) Degree Appropriate, CSU, UC 54 hours lecture.
LATN 1 — Elementary Latin 4 Units	Improves knowledge of basic math. Includes operations and applied problems in whole numbers, fractions, decimals, percentages, and	Advisory: Eligibility for ENGL 68
Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.)	proportions. Covers math study strategies such as overcoming math	Research methods that provide lifelong information competency necessary for independent research and critical thinking. Activities
72 hours lecture.	anxiety. Students who repeat this course will improve skills through further instruction and practice.	include finding, evaluating and documenting information using
Advisory: Eligibility for READ 90 or eligibility for AMLA 33R		traditional and electronic resources, including the Internet. Students who
This course is designed for students with little or no prior experience in Latin. Emphasizes the ability to read basic Latin as it was written during	LERN 61 — Skills Development Laboratory 1 Unit (May be taken two times for credit.) Pre-Collegiate	repeat this course will improve skills through further instruction and practice.
the early, classical, and post-classical periods. Includes the study of	(May be taken for Credit/No Credit only.)	LIBR 1A — Introduction to Library Research 1 Unit
vocabulary, grammar, Roman culture, and the history of the Latin language.	54 hours lab. Offers individualized material in the following subjects: reading	(May be taken two times for credit.) Degree Appropriate, CSU
LATN 2 — Continuing Elementary Latin 4 Units Degree Appropriate, CSU	comprehension, reading acceleration, vocabulary, spelling, elementary	(May be taken for option of letter grade or Credit/No Credit.) 18 hours lecture.
(May be taken for option of letter grade or Credit/No Credit.)	math, algebra review, English grammar, study techniques (note-taking, test-preparation, test-taking). Students may register for one unit	Advisory: Eligibility for ENGL 68
72 hours lecture.	through the first half of the term. One unit requires a total expenditure	Basic research skills for lifelong information competency necessary for
Prerequisite: LATN 1 or one year of high school Latin (C or better) and completed within one year of course registration	of 48 hours in class. Students who repeat will achieve further improvement in the skills previously tested or work on the development	independent research and critical thinking. Topics include search strategies, citation, and use of library resources.
Advisory: Eligibility for READ 90 or eligibility for AMLA 33R	of other skills.	
Second semester of coursework for students with prior coursework in Latin. Daily practice in vocabulary, grammar, and reading. Explores		
Roman history and culture.		

LIBR 1B — Using Electronic Resources 1 Unit (May be taken two times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 18 hours lecture. Advisory: Eligibility for ENGL 68 Research skills using electronic resources for lifelong information competency. Topics include databases, electronic books, search strategies, citation, copyright, and plagiarism. MANUFACTURING TECHNOLOGY	MFG 19 — Parametric Solid Modeling for Manufacturing2 Units(May be taken four times for credit.)Degree Appropriate18 hours lecture.54 hours lab.54 hours lab.Advisory: MFG 17Development of feature-based solid modeling on a computer using current software used in industry. Transfer of solid model to a CAM system for CNC code production. Includes production of a manufactured part using CNC mill. Students who repeat this course will improve skills through further instruction and practice.	MFG 38C — MasterCAM Solids 2 Units (May be taken four times for credit.) Degree Appropriate 18 hours lecture. 54 hours lab. Advisory: MFG 38B Using MasterCAM software to design wire drawings, translate to solids Using MasterCAM software to design wire drawings, translate to solids drawings, and generate code from a solids creation to meet industrial standards. Students who repeat this course will improve skills through further instruction and practice.
MFG 11 — Manufacturing Processes I 2 Units (May be taken four times for credit.) Degree Appropriate, CSU 18 hours lecture. 54 hours lab. 54 hours lab. Manual and computerized manufacturing, manual lathes and mills, tool nomenclature and Computerized Numerical Control (CNC) operations. Operation of CNC machines. Students who repeat this course will improve skills through further instruction and practice. MFG 12 — Manufacturing Processes II 2 Units May be taken two times for credit. Degree Appropriate (CIII)	Introduction unde processes MFG 25 — Advanced Parametric Solid Modeling for 2 Units Manufacturing (May be taken four times for credit.) Degree Appropriate 18 hours lecture. 54 hours lab. Advisory: MFG 19 or MFG 27 taken previously Advanced instruction in concepts, practice, and development of feature-based solid modeling using software currently used in the manufacturing industry. Advanced features of solid modeling global variables, 3-D helical paths generation, surface cut, table-driven parts,	MFG 39 — SurfCAM I2 Units(May be taken four times for credit.)Degree Appropriate, CSU18 hours lecture.54 hours lab.54 hours lab.Advisory: MFG 11, MFG 85SurfCAM software used to create part geometry from project drawings for two-axis milling and turning parts. Tool paths will be added and files completed and post-processed. Files will be downloaded to CNC machines. Students will be required to set up all cutting tools and machine the part. Students who repeat this course will improve skills through further instruction and practice.
(May be taken two times for credit.) Degree Appropriate, CSU 18 hours lecture. 54 hours lab. 54 hours lab. Advisory: MFG 11 The study of manufacturing equipment and manufacturing processes. Theory and practice in milling operations, tooling setup, metallurgy, heat treatment, precision grinding, and basic tool design. Students who repeat this course will improve skills through further instruction and practice. MFG 15 — AutoCAD 2D 2 Units (May be taken four times for credit.)	and advanced sheet metal, and animation. Students who repeat this course will improve skills through further instruction and practice. MFG 27 — Autodesk Inventor 2 Units (May be taken four times for credit.) Degree Appropriate 18 hours lecture. 54 hours lab. <i>Advisory: MFG 19</i> Advanced concepts, practice, and development of feature-based solid modeling using AutoDesk Inventor. Solid modeling parts creation using	MFG 39B — SurfCAM II 2 Units (May be taken four times for credit.) Degree Appropriate, CSU 18 hours lecture. 54 hours lab. 54 hours lab. Advisory: MFG 39 Use SurfCAM software to create part geometry for three-axis milling and lathe parts from project drawings and CAD files. Tool paths will be added and the completed file will be post-processed and downloaded to CNC machine. Students will set up the required cutting tools and
18 hours lecture. 54 hours lab. Development of two dimensional AutoCAD mechanical screen drawings, as related to Computer Integrated Manufacturing (CIM), and Computer Aided Machines (CAM). Completed drawings will be translated into DXF and/or IGES files and then transferred to various CAD/CAM systems. Students who repeat this course will improve skills through further instruction and practice.	sketched, placed, and work features. Assembly techniques, working drawings, and the transfer of a solid model to a CAM system. Students who repeat this course will improve skills through further instruction and practice. MFG 38 — MasterCAM I 2 Units (May be taken four times for credit.) Degree Appropriate, CSU 18 hours lecture. 54 hours lab. Use MasterCAM software to create wire-frame part geometry, add tool paths	machine the part. Students who repeat this course will improve skills through further instruction and practice. MFG 58 — Blueprint Reading for Manufacturing (May be taken two times for credit.) Degree Appropriate 36 hours lecture. Advisory: MFG 70 Blueprint reading as a means of interpreting and visualizing drawings used in manufacturing. Includes the basic print form, title block, notes, materialing and principles to CNC
MFG 17 — 3-D CAD – Mechanical Modeling2 Units(May be taken four times for credit.)Degree Appropriate18 hours lecture.54 hours lab.54 hours lab.Advisory: MFG 15Development of three dimensional mechanical models using AutoCAD.Analysis and manipulation of mechanical solid models and industrialprimitives as related to their interaction with Computer Aided Machines(CAM) and Computer Integrated Manufacturing (CIM) systems. Studentswho repeat this course will improve skills through further instructionand practice.	OSE MasterCAM software to create wire-frame part geometry, add tool paths and create CNC code for CNC mills and CNC lathes. Students who repeat this course will improve skills through further instruction and practice. MFG 38B — Advanced MasterCAM 2 Units (May be taken four times for credit.) Degree Appropriate, CSU 18 hours lecture. 54 hours lab. Advisory: MFG 38 Use MasterCAM software to create wire-frame 3D/multi-axis part geometry, add tool paths, and create CNC code for CNC mills and CNC lathes. Students who repeat this course will improve skills through further instruction and practice.	materials, machining specifications, application of principles to CNC, welding, and sheet metal. Students who repeat this course will improve skills through further instruction and practice.MFG 70 — Technical Mathematics – Manufacturing Applications2 Units 2 Units Applications(May be taken two times for credit.)Degree Appropriate, CSU 36 hours lecture.36 hours lecture.Applications of mathematical principles in manufacturing. Includes arithmetic calculations, measurement, use of formulas, geometry, and trigonometry. Students who repeat this course will improve skills through further instruction and practice.

Course Descriptions		
MFG 85 — Manual CNC (Computerized Numerical Control) 2 Units Operations (May be taken two times for credit.) Degree Appropriate, CSU 18 hours lecture. 54 hours lab. Theory and practice in manually developing CNC programs. Methods of transmitting data to CNC machines and physical set-up and operation of the context of the	MATH 51A — Elementary Algebra – First Half 3 Units 54 hours lecture. Degree Appropriate Prerequisite: MATH 50 or qualifying score on current department placement test Degree Appropriate Contains the first half of elementary algebra. Operations with signed numbers and algebraic expressions; linear equations and inequalities; polynomial operations and factoring; rational expressions and	mathematics courses. Polynomial, rational, radical, exponential and logarithmic expressions are simplified, equations solved and functions graphed and studied; linear and nonlinear systems of equations and inequalities; conic sections; sequence, series and the binomial theorem. Application problems appear throughout the course. MATH 71A — Intermediate Algebra – First Half 54 hours lecture. Degree Appropriate
CNC equipment. Students who repeat this course will improve skills through further instruction and practice. MATHEMATICS MATH 10 — Math Enhancement 0 Unit (May be taken four times for credit.) Pre-Collegiate	equations; ratios, proportions, formulas, and variation; applications. MATH 51B — Elementary Algebra – Second Half 3 Units 54 hours lecture. Degree Appropriate Prerequisite: MATH 51A Contains the second half of Elementary Algebra. Includes: Cartesian	 Prerequisite: MATH 51 or MATH 51B or qualifying score on current department placement test Algebra of functions, polynomials, and rational expressions; functions and their graphs; systems of equations with two or three variables; absolute value and compound inequalities; sequences and series; the binomial theorem.
18 hours activity. Linked with a corresponding math lecture section, this course provides hands-on activities and mathematical applications designed to enhance student success and abilities in the linked course. Supplemental learning activities such as computer projects, drill and practice, study skills development, group work and student presentations.	Coordinate System, slope/graphing/equations of lines, solving systems of linear equations, algebraic operations with radicals, solving equations with radicals, solving second degree equations using methods of completing the square and the quadratic formula. Students must complete both MATH 51A and MATH 51B to have taken the equivalent of Elementary Algebra (MATH 51).	MATH 71B — Intermediate Algebra – Second Half 3 Units 54 hours lecture. Degree Appropriate <i>Prerequisite: MATH 71A</i> Quadratic equations and graphs; exponents, radicals and logarithms; conic sections. A student must complete both MATH 71A AND MATH 71B to hour a balve the available of intermediate alcoher.
MATH 50 — Pre-Algebra3 Units54 hours lecture.Pre-CollegiatePrerequisite: Credit in LERN 49 or qualifying score on current department placement test.Pre-CollegiateFundamental principles of mathematics designed to ease the transition from arithmetic to algebra. Concepts, computational skills, thinking skills and problem-solving skills are balanced to build proficiency and mastery.	MATH 52 — Algebra With Applications I 4 Units 72 hours lecture. Degree Appropriate Prerequisite: MATH 50; OR passing score on current department placement test First course in an alternative sequence equivalent to Beginning and Intermediate Algebra, featuring practical applications with a minimum of emphasis on review topics. Includes solving linear equations in one and two variables; applications; graphing linear equations in two	to have taken the equivalent of intermediate algebra. MATH 72 — Algebra With Applications II 5 Units 90 hours lecture. Degree Appropriate Prerequisite: MATH 52 Limited to students who have successfully completed MATH 52. Features practical applications of complex fractions; solving rational equations and inequalities; exponents and radicals; solving quadratic equations and inequalities; complex numbers; the study of linear functions,
MATH 50L — Pre-Algebra Laboratory0 Unit(May be taken four times for credit.)Pre-Collegiate108 hours lab.Corequisite: MATH 50Open entry-open exit laboratory for students enrolled in pre-algebra.Individual and group assistance and instructional support, includingreview, drill and practice, and assistance with assigned laboratory projects	variables; finding the equations of lines; solving linear and absolute value inequalities; exponents; operations with polynomials and rational expressions; factoring techniques and solving polynomial equations; and solving systems of linear equations and inequalities. A student must complete both MATH 52 and MATH 72 to have taken the equivalent of MATH 71, and both in combination will satisfy the requirement for an A.S. or A.A. degree.	quadratic functions, inverse functions, exponential and logarithmic functions, and the algebra of functions; solving systems of non-linear equations and inequalities; conics; sequences and series; and applications involving rational and quadratic equations, variation and linear, quadratic, exponential and logarithmic functions. A student must complete both MATH 52 and MATH 72 to have taken the equivalent of Math 71, and both in combination will satisfy the requirement for an
in the Math Activities Resource Center (M.A.R.C.) Students who repeat this course will improve skills through further instruction and practice. MATH 51 — Elementary Algebra 4 Units 72 hours lecture. Degree Appropriate Prerequisite: MATH 50 or qualifying score on current department placement test Basic algebra, equivalent to first year high school algebra. Includes operations with signed numbers and algebraic expressions, linear equations and inequalities, polynomial operations and factoring, rational	MATH 61 — Plane Geometry3 Units54 hours lecture.Degree AppropriatePrerequisite: MATH 51 or MATH 51B or MATH 52 or qualifying score on current department placement testPoints, lines, polygons and circles; their relationships to each other on plane surfaces; congruence, similarity and area. Introduction to inductive, deductive and indirect reasoning. The formal proof is introduced and practiced throughout the course. Stress is placed on accuracy of statement as a background for analytical and scientific reasoning.	A.S. or A.A. degree. MATH 96 — Strategies for Math Success 1 Unit (May be taken three times for credit.) Pre-Collegiate (May be taken for Credit/No Credit only.) 18 hours lecture. Perspectives, understandings and strategies to utilize a learning system for acquiring, understanding, remembering and producing mathematical knowledge. Course is appropriate for all levels of mathematics students. Students who repeat this course will improve skill through further
expressions and equations, Cartesian Coordinate System, slope/ graphing/equations of lines, systems of linear equations, ratio/proportion, formulas and variation, applications, radicals and exponents, quadratic equations.	MATH 71 — Intermediate Algebra 5 Units 90 hours lecture. Degree Appropriate Prerequisite: MATH 51 or MATH 51B or qualifying score on current department placement test Reviews and extends concepts from elementary algebra, and introduces new content to prepare students for a variety of subsequent	instruction and practice.

MATH 99 — Special Projects in Mathematics2 Units(May be taken four times for credit.)Degree Appropriate, CSU36 hours lecture.In order to offer selected students recognition for their academicIn order to adaptive the various departments from time to time offer SpecialProjects courses. The content of each course and the methods of studyvary from semester to semester and depend on the particular projectunder consideration. Students who repeat this course will improve skillsthrough further instruction and practice.	MATH 120 — Finite Mathematics 3 Units Fall Semester Degree Appropriate, CSU, UC (CAN MATH12) 54 hours lecture. 54 hours lecture. Prerequisite: MATH 71 or MATH 71B or MATH 72 or qualifying score on current department placement test Mathematics for Business, Social Science and Biological Science majors. Topics include linear programming, matrix theory, probability, statistics, stochastic processes, Markov chains, and math of finance.	MATH 180 — Calculus and Analytic Geometry 4 Units 72 hours lecture. Degree Appropriate, CSU, UC Prerequisite: MATH 160 or qualifying score on current department placement test Functions, curve sketching, limits, the derivative, rules for differentiation of algebraic and trigonometric functions, applications of the derivative. Indefinite and definite integrals, and calculus with exponential, logarithmic, and other transcendental functions. MATH 181 — Calculus and Analytic Geometry 5 Units
MATH 100 — Survey of College Mathematics 3 Units (CAN MATH 2) Degree Appropriate, CSU, UC 54 hours lecture. Prerequisite: (MATH 71 or MATH 71B or MATH 72 or qualifying score on current department placement test) AND (MATH 61 or two semesters of high school geometry, "C" or better, or passing score on current geometry competency test) Introduction to mathematical methods and reasoning. Topics include: set theory, logic, counting methods, probability and statistics, with	MATH 130 — College Algebra3 Units(CAN MATH10)Degree Appropriate, CSU, UC54 hours lecture.Prerequisite: MATH 71 or MATH 71B or MATH 72 or qualifying score on current department placement testA study of real numbers and sets, algebraic functions and relations, radicals and exponents, linear and quadratic equalities and inequalities, exponential and logarithmic functions, systems of linear and quadratic equations, complex numbers, series, theory of equations, mathematical induction and binomial formula.	90 hours lecture.Degree Appropriate, CSU, UCPrerequisite: MATH 180Applications of integration, techniques of integration; numericalintegration; in determinate forms and improper integrals; infinite series;plane curves and parametric equations; vectors in two and three spaceand their applications.MATH 210 — Concepts of Elementary Mathematics3 Units(CAN MATH 4)Degree Appropriate, CSU54 hours lecture.
additional topics selected from numeration and mathematical systems, number theory, geometry, graph theory and mathematical modeling. MATH 110 — Elementary Statistics 3 Units (CAN STAT 2) Degree Appropriate, CSU, UC 54 hours lecture. Prerequisite: MATH 71 or MATH 71B or MATH 72 or qualifying score on current department placement test Emphasis is placed on the understanding of statistical methods. Descriptive analysis of sample statistics, distribution of discrete and	Math 140 — Calculus for Business 4 Units (CAN MATH34) Degree Appropriate, CSU, UC 72 hours lecture. Prerequisite: MATH 130 or MATH 160 or qualifying score on current department placement test Algebraic, logarithmic, and exponential functions; limits; differentiation with applications; various techniques of integration with applications; differential equations; multi variable calculus. Credit not given to persons with credit in MATH 180 or equivalent.	Prerequisite: MATH 100 Structure and theory of the mathematics that constitute the core of K-8 mathematics curriculum. Concepts include the essential elements of a number system; fundamental understanding of operations upon whole numbers, rational numbers and integers; higher-order critical thinking skills and strategies in the area of problem solving. MATH 245 — A Transition to Advanced Mathematics 3 Units 54 hours lecture. Degree Appropriate, CSU Prerequisite: MATH 181
 Continuous random variables, estimation theory, tests of hypotheses, regression, correlation and analysis of variance. MATH 110H — Elementary Statistics – Honors 3 Units (CAN STAT 2) Degree Appropriate, CSU, UC 54 hours lecture. Prerequisite: (MATH 71 or MATH 71B or MATH 72 or qualifying passing score on current department placement test) AND acceptance into the Honors Program. Emphasis is placed on the understanding of statistical methods. Descriptive analysis of sample statistics, distribution of discrete and continuous random variables, estimation theory, tests of hypotheses, regression, correlation and analysis of variance. An honors course 	MATH 150 — Trigonometry 3 Units (CAN MATH 8) Degree Appropriate, CSU 54 hours lecture. Prerequisite: (MATH 71 or MATH 71B or MATH 72 or qualifying score on current department placement test) AND (MATH 61 or two semesters of high school geometry, "C" or better, or passing score on current geometry competency test) Trigonometry functions and inverse trigonometric functions and the graphical representations of these functions; solutions to right and oblique triangles with laws of sines and cosines; vectors; solutions to trigonometric equations; identities; polar coordinates; complex numbers and DeMoivre's Theorem.	A transition to the rigors of upper-division mathematics courses. Basic set theory and logic, relations, functions, mathematical induction, the well-ordering principle, countable and uncountable sets, the Schroder-Bernstein Theorem, the axiom of choice, Zorn's Lemma, the Heine-Borel Theorem, the Bolzano-Weierstrass Theorem. Special emphasis on how to present and understand mathematical proofs. MATH 280 — Calculus and Analytic Geometry 4 Units 72 hours lecture. Degree Appropriate, CSU, UC Prerequisite: MATH 181 Analysis of vector-valued functions of several variables, partial derivatives, differentials, the chain rule, directional derivatives and the gradient. Extrema of functions of several variables with applications.
designed to provide an enriched experience. Students may not receive credit for both MATH 110 and MATH 110H.	MATH 160 — Precalculus Mathematics 4 Units	

elimination, application of emergency procedures, circula MATH 285 — Linear Algebra and Differential Equations 5 Units ventilation, and sensory system. Application of nursing s Degree Appropriate, CSU, UC surgical patients, including neoplasms and cardiovascula Administration of medication. First order ordinary differential equations, including separable, linear, MENT 58D — Advanced Medical-Surgical Nursing and homogeneous of degree zero. Bernoulli and exact with applications and Pharmacology for PT numerical methods. Solutions to higher order differential equations using 72 hours lecture. undetermined coefficients, variation of parameters, and power series, with Prerequisite: MENT 56, MENT 56L applications. Solutions to linear and non-linear systems of differential Coreauisite: MENT 58L equations, including numerical solutions. Matrix algebra, solutions of linear Examines disease processes affecting body systems, etio systems of equations, and determinants. Vector spaces, linear independnursing care; study of drugs, standards, administration; do ence, basis and dimension, subspace and inner product space, including MENT 58L — Advanced Medical-Surgical Nursing for the Gram-Schmidt procedure. Linear transformations, kernel and range, Psychiatric Technicians Clinical eigenvalues, eigenvectors, diagonalization and symmetric matrices. (May be taken for Credit/No Credit only.) 90 hours lab. MEDICAL TERMINOLOGY *Corequisite: MENT 58* MEDI 90 — Medical Terminology **3 Units** Application of nursing skills to patients with medical/sur Degree Appropriate, CSU 54 hours lecture. Administration of medications. Introduction to the use and meaning of the medical terminology used MENT 70 — Introduction to Psychiatric Technology in various allied health fields. Relates to other allied health fields and 27 hours lecture. can apply to secretarial science majors. Prerequisite: Admission to Psychiatric Technician Program **MENTAL HEALTH/PSYCHIATRIC TECHNICIAN** Coreauisite: MENT 70L Role and function of the Psychiatric Technician; mental h MENT 40 — Introduction to Interviewing and Counseling 3 Units of personality development, self-concept, role function, a 54 hours lecture. **Degree Appropriate** interdependence; developmental disabilities theories of Provides a basic overview of the helping processes. Stresses application of techniques, behavior modification techniques. counseling theories, helping skills, and consultation theories to allow exploration of self as a helper and learn facilitating skills to bring about MENT 70L — Introduction to Psychiatric Technology change. Emphasis on establishing rapport, obtaining information and **Clinical Technicians** developing a supportive relationship in a variety of mental health (May be taken for Credit/No Credit only.) settings. Students may not receive credit for both MENT 40 and PSYC 40. 108 hours lab. Corequisite: MENT 70

The clinical experience introduces the student to facilitie Technicians community which serve the mental health field including 162 hours lecture. Degree Appropriate mentally disordered and developmentally disabled. Prerequisite: Admission to the Psychiatric Technician Program Corequisite: MENT 56L MENT 72 — Nursing Care of the Developmentally Holistic approach to assessment and intervention in the care of the medical-surgical patient. Examines physiological modes of rest and 126 hours lecture. exercise, regulation, circulation, ventilation and the sensory system; Prerequisite: MENT 56, MENT 70 medical-surgical nursing; care of the dying patient, cardiovascular Coreauisite: MENT 72L problems; calculations of drug dosage and administration of oral and Etiology of mental retardation; develops the knowledge, topical medications; study of anatomy and physiology of the human body. attitudes necessary to safely teach and train the develop

MENT 56 — Medical-Surgical Nursing for Psychiatric

MENT 56L — Clinical Experience 4 Units (May be taken for Credit/No Credit only.) Degree Appropriate 216 hours lab. Corequisite: MENT 56 Development of medical-surgical nursing skills. Application and assessment, intervention, evaluation of nursing treatment in the physiological modes of rest and exercise, regulation, nutrition,	I training are used as well as the teaching of self-help skills. Examines	54 h Corea Labo
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Disabled Person

9 Units

rculation, ng skills to medical cular problems.	MENT 72L — Nursing Care of the Developmentally 5 Units Disabled Person – Clinical (May be taken for Credit/No Credit only.) Degree Appropriate 288 hours lab.
and 4 Units Degree Appropriate	<i>Corequisite: MENT 72</i> Application of skills needed to teach, train and provide care for the developmentally disabled person. Administration of medication.
etiology, required n; dose calculations.	MENT 73L — Psychiatric Nursing for Psychiatric Technicians Clinical 5 Units (May be taken for Credit/No Credit only.) Degree Appropriate 288 hours lab.
or 1.5 Units Degree Appropriate	Corequisite: MENT 73T Clinical instruction in the treatment of mental disabilities and substance abuse.
l/surgical disorders.	MENT 73T — Psychiatric Nursing for Psychiatric Technicians 6 Units 108 hours lecture. Degree Appropriate <i>Corequisite: MENT 73L</i> Theoretical instruction in the assessment and treatment of the mentally
y 1.5 Units Degree Appropriate am	disabled, use of common medication, therapeutic communication, assertive language and leadership skills appropriate for the practicing Psychiatric Technician.
tal health theories on, and of sensory-motor	MENT 82 — Work Experience in Mental Health Technology 2 Units (May be taken for Credit/No Credit only.) Degree Appropriate 150 hours lab. Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog, MENT 72, MENT 73T
yy 2 Units Degree Appropriate	Provides majors with actual on-the-job experience in an approved work station related to classroom instruction. A minimum of 60 non-paid or 75 paid clock hours per semester is required for each unit of credit. It is recommended that the hour per week be equally distributed throughout the semester. Veterans may not use work experience courses as credit towards veterans benefits.
uding both the	METEOROLOGY
7 Units Degree Appropriate dge, skills, and elopmentally	METO 3 — Weather and the Atmospheric Environment 3 Units 54 hours lecture. Degree Appropriate, CSU, UC An introduction to the atmosphere. Processes that influence weather and dimate: seasonality, structure of the atmosphere, atmospheric stability, severe weather (hurricanes, tornadoes, thunderstorms), climate change, and the causes and effects of air pollution. Students will use a variety of weather instruments, and the course may include either field work or field trips.
and sensory-motor skills. Examines	METO 3L — Weather and Atmospheric Environment 1 Unit Laboratory

Degree Appropriate, CSU, UC hours lab. eauisite: METO 3 (May have been taken previously) oratory topics paralleling the course content of METO 3.

		Course Descriptions
MICR 1 — Principles of Microbiology5 Units(CAN BIOL 14)Degree Appropriate, CSU, UC54 hours lecture.108 hours lab.Prerequisite: CHEM 10 or CHEM 40. One year of college chemistry is recommended for all transfer majors. CHEM 50/51 sequence is preferred for biology and most pre-health professional majorsFundamental concepts of microbiology with emphasis on bacteria.Survey of microbial classification, morphology, physiology and genetics; beneficial and pathological aspects; growth and control of microbes; virology, immunology, and host-microbe interactions. Important infectious diseases of humans are surveyed. Laboratory exercises examine microbial morphology, physiology and genetics, as well as environmental influences of microorganisms. Laboratory techniques include culturing, examining, and identifying microorganisms.MICR 22 — Microbiology4 Units54 hours lecture.Degree Appropriate, CSU, UC54 hours lecture.Degree Appropriate, CSU754 hours lecture.Degree Appropriate, CSU755 hours lecture.Degree Appropriate, CSU765 A hours lecture.Degree Appropriate, CSU765 A hours lecture.Degree Appropriate, CSU766 AdvertereI Unit777 AdvertereSudaen for Credit/No Credit only.)788 hours lecture.Nors lecture.798 A concert experience in listening to recitals, media presentations, and musical demo	MUS 3A — Harmony3 Units54 hours lecture.Degree Appropriate, CSU, UCPrerequisite: MUS 2, MUS 5ACorequisite: MUS 5BAn examination of the harmonic style of Western tonal music from thecommon practice period. Topics include elementary chord syntax, theprinciples of voice leading, simple figured bass realization, sopranoharmonization, basic non-chord tones, seventh chords, basic modulationtechniques, period forms and binaries. Students will compose originalmusic in the harmonic and melodic style of Classical models.MUS 3B — Harmony3 Units54 hours lecture.Degree Appropriate, CSU, UCPrerequisite: MUS 3A, MUS 5BCorequisite: MUS 6AFurther examination of the harmonic style of Western tonal music fromthe common practice period, with emphasis on the contrapuntal musicof the Baroque Era. Topics include secondary function chords, advancednon-chord tones, advanced figured bass realization, harmonicsequences, modified species, 18th century counterpoint and imitativecontrapuntal forms. Students will write analysis papers and composeoriginal music in the harmonic and melodic style of Baroque models.MUS 3C — Harmony3 Units54 hours lecture.Degree Appropriate, CSU, UCPrerequisite: MUS 3B, MUS 6ACorequisite: MUS 3B, MUS 6A	MUS 6A — Musicianship – Advanced 2 Units 36 hours lecture. Degree Appropriate, CSU, UC 18 hours lab. Prerequisite: MUS 3A Corequisite: MUS 3B Advanced training in sight singing, aural perception and dictation, including soprano-bass dictation of modulating Bach-style chorales and imitative counterpoint. Students will be aided by the use of a computer lab, and documented lab time outside of class will be required for successful course completion. MUS 6B — Musicianship – Advanced 2 Units 36 hours lecture. Degree Appropriate, CSU, UC 18 hours lab. Prerequisite: MUS 3B, MUS 6A Corequisite: MUS 3B, MUS 6A Corequisite: MUS 3C Provides further training in sight singing, aural perception and dictation, including soprano-bass dictation of chromatic chord progressions and aural reduction of decorated instrumental textures. Students will be aided by the use of a computer lab, and documented lab time outside of class will be required for successful course completion. MUS 7 — Fundamentals of Music 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Non-music major course dealing with basic elements of music notation, melody, rhythm, and harmony. Written exercises utilizing the techniques of melody, rhythm, and harmony. Written exercises utilizing the techniques of melody, rhythm, and harmony will be employed. Recommended for prospective elementary school teachers. MUS 9 — Introduction to Music Technology 3 Units
(May be taken for Credit/No Credit only.) 18 hours lecture. A concert experience in listening to recitals, media presentations, and musical demonstrations and lectures given by faculty, artists, and students. Attendance at and reports on additional live concerts may be required. Students who repeat this course will improve skills through further instruction and practice. Course open to all students. MUS 2 — Music Theory 54 hours lecture. 3 Units 54 hours lecture. <i>Corequisite: MUS 5A</i> Study of harmony and form in Western tonal music. Explores the concept of tonality, the properties of melody, basic chord grammar and the	repertoire. Topics include modal mixture, chromatic harmony, extended tonicization, advanced modulation techniques, lieder, rondo and sonata form. Students will write analysis papers and compose original music in the harmonic and melodic style of Romantic models. MUS 5A — Musicianship – Ear Training and Sight Singing 1 Unit 18 hours lecture. Degree Appropriate, CSU, UC 18 hours lab. <i>Corequisite: MUS 2</i> Required for music majors. Emphasizes sight singing, aural perception and	 (May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 36 hours lab. Advisory: Eligibility for ENGL 68 A survey of the uses of computers and electronic devices to capture, create, modify and disseminate music. Provides an introduction to the principles of musical acoustics, sound recording, and digital audio. Computer software for MIDI sequencing, sound synthesis, digital
mechanisms by which music projects meaning. Includes a comprehensive review of music fundamentals, including music notation, meter, scales, intervals and chord construction. Required for music majors.	MUS 5B — Musicianship – Ear Training and Sight Singing1 Unit18 hours lecture.Degree Appropriate, CSU, UC18 hours lab.Prerequisite: MUS 2, MUS 5ACorequisite: MUS 3AProvides further training in sight singing, aural perception and dictation, including soprano-bass dictation of diatonic Bach-style chorales. Students will be aided by the use of a computer lab, and documented lab time outside of class will be required for successful course completion.	

Spring Spring Spring Spreaster Degree Appropriate, CSU, U 54 hours lettre. Degree Appropriate, CSU, U A survey of western music from the 18th to the early 21st certury including examples for survey and overtern utrus to that to the survey of utrus in an approximation and parcelia. The survey is characteria. Na user of the survey of periods. Lettures are augmented by recording and other support media garagements, and variable. Material survey of azer as a significant compositions. And recordings, and the condings and the condings and the condings and the condings and the condings. Survey of next music from the 18th music is. Nature 40th and the survey of the times for credit.) 54 hours letture. Degree Appropriate, CSU, U 10th Mode Material Survey of azer as a significant compositions and recordings and the condings and t			Т
MUS 12 — History of Jazz 3 units Degree Appropriate, (SU, U) 54 hours lecture. MUS 14 — Model of the grade of Credit, VIb Credit, JS hours, Lectures, finand credit on and practice. MUS 14 — Model of the states for a reliable of the runsice	Spring Semester Degree Appropriate, CSU, UC 54 hours lecture. A survey of western music from the 18th to the early 21st century including examples from several non-western cultures that have influenced music of those style periods. Lectures are augmented by recordings and other support media pertinent to the cultures/period	54 hours lecture. Degree Appropriate, CSU The study of American folk music by both region and period. Instruction will include lecture, reading, and listening assignments, and various audio-visual materials. No previous musical experience required. MUS 15 — Rock Music History and Appreciation 3 Units Degree Appropriate, CSU, UC Degree Appropriate, CSU, UC 3 Units	 (May be taken four times for credit.) Degree Appropriate, CSU, UC 18 hours lecture. 18 hours lab. Advisory: MUS 17B The style, technique and interpretation of piano music from the 17th century to the present is studied collectively and individually. Sight reading, improvisation and ensemble playing will be emphasized.
conomic, and cultural contexts of the music will be stressed. Degree Appropriate, CSU, UC Degree Appropriate, CSU, UC MUS 13 — Introduction to Music Appreciation a survey of western music from the Medieral period through in the 21st one performance of panol there are sugmented by recordings and dotter support media period through further instruction and practice. To Music 14 MUS 13H — Introduction to Music Appreciation — Honors Bogram and integretation of the adaption of the singing or performance of panol there are upmented by recordings and dotter support media problems. Student is not sub addition and practice. To Music 14 MUS 13H — Introduction to Music Appreciation — Honors Bogram and integretation on the Student's who repeat this course will improve skills through further instruction and practice. MUS 13H — Introduction to Music Appreciation — Honors Bogram and the support media performance of panol there instruction and practice. To make and the support of the singing of the music majors. Students who repeat this course will improve skills through further instruction and practice. MUS 13H — Morid Music Barteniang Case Phano merica, Students who repeat this course will improve skills through further instruction and practice. To mice the associate disponent and the support media performance of pianol iterature with emphasis on stander dogram interature. MUS 13H — Morid Music Barteniang Case Phano merica, Students who repeat this course will improve skills through further instruction and practice. MUS 20B — Intermediate Case Soice 1 Unit (May be taken two times for credit.) Reading and performance of pianol iterature with emphasis on starder dogram in meaning and performance of	Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. <i>Advisory: Eligibility for ENGL 68</i> A survey of jazz as a significant American art form from its roots in African and Creole music to the present. Major styles, leading	54 hours lecture. Historical survey of rock music from its beginnings in the early 50's to the present. Rhythm & Blues, Rockabilly, the British Invasion, Motown, Soul, Folk Rock, Hard Rock, Punk, Heavy Metal, and various Alternative Rock styles will discussed. Personalities and musical styles will be related to the sociology of the time period being studied. MUS 16 — Individual Instruction 3 Units	instruction and practice. Recommended for music majors. MUS 19 — Class Organ 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC 18 hours lecture. 18 hours lab. Advisory: MUS 17A and MUS 17B or equivalent
MUS 13H — Introduction to Music Appreciation – Honors 3 units Degree Appropriate, CSU, UC S4 hours lecture. Degree Appropriate, CSU, UC Prerequisite: Acceptance into the Honors Program 1 unit An introductory study of music from a variety of cultures including a survey of western music from the Medieval period through the 21st century. Lectures are augmented by recordings and other support media required. Attending at least one live concert is required. An honors course designed to provide an enriched experience. Students may not receive credit for both MUS 13 and MUS 13H. It ther instruction and practice. 1 Unit MUS 14A — World Music 3 Units B hours lecture. 18 hours lab. Reading and performance of piano literature with emphasis on scales, chord progressions, and sight reading. Students who repeat this course will improve skills through further instruction and practice. 10 mit MUS 14A — World Music 3 Units B hours lecture. 18 hours lecture. 18 hours lecture. 74 hours lecture. Degree Appropriate, CSU, UC Will improve skills through further instruction and practice. 10 mit Advisory: Eligibility for ENGL 68 Students who repeat this course and ecommended tass or credit.) 18 hours lecture. 18 hours lecture. 18 hours lecture. 18 hours lecture. 18 hours lecture. 18 hours lecture. 12 warines the dominant musical cultures of the world within Africa, t	economic, and cultural contexts of the music will be stressed. MUS 13 — Introduction to Music Appreciation 3 Units 54 hours lecture. Degree Appropriate, CSU, UC An introductory study of music from a variety of cultures including a survey of western music from the Medieval period through the 21st century. Lectures are augmented by recordings and other support media pertinent to the culture/period being studied. Attending at least one	 (May be taken four times for credit.) 18 hours lecture. 108 hours lab. Prerequisite: Admission by audition A course in applied music for students also enrolled in a major performing group. Instruction includes a private one-half hour lesson plus five and one-half hours of laboratory practice per week. Individual problems of performance techniques, interpretation, and repertoire are 	and interpretation of standard organ literature. Students who repeat this course will improve skills through further instruction and practice. MUS 20A — Elementary Class Voice 1 Unit (May be taken two times for credit.) Degree Appropriate, CSU, UC 18 hours lecture. 18 hours lab. Group instruction on the basics of singing with special emphasis on breath control and its importance in the singing of the musical line.
MUS 14A — World Music3 Units54 hours lecture.Degree Appropriate, CSU, UCAdvisory: Eligibility for ENGL 68MUS 17B — Intermediate Class Piano1 UnitCAN MUS 24)Degree Appropriate, CSU, UC(An MUS 24)Degree Appropriate, CSU, UC(May be taken two times for credit.)18 hours lecture.18 hours lecture.18 hours lecture.18 hours lab.18 hours lab.Advisory: MUS 17A or professor approval18 hours lab.Advisory: MUS 20B10 mit in prove skills through further instruction and practice.for aesthetic, social, and spiritual purposes.10 mit inprove skills through further instruction and practice.	54 hours lecture. Degree Appropriate, CSU, UC <i>Prerequisite: Acceptance into the Honors Program</i> An introductory study of music from a variety of cultures including a survey of western music from the Medieval period through the 21st century. Lectures are augmented by recordings and other support media pertinent to the culture/period being studied. Attending at least one live concert is required. An honors course designed to provide an enriched experience. Students may not receive credit for both MUS 13	further instruction and practice. MUS 17A — Elementary Class Piano 1 Unit (CAN MUS 22) Degree Appropriate, CSU, UC (May be taken two times for credit.) 18 hours lecture. 18 hours lab. Reading and performance of piano literature with emphasis on scales, chord progressions, and sight reading. Students who repeat this course	and recommended for all music majors. Students who repeat this cours will improve skills through further instruction and practice. MUS 20B — Intermediate Class Voice 1 Unit (May be taken two times for credit.) Degree Appropriate, CSU, U 18 hours lecture. 18 hours lab. <i>Advisory: MUS 20A</i> Group and individual instruction toward mastering the basic skills
	54 hours lecture. Degree Appropriate, CSU, UC Advisory: Eligibility for ENGL 68 Examines the dominant musical cultures of the world within Africa, the Americas, and Asia and compares these to Western popular music. Identifies vocal and instrumental genres within selected cultures and examines the harmonic, melodic, and rhythmic characteristics of each style. Lectures, films, recordings, and media presentations will assist the student in exploring the ways in which music is used around the world	MUS 17B — Intermediate Class Piano 1 Unit (CAN MUS 24) Degree Appropriate, CSU, UC (May be taken two times for credit.) 18 hours lecture. 18 hours lab. Advisory: MUS 17A or professor approval Reading and performances of piano literature with further emphasis on scales, chord progressions, and sight reading. Students who repeat this	vocal problems. Students who repeat this course will improve skills through further instruction and practice. MUS 21 — Advanced Class Voice 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC 18 hours lecture. 18 hours lab. <i>Advisory: MUS 20B</i> Group and individual study of the style, techniques, and interpretation of art songs and songs from operas and musicals. Emphasis will be placed on diction and pronunciation of foreign languages. Students who repeat this

	Course Descriptions
Attendance at all performances is requir course will improve skills through furthe	
MUS 32 — Masterworks Chorale (May be taken four times for credit.) 54 hours lab. <i>Prerequisite: Admission by audition during</i> This Soprano, Alto, Tenor, Bass choir will ranging from the Baroque era to the 200 preparation and performance of quality time will be spent on vocal developmen who repeat this course will improve thei instruction, practice, and knowledge of w	perform major choral works th century. In addition to choral literature from all genres, t and music theory. Students r skills through further
MUS 34 — Women's Vocal Ensemble (May be taken four times for credit.) (May be taken for option of letter grade 108 hours lab.	2 Units Degree Appropriate, CSU, UC or Credit/No Credit.)

108 hours lab.
Prerequisite: Admission by audition during the first week of class
This women's group will study and perform selected Classical works, folk
songs, spirituals, and popular compositions. Attendance is required at all
public performances. Students who repeat this this course will improve
skills through further instruction and practice.

1 Unit

2 Units

1 Unit

Degree Appropriate, CSU, UC

Degree Appropriate, CSU, UC

Degree Appropriate, CSU, UC

MUS 36 — Concert and Community Band	2 Units
(May be taken four times for credit.)	Degree Appropriate, CSU, UC
(May be taken for option of letter grade or C	redit/No Credit.)
108 hours lab.	
Advisory: Previous band experience	
Study and performance of standard and new	band literature. Experience
will be given to capable student directors, so	
composers. Attendance is required at all publ	ic performances. Students

(May be taken two times for credit.) Degree Appropriate, CSU, UC 18 hours lecture. 18 hours lab. Advisory: MUS 23A Techniques for reading and playing music arranged for the solo guitar.

MUS 22 — Conducting

18 hours lecture.

18 hours lecture.

18 hours lab.

18 hours lab.

(May be taken four times for credit.)

MUS 23A — Elementary Class Guitar

MUS 23B — Intermediate Class Guitar

(May be taken two times for credit.)

Students must furnish their own acoustic guitar. Students who repeat this course will improve skills through further instruction and practice.

Teaches and practices basic beat patterns, score reading, and rehearsal

techniques. Offers an opportunity to learn and apply the techniques

needed for group direction and leadership. Students who repeat this

course will improve skills through further instruction and practice.

Acoustic guitar playing, note reading, strumming, finger picking and

improvisation. Students must furnish their own guitars. Students who repeat

this course will improve skills through further instruction and practice.

1 Unit

1 Unit

1 Unit

Degree Appropriate, CSU

Degree Appropriate, CSU, UC

MUS 25B — Jazz Improvisation

equivalent experience

MUS 27 — Chamber Winds

MUS 29 — Choral Workshop

(May be taken four times for credit.)

Summer Semester

(May be taken four times for credit.)

Corequisite: Admission by audition; MUS 49

18 hours lecture.

18 hours lab.

108 hours lab.

(May be taken four times for credit.)

(May be taken for option of letter grade or Credit/No Credit.)

Advisory: MUS 2 or MUS 7 and/or audition by professor AND MUS 25A or

Styles and techniques of improvisation. Each student must furnish

his/her own instrument and be able to perform individually and with

the class. Augments and supplements MUS 25A. Students who repeat

this course will improve skills through further instruction and practice.

This select ensemble of wind instruments will study and perform small

ensemble music by major composers. Includes brass and woodwind

required at all public performances. Students who repeat this course

quintets and ensembles for families of instruments. Attendance is

will improve skills through further instruction and practice.

54 hours lab. MUS 24 — Advanced Class Guitar 1 Unit Open to all students without an audition. Choral music of all genres with an (May be taken four times for credit.) Degree Appropriate, CSU, UC emphasis on strengthening choral skills, including sight singing, tone, blend, 18 hours lecture. balance and good vocal technique. Covers choral tone of the Renaissance to 18 hours lab. correct use of the microphone when singing pop or vocal jazz. Several Advisory: MUS 23B quest conductors from local universities will provide clinics. Students who The style, technique, and interpretation of guitar music of the 18th and repeat this course will improve skills through further instruction and practice. who repeat this course will improve skills through further instruction 19th centuries will be studied and performed. Sight reading and and practice. ensemble playing will be emphasized. Students must furnish their own MUS 30 — Collegiate Chorale 1 Unit acoustic guitars. Students who repeat this course will improve skills (May be taken four times for credit.) Degree Appropriate, CSU, UC MUS 38 — Ensemble 1 Unit through further instruction and practice. 54 hours lab. (May be taken four times for credit.) Degree Appropriate, CSU, UC A non-auditioned mixed choral ensemble open to all students. A variety (May be taken for option of letter grade or Credit/No Credit.) MUS 25A — Jazz Improvisation 1 Unit of mixed choral repertoire will be studied and performed, from music of 18 hours lecture. (May be taken four times for credit.) Degree Appropriate, CSU, UC the Renaissance to contemporary Pop, Broadway, and Vocal Jazz. 18 hours lab. (May be taken for option of letter grade or Credit/No Credit.) Rehearsal time will also be devoted to vocal development and Prerequisite: Ability to read music or admission by audition 18 hours lecture. improving music theory skills. Students who repeat this course will The study and performance of music written for small ensembles. 18 hours lab. improve skills through further instruction and practice. Students who repeat this course will improve skills through further Advisory: MUS 2 or MUS 7 and/or audition by professor instruction and practice. Styles and techniques of improvisation. Each student must furnish MUS 31 — Concert Choir 2 Units his/her own instrument and be able to perform individually and with (May be taken four times for credit.) Degree Appropriate, CSU, UC MUS 39 — Laboratory Band 2 Units the class. Students who repeat this course will improve skills through (May be taken for option of letter grade or Credit/No Credit.) (May be taken four times for credit.) Degree Appropriate, CSU further instruction and practice. 108 hours lab. (May be taken for option of letter grade or Credit/No Credit.) Prerequisite: Admission by audition the first week of class 108 hours lab. A mixed choral ensemble in which students perform a variety of major Prerequisite: Admission by audition choral works. Classical songs are rehearsed in class and performed for a Study and performance of jazz and popular music of all types. Provides public audience. Sight singing skills and proper vocal technique are the necessary training and experience for MUS 47, Jazz Band, or for the emphasized. Voice placement auditions are held the first week of class. improvement of jazz skills and understanding. Students who repeat this course will improve skills through further instruction and practice.

MUS 40 — Pep Band1 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC54 hours lab.Prerequisite: Admission by audition	An instrumental ensemble dealing with all types of popular music and jazz. Preference will be given to performers playing more than one instrument. Students who repeat this course will improve skills through further instruction and practice.	MUS 99C — Special Projects in Music3 Units(May be taken four times for credit.)Degree Appropriate162 hours lab.Offered to selected students in recognition of academic interests and
Study and performance of standard and contemporary music for athletic and school spirit functions. Attendance is required at assigned public performances. Students who repeat this course will improve skills through further instruction and practice.	MUS 48 — Men's Vocal Ensemble2 Units(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)108 hours lab.	abilities to give them the opportunity to explore these interests and abilities in greater depth. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students must have an instructor's approval
MUS 44 — Vocal Jazz Ensemble3 Units(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)162 hours lab.Prerequisite: Admission by auditionPrecequisite: Admission by audition	Prerequisite: Admission by audition the first week of class The study and performance of selected Classical works, folk songs, spirituals, and popular compositions. Attendance is required at all public performances. Students who repeat this course will improve skills through further instruction and practice.	before enrolling in this course. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced. Projects must be approved in advance.
A mixed vocal group, which includes a live rhythm section for accompaniment. Performance of vocal music in all jazz idioms. Performs for the public at festivals and at competitions. Scat improvisations and the study of jazz theory will be covered. Auditions are held the first week of classes. Students who repeat this course will improve skills through further instruction and practice.	MUS 49 — Wind Ensemble3 Units(May be taken four times for credit.)Degree Appropriate, CSU, UC162 hours lab.Prerequisite: Admission by auditionThe premier Classical wind and percussion ensemble at the College.Students must have previous instrumental training and demonstrate	NURS 1A — The Nursing Process I 4.75 Unit 45 hours lecture. Degree Appropriate, CSU 126 hours lab. Prerequisite: Admission to Nursing Program; ANAT 35 or equivalent and ANAT 36 or equivalent, or ANAT 10A or equivalent and ANAT 10B or equivalent, and MICR 22 or equivalent, or MICR 1 or equivalent,
MUS 45 — Chamber Singers3 Units(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)162 hours lab.Prerequisite: Admission by auditionPrecequisite: Admission by audition	proficiency. Requires public performances. Concerts emphasize works of major composers, original compositions, and guest artists. Experience may be given to capable students as directors, soloists, arrangers, and composers. Students who repeat this course will improve skills through further instruction and practice.	<i>corequisite: NURS 2</i> Principles of nursing as related to a culturally diverse population, adulthood through senescence. Theory and application of the Nursing Process, including meaning of illness, promoting health patterns,
A highly select mixed choral group, specializing in smaller ensemble repertoire. A wide variety of choral literature is performed publicly several times each semester and a performance tour occurs each Spring	MUS 99A — Special Projects in Music1 Unit(May be taken four times for credit.)Degree Appropriate, CSU18 hours lecture.Degree Appropriate, CSU	hygiene, safety, asepsis, medication administration, elimination, communication. The Betty Neuman Model serves as the conceptual framework.
semester. Emphasizes advanced musical skills and vocal techniques while focusing on the importance of blend, balance, and tone. Auditions for this course are held each May. Students who repeat this course will improve skills through further instruction and practice.	Offered to selected students in recognition of academic interests and abilities to give them the opportunity to explore these interests and abilities in greater depth. The content of each course and the methods of study vary from semester to semester and depend on the particular	NURS 1B — The Nursing Process II 4.75 Unit 45 hours lecture. Degree Appropriate, CSU 126 hours lab. Prerequisite: NURS 1A or Advanced Placement
MUS 46 — Mt. SAC Singers 2 Units (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.)	authorization before enrolling in this course. Students repeating this	Corequisite: NURS 2 Principles of nursing as related to culturally diverse population, adulthood through senescence Theory and application of the Nursing

(May be taken four times for credit.) Degree Appropriate, (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture.

36 hours lab.

Prerequisite: Admission by audition

The "Mt. SAC Singers" is a select choral ensemble, specializing in choreographed popular and musical theater literature. Includes a wide variety of music performed publicly several times every semester. Emphasizes advanced musical skills, vocal technique, choreography and showmanship skills. Students who repeat this course will improve skills through further instruction and practice.

MUS 47 — Jazz Band

(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 162 hours lab. Prerequisite: Audition may be required

MUS 99B — Special Projects in Music (May be taken four times for credit.)

be approved in advance.

3 Units

2 Units Degree Appropriate, CSU

36 hours lecture. Offered to selected students in recognition of academic interests and abilities to give them the opportunity to explore these interests and abilities in greater depth. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students must have an instructor's authorization before enrolling in this course. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced. Projects must be approved in advance.

the instructor to ensure that proficiencies are enhanced. Projects must

4.75 Unit ropriate, CSU Principles of nursing as related to culturally diverse population, adulthood through senescence. Theory and application of the Nursing Process, including wound care, legal/ethical aspects, comfort, fluid and

electrolytes, spirituality, and nursing trends. The Betty Neuman Model serves as the conceptual framework.

NURS 2 — Pharmacology 36 hours lecture.

2 Units

Degree Appropriate, CSU Prerequisite: Admission to Nursing Program and eligibility for MATH 51 Corequisite: NURS 1A

The ethical and legal responsibilities in the administration of medications. Application of mathematical concepts, the Nursing Process, and drug therapy to the administration of fluids and medications.

		Course Descriptions
NURS 3 — Medical-Surgical Nursing: Locomotion/ Sensation/ Integument/Oncology/Immunology 3.5 Units 30 hours lecture. Degree Appropriate, CSU 99 hours lab. Prerequisite: NURS 1B and NURS 2 or Advanced Placement Concepts of nursing assessment and intervention with application to clients with integumentary and immunologic disorders, as well as dysfunctions of sensation and locomotion. An introduction to oncology nursing is included. The Betty Neuman Model serves as the conceptual framework. NURS 4 — Maternity Nursing 3 Units 27 hours lecture. Degree Appropriate, CSU 81 hours lab. Degree Appropriate, CSU	NURS 9 — Leadership in Nursing 1 Unit 18 hours lecture. Degree Appropriate, CSU Prerequisite: NURS 7 or Advanced Placement Corequisite: NURS 8 Assists the second year student to develop cognitive and leadership skills for first level management positions. Includes exploration and analysis of current trends and issues in nursing. NURS 10 — Medical-Surgical Nursing: Integration/ 4 Units Regulation 45 hours lecture. Degree Appropriate, CSU 96 hours lab. Prerequisite: NURS 8, NURS 9 or Advanced Placement Concepts of nursing assessment and intervention with application to	NURS 22 — Nursing Work Experience Program 3 Units (May be taken four times for credit.) Non-Degree Credit (May be taken for Credit/No Credit only.) 225 hours lab. 225 hours lab. Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog. Current satisfactory status in the Nursing Program. On-the-job experience for nursing students in an approved work setting related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice.
Prerequisite: NURS 3 or Advanced Placement Concepts of nursing assessment and intervention with application to maternity and newborn clients. The Betty Neuman Model serves as the conceptual framework.	Concepts of nursing assessment and intervention with application to clients with neurological and endocrine disorders. The Betty Neuman Model serves as the conceptual framework. NURS 11 — Preceptorship in Nursing 2 Units	NURS 23 — Nursing Work Experience Program 4 Units (May be taken four times for credit.) Non-Degree Credit (May be taken for Credit/No Credit only.) Non-Degree Credit
NURS 5 — Psychiatric Nursing3 Units27 hours lecture.Degree Appropriate, CSU81 hours lab.Prerequisite: NURS 4 or Advanced Placement and PSYC 1AConcepts of nursing assessment and intervention with application to clients with psychiatric disorders in a mental health setting. The Betty Neuman Model serves as the conceptual framework.	(May be taken for Credit/No Credit only.) Degree Appropriate, CSU 112 hours lab. <i>Advisory: NURS 10 or Advanced Placement</i> Students participate as a pre-licensed health team member immediately prior to graduation. Students assume responsibility for a group of clients under direct supervision of a qualified registered nurse.	 300 hours lab. Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog. Current satisfactory status in the Nursing Program. On-the-job experience for nursing students in an approved work setting related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required
NURS 6 — Pediatric Nursing3 Units27 hours lecture.Degree Appropriate, CSU81 hours lab.Degree Appropriate, CSU	NURS 20 — Nursing Work Experience Program1 Unit(May be taken four times for credit.)Non-Degree Credit(May be taken for Credit/No Credit only.)75 hours lab.	for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice.
Prerequisite: NURS 5 or Advanced Placement and CHLD 10 or PSYC 14 Concepts of nursing assessment and intervention with application to pediatric clients. The Betty Neuman Model serves as the conceptual framework.	Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog. Current satisfactory status in the Nursing Program. On-the-job experience for nursing students in an approved work setting	(May be taken for Credit/No Credit only.) Degree Appropriate 36 hours lecture. 54 hours lab. Prerequisite: Advanced Placement; PT (Psychiatric Technician) or
NURS 7 — Medical-Surgical Nursing: Nutrition/ Elimination/Surgical Asepsis 7 Units 60 hours lecture. Degree Appropriate, CSU 198 hours lab. Prerequisite: NURS 6 or Advanced Placement	related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice.	LVN (Licensed Vocational Nurse); ANÀT 35 or equivalent and ANAT 36 or equivalent, or ANAT 10A or equivalent and ANAT 10B or equivalent, and MICR 22 or equivalent, or MICR 1 or equivalent, and ENGL 1A or equivalent, and PSYC 1A or equivalent, and CHLD 10 or equivalent or PSYC 14 or equivalent
Concepts of nursing assessment and intervention with application to clients with problems of nutrition, elimination, and the reproductive systems. Clients in pre-, intra-, and post-operative settings are included. The Betty Neuman Model serves as the conceptual framework.	NURS 21 — Nursing Work Experience Program 2 Units (May be taken four times for credit.) Non-Degree Credit (May be taken for Credit/No Credit only.) 150 hours lab.	For the LVN (Licensed Vocational Nurse), PT (Psychiatric Technician) or advanced placement student transitioning into the role of the RN (Registered Nurse). Theory and application of concepts of physical assessment, the relationship of homeostatic mechanisms to fluid and electrotic balance (includence utilizing the Detty Neuroper Medal as the
NURS 8 — Medical-Surgical Nursing: Circulation and Oxygenation 5 Units 45 hours lecture. Degree Appropriate, CSU 144 hours lab. Prerequisite: NURS 7 or Advanced Placement Corequisite: NURS 9 Concepts for nursing assessment and intervention with application to clients with cardiovascular and pulmonary problems. The Betty Neuman Model serves as the conceptual framework.	 Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog. Current satisfactory status in the Nursing Program. On-the-job experience for nursing students in an approved work setting related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice. 	electrolyte balance/imbalance utilizing the Betty Neuman Model as the conceptual framework.

Section 10 181

course Descriptions		
NURS 99 — Special Projects in Nursing (May be taken four times for credit.)2 Units Non-Degree Credit(May be taken for Credit/No Credit only.)108 hours lab.108 hours lab.Prerequisite: Placement in Nursing ProgramProvides students the opportunity to explore a discipline in greater depth. Content of each course and the methods of study will depend on the particular project. Instructor's authorization before enrolling is required.	NF 28 — Cultural and Ethnic Foods 3 Units 54 hours lecture. Degree Appropriate, CSU, UC <i>Advisory: Eligibility for ENGL 68</i> Regional, ethnic, cultural, religious, historical and social influences on food patterns and cuisines. Core components: specialized equipment and utensils related to cultures; traditional foods of selected cultures; geographic factors in food availability; global food issues; sanitation and safety practices.	NF 82 — Vegetarian Cuisine1 Unit(May be taken three times for credit.)Non-Degree Credit(May be taken for option of letter grade or Credit/No Credit.)12 hours lecture.18 hours lab.Principles and techniques of vegetarian food preparation and investigation of issues related to vegetarian eating practices. Includes laboratory experience in preparation of vegetarian foods and meals.
NUTRITION & FOODNF 10 — Nutrition for Personal Health and Wellness3 Units54 hours lecture.Degree Appropriate, CSUPrerequisite: Eligibility for ENGL 68Basic principles of human nutrition and their relationship to optimum health. Emphasizes nutrient needs, food selection and weight control during the various life stages from prenatal to adult. Student food intake is evaluated in several ways including computer diet analysis. This course is intended for non-health science majors.	NF 30 — Food Science Technologies 3 Units 54 hours lecture. Degree Appropriate, CSU Advisory: Eligibility for ENGL 68 Exploration of food chemistry, food processing and technology and how these affects the color, flavor, texture, aroma and quality of foods. Core components: government regulation of processing and labeling, sensory evaluation, scientific research methods, function of water in foods, pH and acidity, food processing technologies, nutritional labeling, packaging; dispersion systems, enzyme reactions, food additives, composition and properties of food.	OCEANOGRAPHY OCEA 10 — Introduction to Oceanography 3 Units 54 hours lecture. Degree Appropriate, CSU, UC An introduction to the ocean environment including the geologic, chemical, physical, and ecological aspects of the field. Topics include plate tectonics, currents, waves, tides, shores and human impact on the oceans. Field trips included. OCEA 10H — Introduction to Oceanography – Honors 3 Units 54 hours lecture. Degree Appropriate, CSU, UC
NF 20 — Principles of Foods With Lab3 Units36 hours lecture.Degree Appropriate, CSU54 hours lab.Introduction to basic food science principles and food preparationprocedures with emphasis on ingredient functions and interaction; foodpreparation techniques and skills; sensory evaluation standards; foodsafety and sanitation; food preparation equipment and utensils; storagestandards; and nutrient retention.NF 25 — Essentials of Nutrition3 Units	NF 61 — Creative Foods 3 Units 36 hours lecture. Degree Appropriate 54 hours lab. Advisory: NF 20 or food preparation experience Instruction in the skills necessary for more advanced methods of food preparation. Topics include garde manger, baking and pastry, and international cuisine, techniques of healthy cooking, and vegetarian cuisine with emphasis placed on knife skills, garnishing, plate presentation and creative decorating.	Prerequisite: Acceptance into the Honors Program An honors course designed to provide an enriched experience. Introduces the geological, chemical, physical, and biological aspects of the Earth's ocean. Topics include plate tectonics, physiography of ocean basins and continental margins, ocean sediment, atmosphere and ocean circulation, waves and tides, coasts, and marine ecology. The companion Oceanography Lab (OCEA 10L) is recommended for students needing a lab to transfer to a 4-year college/university. Field trips are required. Students may not receive credit for both OCEA 10 and OCEA 10H.
54 hours lecture. Degree Appropriate, CSU, UC Prerequisite: Eligibility for ENGL 68 Scientific concepts of nutrition related to the function of nutrients in basic life processes with emphasis on current health issues; individual needs; functions and sources of nutrients; scientific method for analysis and evaluation of nutrition information; dietary guidelines and current nutrition recommendations; digestion, absorption and metabolism; health, fitness and disease; nutrition in the life span.	NF 62 — Meal Management 3 Units 36 hours lecture. Degree Appropriate, CSU 54 hours lab. Advisory: NF20 or equivalent food preparation experience Develop management skills related to food preparation, emphasizing planning, preparing, and serving adequate and attractive meals while managing resources including time, money and labor. Includes laboratory experience in planning, preparing and serving meals.	OCEA 10L — Introduction to Oceanography Laboratory 1 Unit 54 hours lab. Degree Appropriate, CSU, UC Corequisite: OCEA 10 or OCEA 10H (May have been taken previously) Laboratory applications and problem-solving in oceanography, including related aspects of geology, meteorology, and marine biology. Recommended for students needing a lab to transfer to a 4-year college/university. PHILOSOPHY
NF 25H — Essentials of Nutrition – Honors3 Units54 hours lecture.Degree Appropriate, CSU, UCPrerequisite: Acceptance into the Honors ProgramScientific concepts of nutrition related to the function of nutrients in basic life processes with emphasis on current health issues; individual needs; functions and sources of nutrients; scientific method for analysis and evaluation of nutrition information; dietary guidelines and current nutrition recommendations; digestion, absorption and metabolism; health, fitness and disease; nutrition in the life span. An honors course designed to provide an enriched experience. Students may not receive credit for both NF 25 and NF 25H.	NF 81 — Cooking for Your Heart and Health1 Unit(May be taken three times for credit.)Non-Degree Credit(May be taken for option of letter grade or Credit/No Credit.)12 hours lecture.12 hours lecture.18 hours lab.Principles and techniques of healthful food preparation emphasizing the reduction of fat, saturated fat, trans fat, cholesterol, and sodium, and the increase of fiber and nutrients in foods. The course includes laboratory experience in preparation of health promoting foods and meals.	PHIL 3 — Logic in Practice3 Units(CAN PHIL 6)Degree Appropriate, CSU, UC54 hours lecture.Prerequisite: Eligibility for ENGL 68The analysis of language as an instrument of sound thinking in morals, politics and everyday life. Assists students to analyze an argument, avoid faulty conclusions in reasoning, understand levels of meaning and kinds of arguments, avoid verbal pitfalls, understand the steps of scientific methods and identify value assumptions.

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PHIL 3H — Logic in Practice – Honors3 Units54 hours lecture.Degree Appropriate, CSU, UCPrerequisite: Acceptance into the Honors ProgramThe analysis of language as an instrument of sound thinking in morals, politics and everyday life. Assists students to analyze an argument, avoid faulty conclusions in reasoning, understand levels of meaning and kinds of arguments, avoid verbal pitfalls, understand the steps of scientific methods and identify value assumptions. An honors course designed to provide an enriched experience.Students may not receive credit for both PHIL 3 and PHIL 3H.	PHIL 12H — Ethics – Honors3 Units(CAN PHIL 4)Degree Appropriate, CSU, UC54 hours lecture.Prerequisite: Acceptance into the Honors ProgramCritical analysis of empirical and normative factors involved in choice,including an examination of major ethical theories and their applicationto the study of moral problems. An honors course designed to providean enriched experience. Students may not receive credit for bothPHIL 12 and PHIL 12H.	PHOT 2 — Laboratory Studies: Color Photography (May be taken three times for credit.) (May be taken for Credit/No Credit only.) 54 hours lab. Corequisite: PHOT 20 (May have been taken previously) Extended color laboratory experiences to supplement those available in the regular program. Provides students the opportunity to pursue more advanced projects and experiments. Students who repeat this course will improve skills through further instruction and practice.1 Unit Non-Degree Credit Non-Degree Credit
PHIL 5 — Introduction to Philosophy 3 Units (CAN PHIL 2) Degree Appropriate, CSU, UC 54 hours lecture. Prerequisite: Eligibility for ENGL 68 An exploration of basic issues in ethics, social philosophy, metaphysics, theories of knowledge and contemporary philosophies of life. PHIL 5H — Introduction to Philosophy – Honors 3 Units (CAN PHIL 2) Degree Appropriate, CSU, UC	PHIL 15 — Major World Religions 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Prerequisite: Eligibility for ENGL 68 Examines the salient features of the world's major and enduring religions. Religion is approached as the expression of one's ultimate concern as a means of understanding the historic and ideological foundations and aspirations of the peoples of the world. The following (or more) religions are presented and examined both appreciatively and critically: Hinduism, Buddhism, Taoism, Confucianism, Shinto Islam, Judaism, and Christianity.	PHOT 4 — Digital Cameras and Composition 1 Unit Non-Degree Credit (May be taken for option of letter grade or Credit/No Credit.) 18 hours lecture. Use of digital cameras, lenses, filters, and exposure to compose quality photographs. Shooting assignments are given for analysis in class. Camera will be required after the second week. PHOT 10 — Basic Digital and Film Photography 3 Units
54 hours lecture. <i>Prerequisite: Acceptance into the Honors Program</i> An exploration of basic issues in ethics, social philosophy, metaphysics, theories of knowledge and contemporary philosophies of life. An honors course designed to provide an enriched experience. Students may not receive credit for both PHIL 5 and PHIL 5H.	PHIL 15H — Major World Religions – Honors 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Prerequisite: Acceptance into the Honors Program Examines the salient features of the world's major and enduring religions. Religion is approached as the expression of one's ultimate concern as a means of understanding the historic and ideological foundations and	36 hours lecture.Degree Appropriate, CSU, UC54 hours lab.The basic mechanical, optical, and chemical principles of photography, including digital image systems. Laboratory experience involves problems related to camera and image output techniques.PHOT 11 — Advanced Professional Photography4 Units
PHIL 8 — Critical Thinking 3 Units 54 hours lecture. Degree Appropriate, CSU, UC The effective use of critical thinking in contemporary living, including recognizing faulty arguments, the usefulness of validity and truth, identifying and avoiding common fallacies in thinking.	aspirations of the peoples of the world. The following religions are presented and examined both appreciatively and critically: Hinduism, Buddhism, Taoism, Confucianism, Shinto Islam, Judaism, Christianity. An honors course designed to provide an enriched experience. Students may not receive credit for both PHIL 15 and PHIL 15H.	36 hours lecture. Degree Appropriate 36 hours lab. Prerequisite: PHOT 10 Advisory: ARTD 15A Exploration of current professional techniques. Includes studio and field assignments related to problems encountered in advanced photography. Topics include, but are not limited to, medium and large format cameras, studio product and portraiture, strobe and tungsten lighting, and computer basics for professional photographers. 3 Units 36 hours lecture. Degree Appropriate, CSU, UC 54 hours lab. Prerequisite: PHOT 10 Explores the use of continuous tone and alternative black-and-white techniques and processes. Emphasis will be on solving photographic problems through the use of current techniques such as montage printing, Polaroid and xerographic applications, hand coloring, and emulsion coating (cyanotype, Luminous/Liquid Light) as well as other special techniques.
PHIL 9 — Critical Thinking and Logical Writing3 Units54 hours lecture.Degree Appropriate, CSU, UCPrerequisite: ENGL 1AThe function and use of formal and informal logic, argument, critical	PHIL 20A — History of Western Philosophy 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Examines the major western philosophers and philosophical ideas from pre-Socratic times to the Renaissance. Degree Appropriate, CSU, UC	
evaluation, and language in written composition. PHIL 12 — Ethics 3 Units (CAN PHIL 4) Degree Appropriate, CSU, UC 54 hours lecture. Prerequisite: Eligibility for ENGL 1A A critical analysis of empirical and normative factors involved in choice, including an examination of major ethical theories and their application to the study of moral problems.	PHIL 20B — History of Western Philosophy 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Examines the major western philosophy and philosophical ideas from the Renaissance to the twentieth century. PHOTOGRAPHICS PHOTOGRAPHICS PHOTOGRAPHICS PHOT 1 — Laboratory Studies: Black-and-White Photography 1 Unit (May be taken three times for credit.) Non-Degree Credit (May be taken for Credit/No Credit only.) 54 hours lab. Corequisite: PHOT 10 (May have been taken previously) Extended black-and-white laboratory experiences to supplement those available in the regular program. Provides students the opportunity to pursue more advanced projects and experiments. Students who repeat this course will improve skills through further instruction and practice.	

PHOT 15 — History of Photography3 Units54 hours lecture.Degree Appropriate, CSU, UCSurvey of the history of photography from circa 1839 to the present. Anintroduction to concepts of photographic representation and theirimpact on society.PHOT 16 — Fashion Photography3 Units36 hours lecture.Degree Appropriate	PHOT 28 — Photography Portfolio Development 3 Units 36 hours lecture. Degree Appropriate 54 hours lab. Prerequisite: Minimum 12 units of photography at Mt. San Antonio College or equivalent preparation Development of a photography portfolio for job application or gallery exhibition purposes.	PE-L 4 — Adaptive Aquatics1 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)54 hours activity.Designed to assist students with a disability in developing swimmingskills as well as provide hydrotherapy. Students who repeat this coursewill improve skills through further instruction and practice.
54 hours lab. Prerequisite: PHOT 11 Illustrative, editorial and advertising fashion photography. Studio and location production in both black-and-white and color are emphasized. Aspects of business operation and working with clients are explored. PHOT 17 — Photocommunication 3 Units 36 hours lecture. Degree Appropriate	PHOT 30 — Commercial and Illustrative Photography3 UnitsFall SemesterDegree Appropriate36 hours lecture.54 hours lab.54 hours lab.Prerequisite: PHOT 11, PHOT 20Application of photographic principles to commercial and illustrative photography. Practical experience in studio product photography,	PE-L 10 — Wheelchair Sports 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Individual sports technique enhancement. Incorporate the use of a wheelchair in sports activities. Introduction to basic rules, skills, conditioning and strategies of the sport. Students who repeat this
72 hours lab. Prerequisite: PHOT 10 Explores the application of the photosensitive materials, photochemicals and optics. The emphasis will be on the aesthetic and expressive uses to which these materials lend themselves. The student is expected to supply his/her own adjustable camera.	illustration, fashion, and architectural photography. Areas of promotion and pricing will be covered. Both black-and-white and color media will be used. PHOT 99 — Special Projects in Photography (May be taken four times for credit.) 36 hours lecture. 2 Units	course will improve skills through further instruction and practice. PE-L 14 — Activity Programs for the Physically Limited 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Designed for challenge students who require special assistance or
PHOT 18 — Portraiture and Wedding Photography3 Units36 hours lecture.Degree Appropriate54 hours lab.Techniques and photographic procedures for taking informal, formal, environmental and group portraits. In-depth study and practice in professional wedding photography.	In order to offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students must have an instructor's authorization before enrolling in this course. Students repeating this course will make individual contracts of a more advanced nature with the instructor to insure that proficiencies are enhanced. PHYSICAL EDUCATION: ADAPTIVE PE-L 2 — Physical Fitness for the Physically Limited (May be taken foor option of letter grade or Credit/No Credit.) 54 hours activity. A modified muscular conditioning program using machines and free weights specifically designed to assist students with a physical challenge. Students who repeat this course will improve daily living skills through further instruction and practice. PE-L 2-2 — Physical Fitness for the Physically Limited (May be taken four times for credit.) PE-L 2-2 — Physical Fitness for the Physically Limited (May be taken four times for credit.) PE-L 2-2 — Physical Fitness for the Physically Limited (May be taken four times for credit.) PE-L 2-2 — Physical Fitness for the Physically Limited (May be taken four times for credit.) PE-L 2-2 — Physical Fitness for the Physically Limited (May be taken four times for credit.) PE-L 2-2 — Physical Fitness for the Physically Limited (May be taken four times for credit.) PE-L 2-2 — Physical Fitness for the Physically Limited (May be taken four times for credit.) PE-L 2-2 — Physical Fitness for the Physically Limited (May be taken four times for credit.) PE-L 2-2 — Physical Fitness for the Physically Limited (May be taken four times for credit.)	PE-L 14-2 — Activity Programs for the Physically Limited .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC
PHOT 20 — Color Photography3 Units36 hours lecture.Degree Appropriate54 hours lab.Prerequisite: PHOT 10An introduction to current methods of producing color media, color negatives, positive transparencies, and outputting color prints.		(May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Designed for challenge students who require special assistance or equipment to participate in leisure activities. Course content will vary each semester in order to meet current students' needs. Students who repeat this course will improve skills through further instruction and practice.
PHOT 21 — Exploring Color Photography3 Units36 hours lecture.Degree Appropriate54 hours lab.Prerequisite: PHOT 20Explores the application of color processes as they relate to commercialand artistic styles. Emphasis is on innovative use of color andcontemporary techniques. Includes media manipulation and uniqueprocessing, coloring negatives, 8x10 Polaroid, digital imagery, specializedlighting, set building, and quality control.rerequisite: Minimum 12 units of photography at Mt. San Antonio Collegeor equivalent preparationDevelopment of a photography portfolio for job application or galleryexhibition purposes.		PE-L 18 — Weight Training for the Physically Limited 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Designed to assist students with a physical limitation develop strength, flexibility and endurance through weight training. Students are introduced to basic skills and strategies of the health-related physical fitness. Students who repeat this course will improve skills through further instruction and practice.

PE-L 18-2 — Weight Training for the Physically Limited .5 Unit Degree Appropriate, CSU, UC (May be taken four times for credit.) (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Designed to assist students with a physical limitation develop strength, flexibility and endurance through weight training. Students are introduced to basic skills and strategies of the health-related physical fitness. Students who repeat this course will improve skills through	PE-A 8B — Swimming – Intermediate1 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)54 hours activity.Designed to improve competence in swimming ability for individualswho have had instruction in all of the basic strokes and can swim indeep water. Students who repeat this course will improve skills throughfurther instruction and practice.	PE-A 16 — Water Safety Instructor 2 Units (CAN KINE10) Degree Appropriate, CSU, UC (May be taken four times for credit.) (May be taken for option of letter grade or Credit/No Credit.) 108 hours activity. Prerequisite: 1) 17 years of age or older at the start of the course; 2) Demonstrate proficiency equivalent to Level VI of the American Red Cross Learn to Swim Program; 3) Demonstrate skills on a proficiency level
further instruction and practice. PHYSICAL EDUCATION: AQUATICS PE-A 4 — Lifeguard Training 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.)	PE-A 8B-2 — Swimming – Intermediate .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Designed to improve competence in swimming ability for individuals who have had instruction in all of the basic strokes and can swim in deep water. Students who repeat this course will improve skills through	level equal to the American Red Cross Emergency Water Safety course Analysis and performance of swimming skills related to safety; theory and application of methods of organizing and presenting aquatic materials. Satisfactory completion of the course may lead to the American Red Cross Water Safety Instructor's Certificate. Repeating this course will allow for renewal of certificate and improve skills through further instruction and practice.
 54 hours activity. Prerequisite: 15 years of age or older, demonstrate ability to swim 500 yards using crawl, breaststroke, elementary backstroke, and sidestroke; surface dive to 9 feet and bring a ten pound brick to surface; swim under water 15 yards; tread water for two minutes continuously, legs only Meets American Red Cross requirements for lifeguard training. To receive certification, students must pass the written and practical skills test 	further instruction and practice. PE-A 8C — Swimming – Advanced 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. <i>Prerequisite: Demonstrate proficiency equivalent to Red Cross Swimming Test</i> Designed to offer aquatic techniques of an advanced level and to refine	PE-A 18 — Springboard Diving1 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)54 hours activity.54 hours activity.Student must possess above-average diving ability or experience in tumbling or gymnastics. Individualized instruction in the fundamentals and techniques of springboard diving. Students who repeat this course will improve skills through further instruction and practice.
with an 80% or better. Students who meet all qualifications will receive the American Red Cross Lifeguard Training, CPR for the Professional Rescuer and First Aid Certificates. The objective for students who repeat this course is to recertify and improve rescue techniques through supervised practice and instruction. PE-A 8A — Swimming – Beginning (May be taken four times for credit.) Degree Appropriate, CSU, UC	the skill of the competent swimmer. Students who repeat this course will improve skills through further instruction and practice. PE-A 8C-2 — Swimming – Advanced .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity.	PE-A 18-2 — Springboard Diving.5 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)36 hours activity.Student must possess above-average diving ability or experience in tumbling or gymnastics. Individualized instruction in the fundamentals and techniques of springboard diving. Students who repeat this course
(May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Designed to teach basic swimming strokes and aquatic skills to individuals with little or no swimming ability. Students who repeat this course will improve skills through further instruction and practice.	 Prerequisite: Demonstrate proficiency equivalent to Red Cross Swimming Test Designed to offer aquatic techniques of an advanced level and to refine the skill of the competent swimmer. Students who repeat this course will improve skills through further instruction and practice. 	will improve skills through further instruction and practice. PE-A 20 — Aquatic Fitness 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit./No Credit.)
PE-A 8A-2 — Swimming – Beginning .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Designed to teach basic swimming strokes and aquatic skills to individuals with little or no swimming ability. Students who repeat this	PE-A 14 — Water Polo1 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)54 hours activity.Offers fundamental water polo skills including conditioning, drills, and game situations. Students who repeat this course will improve skills	54 hours activity. Student must be able to perform front crawl 50 yards. Designed to improve and maintain aquatic fitness. Emphasis on building strength, endurance and cardiovascular fitness. Students who repeat this course will improve skills through further instruction and practice. PE-A 20-2 — Aquatic Fitness
course will improve skills through further instruction and practice.	through further instruction and practice. PE-A 14-2 — Water Polo .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Offers fundamental water polo skills including conditioning, drills, and game situations. Students who repeat this course will improve skills through further instruction and practice.	 (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Student must be able to perform front crawl 50 yards. Designed to improve and maintain aquatic fitness. Emphasis on building strength, endurance and cardiovascular fitness. Students who repeat this course will improve skills through further instruction and practice.

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PE-A 21 — Aqua Aerobics 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. 54 hours activity. Designed to improve cardiovascular endurance, strength, agility, flexibility and general fitness through the mode of dynamic movement	PE-X 8A — Basketball – Men 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 90 hours activity. Intended for Men's Intercollegiate Basketball Team candidates to provide instruction in the components of training and conditioning related to	Designed for Women's Intercollegiate Cross Country team candidates and provides instruction in the components of training and conditioning related to the sport of cross country. Students who repeat this course will improve skills through further instruction and practice. PE-X 16 — Football – Men 2 Units
in the water. Appropriate for swimmers and nonswimmers. Students who repeat this course will improve skills through further instruction and practice.	the sport of basketball. Students who repeat this course will improve skills through further instruction and practice. PE-X 8B — Basketball – Men 1 Unit	(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 180 hours activity. Designed for Men's Intercollegiate Football team candidates and
PE-A 21-2 — Aqua Aerobics .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 26 hours attivity.	(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 90 hours activity.	provides instruction in the components of training and conditioning related to the sport of football. Students who repeat this course will improve skills through further instruction and practice.
36 hours activity. Designed to improve cardiovascular endurance, strength, agility, flexibility and general fitness through the mode of dynamic movement in the water. Appropriate for swimmers and nonswimmers. Students who repeat this course will improve skills through further instruction and practice.	Advisory: PE-X 8A Intended for Men's Intercollegiate Basketball Team candidates to provide instruction in the components of training and conditioning related to the sport of basketball. Students who repeat this course will improve skills through further instruction and practice.	PE-X 18 — Golf – Men 2 Units (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 180 hours activity. Designed for Men's Intercollegiate Golf Team candidates and provides instruction in the components and training related to the sport of golf.
PE-A 24 — Aquatic Off-Season Conditioning 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) Degree Appropriate, CSU, UC	PE-X 10A — Basketball – Women 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 90 hours activity.	Classes will be held off campus and require some traveling. Students who repeat this course will improve skills through further instruction and practice. Students must have their own golf clubs.
54 hours activity. A conditioning course for the serious swimmer to receive individualized training in order to improve competitive performance. Students who repeat this course will improve skills through further instruction and practice.	Intended for Women's Intercollegiate Basketball team candidates to provide instruction in the components of training and conditioning related to the sport of basketball. Students who repeat this course will improve skills through further instruction and practice.	PE-X 19 — Golf – Women 2 Units (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 180 hours activity. Designed for Women's Intercollegiate Golf Team candidates and provides 2000 (Control of Control of Contro
PE-A 24-2 — Aquatic Off-Season Conditioning .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity.	PE-X 10B — Basketball – Women1 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)90 hours activity.Advisory: PE-X 10A	instruction in the components and training related to the sport of golf. Classes will be held off campus and require some traveling. Students who repeat this course will improve skills through further instruction and practice. Students must have their own golf clubs.
A conditioning course for the serious swimmer to receive individualized training in order to improve competitive performance. Students who repeat this course will improve skills through further instruction and practice.	Intended for Women's Intercollegiate Basketball Team candidates to provide instruction in the components of training and conditioning related to the sport of basketball. Students who repeat this course will improve skills through further instruction and practice.	PE-X 24 — Soccer – Men 2 Units (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 180 hours activity.
PHYSICAL EDUCATION: ATHLETICS PE-X 6 — Baseball – Men 2 Units (May be taken four times for credit.) Degree Appropriate, CSU, UC	PE-X 11 — Cross Country – Men2 Units(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)180 hours activity.	Designed for Men's Intercollegiate Soccer Team candidates and provides instruction in the components of training and conditioning related to the sport of soccer. Students who repeat this course will improve skills through further instruction and practice.
(May be taken for option of letter grade or Credit/No Credit.) 180 hours activity. Enrollment is limited to team candidates and includes a minimum of 10 hours per week practice and intercollegiate competition. Students who repeat this course will improve skills through further instruction	Designed for Men's Intercollegiate Cross Country team candidates and provides instruction in the components of training and conditioning related to the sport of cross country. Students who repeat this course will improve skills through further instruction and practice.	PE-X 25 — Soccer – Women 2 Units (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 180 hours activity.
and practice.	PE-X 12 — Cross Country – Women 2 Units(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)180 hours activity.	Designed for Women's Intercollegiate Soccer Team candidates and provides instruction in the components of training and conditioning related to the sport of soccer. Students who repeat this course will improve skills through further instruction and practice.

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PE-X 26 — Softball – Women2 Units(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)180 hours activity.Designed for Women's Softball Team candidates and provides instructionin the components of training and conditioning related to the sport ofsoftball. Students who repeat this course will improve skills throughfurther instruction and practice.	PE-X 42 — Track and Field – Women2 Units(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)180 hours activity.Designed for students wishing to compete and/or train in intercollegiate track and field. Students will participate in a minimum of 10 hours per week at practice and intercollegiate competition. Students who repeat this course will improve skills through further instruction and practice.	Enrollment is for Men's Intercollegiate Wrestling Team candidates and provides instruction in the components and conditioning related to the sport of wrestling. Students who repeat this course will improve through further instruction and practice. PE-X 70 Pep Squad 2 Units (May be taken four times for credit.) Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 180 hours activity.
PE-X 28 — Swimming – Men2 Units(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)180 hours activity.	PE-X 44 — Volleyball – Men 2 Units (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 180 hours activity.	Provides training and experience for members of pep squads or rally units who are directly supportive of Mt. SAC activities. Students who repeat this course will improve skills through further instruction and practice.
Designed for Men's Intercollegiate Swim Team candidates and provides instruction in the components of training and conditioning related to the sport of swimming. Students who repeat this course will improve skills through further instruction and practice.	Enrollment is limited to team candidates and includes a minimum of 10 hours per week of practice and intercollegiate competition. Students who repeat this course will improve skills through further instruction and practice.	PE-X 99 — Off-Season Athletics 2 Units (May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 180 hours activity. 180 hours activity. Descret to the time of time of the time o
PE-X 30 — Swimming – Women 2 Units(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)180 hours activity.	PE-X 46 — Volleyball – Women2 Units(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)180 hours activity.	Off-season intercollegiate athletics. Designed for athletic team candidates and includes practice, conditioning and game play. Students who repeat this course will improve skills through further instruction and practice.
Designed for Women's Intercollegiate Swim Team candidates and provides instruction in the components of training and conditioning related to the sport of swimming. Students who repeat this course will improve skills through further instruction and practice.	Advisory: PE 75 Enrollment is limited to team candidates and includes a minimum of 10 hours per week of practice and intercollegiate competition. Students who repeat this course will improve skills through further instruction	PE-X 99-2 — Off-Season Athletics .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity.
PE-X 32 — Tennis – Men2 Units(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)180 hours activity.	and practice. PE-X 48 — Water Polo – Men 2 Units (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.)	Off-season intercollegiate athletics. Designed for athletic team candidates and includes practice, conditioning and game play. Students who repeat this course will improve skills through further instruction and practice.
Designed for Men's Intercollegiate Tennis Team candidates and provides instruction in the components and training related to the sport of tennis. Students who repeat this course will improve skills through further instruction and practice.	180 hours activity. Enrollment is limited to team candidates and includes a minimum of 10 hours per week of practice and intercollegiate competition. Students who repeat this course will improve skills through further instruction	PE-X 99-3 — Off-Season Athletics .75 Unit (May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity.
PE-X 34 — Tennis – Women2 Units(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)180 hours activity.	and practice. PE-X 49 — Water Polo – Women 2 Units (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.)	Off-season intercollegiate athletics. Designed for athletic team candidates and includes practice, conditioning and game play. Students who repeat this course will improve skills through further instruction and practice.
Designed for Women's Intercollegiate Tennis Team candidates and provides instruction in the components and training related to the sport of tennis. Students who repeat this course will improve skills through further instruction and practice.	180 hours activity. Enrollment is limited to team candidates and includes a minimum of 10 hours per week of practice and intercollegiate competition. Students who repeat this course will improve skills through further instruction	PE-X 99-4 — Off-Season Athletics 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 72 hours activity.
PE-X 38 — Track and Field – Men2 Units(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)180 hours activity.Designed for students wishing to compete and/or train in intercollegiatetrack and field. Students will participate in a minimum of 10 hours perweek at practice and intercollegiate competition. Students who repeatthis course will improve skills through further instruction and practice.	U, UC (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 180 hours activity. per eat	Off-season intercollegiate athletics. Designed for athletic team candidates and includes practice, conditioning and game play. Students who repeat this course will improve skills through further instruction and practice.

PE-X 99-6 — Off-Season Athletics1.5 Units(May be taken four times for credit.)Degree Appropriate, CSU(May be taken for option of letter grade or Credit/No Credit.)108 hours activity.108 hours activity.Off-season intercollegiate athletics. Designed for athletic team candidates and includes practice, conditioning and game play. Students who repeat this course will improve skills through further instruction and practice.	PE-F 4-2 — Cardiovascular Conditioning (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Designed to improve fitness levels through cardiovascular activities. Students who repeat this course will improve skills through further instruction and practice. PE-F 6A — Physical Fitness – Beginning 1 Unit	PE-F 6C-2 — Physical Fitness – Advanced .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Determines advanced components of physical fitness. Students integrate individual fitness level and participate in activities designed to improve overall fitness. Students who repeat this course will improve skills through further instruction and practice.
PHYSICAL EDUCATION: FITNESS PE-F 2A — Body Building – Beginning (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Basic fundamentals of strength development and physical conditioning. Students who repeat this course will improve skills through further	 (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Presents beginning components of physical fitness. Students identify individual fitness level and participate in activities designed to improve overall fitness. Students who repeat this course will improve skills through further instruction and practice. 	PE-F 9 — Conditioning for Sports 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. 54 conditioning course for athletes to develop fundamental skills and techniques for intercollegiate athletic competition. Students who repeat this course will improve skills through further instruction and practice.
instruction and practice. PE-F 2A-2 — Body Building – Beginning .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Basic fundamentals of strength development and physical conditioning. Students who repeat this course will improve skills through further instruction and practice.	PE-F 6A-2 — Physical Fitness – Beginning.5 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)36 hours activity.Presents beginning components of physical fitness. Students identifyindividual fitness level and participate in activities designed to improveoverall fitness. Students who repeat this course will improve skillsthrough further instruction and practice.	(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)36 hours activity.A conditioning course for athletes to develop fundamental skills andtechniques for intercollegiate athletic competition. Students who repeatthis course will improve skills through further instruction and practice. PE-F 10 — Weight Training1 Unit
PE-F 2B — Body Building – Advanced1 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)54 hours activity.Advanced fundamentals of strength development and physicalconditioning. Students who repeat this course will improve skillsthrough further instruction and practice.	PE-F 6B — Physical Fitness – Intermediate 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Develops components of physical fitness. Students analyze individual fitness level and participate in activities designed to improve overall fitness. Students who repeat this course will improve skills through	(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)54 hours activity.A muscular conditioning program using machines and free weights.Students who repeat this course will improve skills through furtherinstruction and practice. PE-F 10-2 — Weight Training .5 Unit
PE-F 2B-2 — Body Building – Advanced .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Advanced fundamentals of strength development and physical conditioning. Students who repeat this course will improve skills through further instruction and practice.	further instruction and practice. PE-F 6B-2 — Physical Fitness – Intermediate (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Develops components of physical fitness. Students analyze individual fitness level and participate in activities designed to improve overall fitness. Students who repeat this course will improve skills through	(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)36 hours activity.A muscular conditioning program using machines and free weights.Students who repeat this course will improve skills through furtherinstruction and practice. PE-F 12 — Fitness and Body Conditioning1 Unit
PE-F 4 — Cardiovascular Conditioning1 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)54 hours activity.Designed to improve fitness levels through cardiovascular activities.Students who repeat this course will improve skills through furtherinstruction and practice.	further instruction and practice. PE-F 6C — Physical Fitness – Advanced 1 Unit	(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Circuit training, aerobic activity and overview of health concepts. Emphasis on nutrition, weight management, stress reduction and the benefits of exercise on overall health. Students who repeat this course will improve skills through further instruction and practice.

PE-F 12-2 — Fitness and Body Conditioning.5 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)36 hours activity.Circuit training, aerobic activity and overview of health concepts.Emphasis on nutrition, weight management, stress reduction and thebenefits of exercise on overall health. Students who repeat this coursewill improve skills through further instruction and practice.	PE-F 19 — Strength Training2 Units(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)108 hours activity.108 hours activity.Designed for students concentrating on strength development through various types of exercise. Students who repeat this course will improve skills through further instruction and practice.PE-F 22 — Total Fitness – Beginning2 Units	PE-F 35 — Cardiorespiratory Training2 Units(May be taken four times for credit.)Degree Appropriate, CSU(May be taken for option of letter grade or Credit/No Credit.)108 hours activity.108 hours activity.Individualized exercise programs designed with increased durationand frequency to improve cardiorespiratory performance. Studentswho repeat this course will improve skills through further instructionand practice.
PE-F 13 — Exercise Dynamics2 Units(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)108 hours activity.108 hours activity.Increased frequency and duration of circuit training and aerobic activity; continued overview of health concepts; heightened emphasis on nutrition, weight management, stress reduction and the benefit of mension in the left of	(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 108 hours activity. Fitness training with increased frequency and duration. Includes nutrition, exercise concepts, stress management, cardiovascular conditioning, muscle strength and flexibility training. Students who repeat this course will improve skills through further instruction and practice.	PE-F 36 — Circuit Training1 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)54 hours activity.Muscular strength and endurance exercise on circuit trainingequipment. Students who repeat this course will improve skills throughfurther instruction and practice.
exercise on overall health. Students who repeat this course will improve skills through further instruction and practice. PE-F 17 — Fitness Walking 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. An overall wellness program through fitness walking, a low-impact	PE-F 30 — Baseline Fitness Assessment.25 Unit(May be taken four times for credit.)Degree Appropriate, CSU(May be taken for option of letter grade or Credit/No Credit.)18 hours activity.Baseline fitness assessment of body composition, strength, strengthendurance, cardiovascular endurance and flexibility. Includesinterpretation of assessment results and guidelines for a personal	PE-F 36-2 — Circuit Training.5 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)36 hours activity.Muscular strength and endurance exercise on circuit trainingequipment. Students who repeat this course will improve skills throughfurther instruction and practice.
aerobic activity. Consists of participation in walking courses around Mt. San Antonio College and the surrounding community. Also includes nutrition, personal skill development, weight management, cardiovascular endurance, stress management and goal setting. Students who repeat this course will improve skills through further instruction and practice. PE-F 17-2 — Fitness Walking .5 Unit	exercise program. Students who repeat this course will improve skills through further instruction and practice. PE-F 31 — Fitness Testing 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Personal fitness assessment of body composition, strength, strength	PE-F 37 — Circuit Training2 Units(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)108 hours activity.108 hours activity.Muscular strength and endurance exercise on circuit training equipmentwith increased frequency and duration. Students who repeat this coursewill improve skills through further instruction and practice.
 (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. An overall wellness program through fitness walking, a low-impact aerobic activity. Consists of participation in walking courses around Mt. San Antonio College and the surrounding community. Also includes nutrition, personal skill development, weight management, cardiovascular endurance, stress management and goal setting. Students 	endurance, cardiovascular endurance and flexibility. Includes nutrition, fitness components, stress management, interpretation of assessment results, and exercise guidelines. Students who repeat this course will improve skills through further instruction and practice. PE-F 34 — Cardiorespiratory Training 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.)	PE-F 38 — Aerobics 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Group aerobic exercise to improve cardiorespiratory efficiency. Students who repeat this course will improve skills through further instruction and practice.
who repeat this course will improve skills through further instruction and practice. PE-F 18 — Fitness Fundamentals (May be taken four times for credit.) Degree Appropriate, CSU, UC	54 hours activity. Individualized exercise programs designed to improve cardiorespiratory performance. Students who repeat this course will improve skills through further instruction and practice.	PE-F 38-2 — Aerobics .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity.
(May be taken for option of letter grade or Credit/No Credit.) 108 hours activity. Provides the foundations in specific areas of fitness to set-up, maintain and organize a personalized fitness program. Presents in-depth coverage of each area of fitness in managing and promoting an individualized fitness regime. Students who repeat this course will improve skills through further instruction and practice.	PE-F 34-2 — Cardiorespiratory Training.5 Unit(May be taken four times for credit.)Degree Appropriate, CSU(May be taken for option of letter grade or Credit/No Credit.)36 hours activity.Individualized exercise programs designed to improve cardiorespiratoryperformance. Students who repeat this course will improve skillsthrough further instruction and practice.	Group aerobic exercise to improve cardio respiratory efficiency. Students who repeat this course will improve skills through further instruction and practice.

PE-F 39 — Aerobics2 Units(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)108 hours activity.Group aerobic exercise to improve cardio respiratory efficiency. Students who repeat this course will improve skills through further instruction and practice.PE-F 50 — Physical Skills Preparation for Administration of Justice and Fire Technology2 Units of Justice and Fire Technology(May be taken four times for credit.)Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.)108 hours activity.Through supervised and individualized training programs, the student will develop the necessary conditioning levels to pass entrance examinations in Administration of Justice and Fire TechnologyPE-F 51 — Agility Testing Preparation for Administration of Justice and Fire Technology1 Unit of Justice and Fire Technology(May be taken four times for credit.)Degree Appropriate, CSU (May be taken four times for credit.)PE-F 51 — Agility Testing Preparation for Administration of Justice and Fire Technology1 Unit of Justice and Fire Technology(May be taken four times for credit.)Degree Appropriate, CSU (May be taken four times for credit.)Degree Appropriate, CSU (May be taken four times for credit.)A training program directed toward simulated physical agility testing approximating that required by various law enforcement and fire agencies. Students who repeat this course will improve skills through further instruction and practice.1 Unit	PE-F 59 — Firefighter Physical Ability Test.1 Unit(May be taken four times for credit.)Non-Degree Credit(May be taken for Credit/No Credit only.)2 hours lecture.2 hours activity.Administration of physical ability test examination. Includes nutrition, safety, body mechanics, exercise guidelines and execution of fire-related tasks. Successful completion of this course is required by various fire agencies for employment. Students must obtain test packet from website: Firepat.mtsac.edu prior to enrolling. Repeating this course will allow for renewal of certificate and improvement of technique through further instruction and practice.PHYSICAL EDUCATION: INDIVIDUALPHYSICAL EDUCATION: INDIVIDUALPE-11 — Rock Climbing1 Unit (May be taken four times for credit.)Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.)54 hours activity.Instruction in rock climbing. Includes preparation, equipment, techniques and strategies of rock climbing. Students who repeat this course will improve skills through further instruction and practice.PE-1 4A — Badminton – Beginning <td>(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)54 hours activity.Designed for the advanced badminton player. Includes advancedcompetition strategies and techniques. Students who repeat this coursewill receive advanced instruction to prepare for competitive situations.PE-1 4C-2 — Badminton – Advanced.5 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)36 hours activity.Designed for the advanced badminton player. Includes advancedcompetition strategies and techniques. Students who repeat this coursewill receive advanced instruction to prepare for competitive situations.PE-1 18A — Golf – Beginning1 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)54 hours activity.Basic fundamentals of golf. Emphasis on technique, strategy, and rules.Students who repeat this course will improve skills through furtherinstruction and practice.PE-1 18A-2 — Golf – Beginning.5 Unit(May be taken for option of letter grade or Credit/No Credit.)36 hours activity.Basic fundamentals of golf. Emphasis on technique, strategy, and rules.Students who repeat this course will improve skills through furtherinstruction and practice.PE-1 18A-2 — Golf – Beginning.5 Unit(May be taken for option of letter grade or Credit/No Credit.)<</td>	(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)54 hours activity.Designed for the advanced badminton player. Includes advancedcompetition strategies and techniques. Students who repeat this coursewill receive advanced instruction to prepare for competitive situations. PE-1 4C-2 — Badminton – Advanced .5 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)36 hours activity.Designed for the advanced badminton player. Includes advancedcompetition strategies and techniques. Students who repeat this coursewill receive advanced instruction to prepare for competitive situations. PE-1 18A — Golf – Beginning 1 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)54 hours activity.Basic fundamentals of golf. Emphasis on technique, strategy, and rules.Students who repeat this course will improve skills through furtherinstruction and practice. PE-1 18A-2 — Golf – Beginning .5 Unit(May be taken for option of letter grade or Credit/No Credit.)36 hours activity.Basic fundamentals of golf. Emphasis on technique, strategy, and rules.Students who repeat this course will improve skills through furtherinstruction and practice. PE-1 18A-2 — Golf – Beginning .5 Unit(May be taken for option of letter grade or Credit/No Credit.)<
of Justice, Fire Technology, and Forestry (May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 72 hours activity. A conditioning program to maintain strength, agility, cardiovascular fitness and flexibility necessary to perform the tasks required of personnel in fields of law enforcement, fire science and forestry. Students who repeat this course will improve skills through further instruction and practice.	PE-I 4A-2 — Badminton – Beginning.5 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)36 hours activity.Basic badminton fundamentals and technique. Includes care ofequipment; singles and doubles strategies. Students who repeat thiscourse will improve skills through further instruction and practice.	instruction and practice. PE-I 18B — Golf – Intermediate 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Instruction for the golfer with previous golf experience. Includes putting, game management, club selection, and principles of the swing.
 PE-F 53 — Physical Training for the Basic Fire Academy 2.5 Units (May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 68 hours activity. Prepare the Basic Fire Academy student for the physical demands of the fire service. Through a supervised individualized training program, the student will acquire cardiovascular endurance, flexibility and strength. Students who repeat this course will improve skills through further instruction and practice. 	PE-I 4B — Badminton – Intermediate 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Intermediate badminton fundamentals and techniques, including competitive strategies. Students who repeat this course will improve skills through further instruction and practice. 54 Init PE-1 4B-2 — Badminton – Intermediate .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Intermediate badminton fundamentals and techniques, including competitive strategies. Students who repeat this course will improve skills through further instruction and practice.	Students must have their own golf clubs. Classes will be held at sites both on and off the Mt. SAC campus. Students who repeat this course will improve skills through further instruction and practice. PE-I 18B-2 — Golf – Intermediate

PE-I 18C — Golf – Advanced 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. 10 Instruction for the experienced golfer with emphasis on golf swing analysis. Classes will be held at sites both on and off the Mt. SAC campus. Students must have their own golf clubs. Students who repeat this course will improve skills through further instruction and practice.	PE-I 31A-2 — Jujitsu – Beginning.5 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)36 hours activity.Fundamentals of Brazilian Jujitsu. Basic positions, breakfalls, trainingtechniques, strategy, finishing holds, competition, history andphilosophy. Students who repeat this course will improve skills throughfurther instruction and practice. Students are required to provide their	PE-I 35-2 — Karate .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Fundamentals of traditional karate. Includes form, technique, history and philosophy. Students who repeat this course will improve skills through further instruction and practice. PE-I 37A — Tai Chi Chuan – Beginning 1 Unit
PE-I 18C-2 — Golf – Advanced.5 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)36 hours activity.Instruction for the experienced golfer with emphasis on golf swing analysis. Classes will be held at sites both on and off the Mt. SAC campus. Students must have their own golf clubs. Students who repeat this course will improve skills through further instruction and practice.	own Judo/Jujitsu gi uniform. PE-I 33 — Kickboxing 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Presents the martial sport of kickboxing. Includes basic techniques for offense and defense, cardiovascular endurance, strategy and training modes. Students who repeat this course will improve skills through	(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Fundamentals of Tai Chi Chuan as a martial art exercise for health and fitness, meditation, relaxation and self defense. Basic therapeutic exercises in the Tai Chi Chuan format will be presented. Students who repeat this course will improve skills through further instruction and practice.
PE-1 28 — Racquetball1 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)54 hours activity.Racquetball fundamentals, skills and game play. Students who repeatthis course will improve skills through further instruction and practice.PE-1 29 — Self Defense/Martial Arts1 Unit	further instruction and practice. PE-I 33-2 — Kickboxing .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Presents the martial sport of kickboxing. Includes basic techniques for offense and defense, cardiovascular endurance, strategy and training modes. Students who repeat this course will improve skills through	PE-1 37A-2 — Tai Chi Chuan – Beginning .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Fundamentals of Tai Chi Chuan as a martial art exercise for health and fitness, meditation, relaxation, and self defense. Basic therapeutic exercises in the Tai Chi Chuan format will be presented. Students who repeat this course will improve skills through further instruction
 (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Basic concepts of self defense and martial arts. Covers technique in three ranges of combat: grappling, kick/punch, and weapons range. Students who repeat this course will improve skills through further instruction and practice. 	Indues. students who repeat this course with improve skins through further instruction and practice. PE-1 34 — Women's Self Defense (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Techniques for personal protection and safety with emphasis on defensive tactics for women. Students who repeat this course will	Teperations course with improve skins through further instruction and practice. PE-1 37B — Tai Chi Chuan – Intermediate 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Intermediate Tai Chi Chuan fundamentals and principles. Includes instruction in a traditional long form. Students who repeat this course
PE-I 29-2 — Self Defense/Martial Arts.5 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)36 hours activity.36 hours activity.Basic concepts of self defense and martial arts. Covers technique in three ranges of combat: grappling, kick/punch, and weapons range.Students who repeat this course will improve skills through further instruction and practice.	The result of	Will improve skills through further instruction and practice. PE-1 37B-2 — Tai Chi Chuan – Intermediate .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Intermediate Tai Chi Chuan fundamentals and principles. Includes instruction in a traditional long form. Students who repeat this course will improve skills through further instruction and practice.
PE-I 31A — Jujitsu – Beginning1 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)54 hours activity.54 hours activity.Fundamentals of Brazilian Jujitsu. Basic positions, breakfalls, training techniques, strategy, finishing holds, competition, history and philosophy. Students who repeat this course will improve skills through further instruction and practice. Students are required to provide their own Judo/Jujitsu gi uniform.	PE-I 35 — Karate 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Fundamentals of traditional karate. Includes form, technique, history and philosophy. Students who repeat this course will improve skills through further instruction and practice.	PE-I 37C — Tai Chi Chuan – Advanced1 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)54 hours activity.Instruction and practice for the experienced Tai Chi Chuan practitioner.Emphasis will be on the sword form. Students who repeat this coursewill improve skills through further instruction and practice.Students who repeat this course

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PE-I 37C-2 — Tai Chi Chuan – Advanced .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Instruction and practice for the experienced Tai Chi Chuan practitioner. Emphasis will be on the sword form. Students who repeat this course will improve skills through further instruction and practice.	PE-I 40C — Tennis – Advanced 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. 54 hours activity. Advanced tennis techniques and strategies for the experienced player. Students who repeat this course will improve skills through further instruction and practice.	Yoga instruction with major emphasis on practice of yoga asanas, proper breathing techniques and relaxation strategies. Students who repeat this course will improve skills through further instruction and practice. PE-I 50A-2 — Yoga .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken four times of credit.)
With improve skins through further instruction and practice. PE-I 38 — Skiing Skills 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Fundamentals of Alpine skiing, from the novice to the expert. Includes the purchase, care and use of equipment, conditioning methods,	PE-1 40C-2 — Tennis – Advanced .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Advanced tennis techniques and strategies for the experienced player. Students who repeat this course will improve skills through further	(May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. 36 hours activity. Yoga instruction with major emphasis on practice of yoga asanas, proper breathing techniques and relaxation strategies. Students who repeat this course will improve skills through further instruction and practice. PE-I 52 — Individual Sports 1 Unit
mountain procedures and safety. Ski trips mandatory and are at student expense. Students who repeat this course will improve skills through further instruction and practice. PE-I 40A — Tennis – Beginning (May be taken four times for credit.) (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity.	instruction and practice. PE-I 44 — Track and Field 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Basic instruction, conditioning and training for the various track and field events. Students who repeat this course will improve skills through	(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Individual sports technique enhancement. Includes cardiorespiratory, flexibility, muscle strength and endurance training modes. Students who repeat this course will improve skills through further instruction and practice.
Periodis activity. Beginning tennis fundamentals and techniques. Students who repeat this course will improve skills through further instruction and practice. PE-1 40A-2 — Tennis – Beginning .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Beginning tennis fundamentals and techniques. Students who repeat this course will improve skills through further instruction and practice.	Field events. Students who repeat this course will improve skills through further instruction and practice. PE-1 44-2 — Track and Field .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Basic instruction, conditioning and training for the various track and field events. Students who repeat this course will improve skills through further instruction and practice.	PE-I 52-2 — Individual Sports .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Individual sports technique enhancement. Includes cardiorespiratory, flexibility, muscle strength and endurance training modes. Students who repeat this course will improve skills through further instruction and practice.
PE-1 40B — Tennis – Intermediate 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Intermediate tennis techniques and strategies for the individual who has previous experience and instruction in tennis. Students who repeat this course will improve skills through further instruction and practice.		PHYSICAL EDUCATION: TEAM SPORTS PE-S 2 — Basketball 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Basic skills, fundamentals, rules and strategies for team play in basketball. Students who repeat this course will improve skills through
PE-1 40B-2 — Tennis – Intermediate.5 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)36 hours activity.Intermediate tennis techniques and strategies for the individual whohas previous experience and instruction in tennis. Students who repeatthis course will improve skills through further instruction and practice.	PE-1 48-2 — Wrestling.5 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)36 hours activity.Wrestling skills, fundamentals and match competition. Students whorepeat this course will improve skills through further instructionand practice.	further instruction and practice. PE-S 2-2 — Basketball .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Basketball skills, fundamentals and game play. Students who repeat this course will improve skills through further instruction and practice.
	PE-I 50A — Yoga1 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)54 hours activity.	

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PE-S 10 — Soccer1 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)54 hours activity.Soccer skills, fundamentals and game play. Students who repeat thiscourse will improve skills through further instruction and practice.	PE-S 16-2 — Softball .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Basic skills, rules and strategies for team play in softball. Students who repeat this course will improve skills through further instruction and practice.	PE-S 24B — Volleyball – Intermediate 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Designed for individuals with previous experience in techniques and strategies of volleyball. Students who repeat this course will improve skills through further instruction and practice. 10 unit
PE-S 10-2 — Soccer .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. 36 hours activity. Soccer skills, fundamentals and game play. Students who repeat this course will improve skills through further instruction and practice. PE-S 12 — Baseball 1 Unit	PE-S 18 — Indoor Soccer 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Indoor soccer skills, fundamentals and game play. Students who repeat this course will improve skills through further instruction and practice.	PE-S 24B-2 — Volleyball – Intermediate .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Designed for individuals with previous experience in techniques and strategies of volleyball. Students who repeat this course will improve
 (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Basic skills, rules and strategies for team play in baseball. Students who repeat this course will improve skills through further instruction and practice. 	PE-S 18-2 — Indoor Soccer.5 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)36 hours activity.Indoor soccer skills, fundamentals and game play. Students who repeatthis course will improve skills through further instruction and practice.	skills through further instruction and practice. PE-S 24C — Volleyball – Advanced 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Designed for individuals with previous experience in advanced techniques and strategies of volleyball. Students who repeat this course
PE-S 12-2 — Baseball.5 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)36 hours activity.Basic skills, rules and strategies for team play in baseball. Studentswho repeat this course will improve skills through further instructionand practice.	PE-S 19 — Team Sports 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Instruction in the skills, techniques, and strategies of game play in one or more team sports. Students who repeat this course will improve skills through further instruction and practice.	will improve skills through further instruction and practice. PE-S 24C-2 — Volleyball – Advanced .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Designed for individuals with previous experience in advanced
PE-S 13 — Football1 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)54 hours activity.Basic skills, rules and strategies for team play in football. Studentswho repeat this course will improve skills through further instructionand practice.	PE-S 19-2 — Team Sports.5 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)36 hours activity.Instruction in the skills, techniques, and strategies of game play in one or more team sports. Students who repeat this course will improve skills through further instruction and practice.	techniques and strategies of volleyball. Students who repeat this course will improve skills through further instruction and practice. PE-S 35 — Roller Hockey 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Fundamentals of roller hockey will be presented. Includes basic Fundamentals of roller hockey will be presented.
PE-S 13-2 — Football .5 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Basic skills, rules and strategies for team play in football. Students who repeat this course will improve skills through further instruction and practice	PE-S 24A — Volleyball – Beginning1 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)54 hours activity.Basic techniques and strategies of volleyball. Students who repeat thiscourse will improve skills through further instruction and practice.	technique, rules, strategy, and game play. Students who repeat this course will improve skills through further instruction and practice. PE-S 35-2 — Roller Hockey .5 Unit Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours activity. Fundamentals of roller hockey will be presented. Includes basic
and practice. PE-S 16 — Softball 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours activity. Basic skills, rules and strategies for team play in softball. Students who repeat this course will improve skills through further instruction and practice.	PE-S 24A-2 — Volleyball – Beginning.5 Unit(May be taken four times for credit.)Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)36 hours activity.Basic techniques and strategies of volleyball. Students who repeat thiscourse will improve skills through further instruction and practice.	technique, rules, strategy, and game play. Students who repeat this course will improve skills through further instruction and practice.

PHYSICAL EDUCATION: THEORY PE 3 — First Aid and CPR 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Advisory: Eligibility for ENGL 68 Provides training, including laboratory experience in caring for victims of injuries, sudden illness and other medical emergencies; includes Community CPR. Students who successfully pass all requirements, will earn the appropriate American Red Cross First Aid Certificate and/or CPR Certificate.	PE 19 — Introduction to Care/Prevention of Activity/ 3 Units Sports-Related Injuries 54 hours lecture. Degree Appropriate, CSU, UC Instruction, including laboratory experience, in the techniques and procedures for prevention and treatment of activity and sports-related injuries. Includes the responsibilities of the athletic trainer, policies and procedures of the athletic training room and the operation of rehabilitative modalities.	exercise, special needs considerations, professional responsibilities and liabilities, group exercise design, treadmill, cycling and varieties of cardiovascular exercise. PE 41 — Techniques of Teaching Weight Training 2 Units Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. Overview of the principles and techniques of teaching weight training. Includes muscle structure and function training compared for unside
PE 5 — Advanced First Aid/CPR/Emergency Response3 Units54 hours lecture.Degree Appropriate, CSUAdvisory: Eligibility for ENGL 68Provides training and certifications, including laboratory experience for developing the First Aid and CPR skills required by public safety personnel, athletic trainers, emergency response team members, flight attendants, coaches and nurses. Students who successfully pass all requirements will receive an American Red Cross Certificate in	PE 24 — Kinesiology 2 Units Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. The study of movement as it relates to exercise and the interrelationships of body segments involved in human movement activity, actions of joints, nerves and muscle exercise. PE 33 — Fitness Assessment and Healthy Lifestyles .5 Unit	Includes muscle structure and function, training sequences, free weight and machine equipment, safety factors, including contraindications for exercise. PE 44 — Theory of Coaching 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Designated for coaches at varying levels from youth league to high school varsity. Focuses on coaching issues and problems facing the coach today and includes the philosophy, theory, and principles of developing and maintaining an athletic program.
Emergency Response and/or CPR for the Professional Rescuer. PE 10 — Fundamentals of Sports 2 Units 36 hours lecture. Degree Appropriate, CSU, UC Instruction in the theory and technique of various selected sports: Basketball, Baseball, Cross Country, Football, Golf, Soccer, Softball, Swimming, Tennis, Track & Field, Volleyball, Water Polo and/or Wrestling. Bunits PE 13 — Sports Officiating 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Intraduction to rules, resultions and career emerchanistics of urieur. Summer propriate, CSU, UC	(May be taken four times for credit.) Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 9 hours lecture. An integrated approach to healthy lifestyles. Includes pre- and post- fitness assessments, basic nutrition analysis, lifestyle behaviors and stress management. Interpretation of results includes goal-setting principles and development of basic exercise program. Students who repeat this course will improve skills through further instruction and practice.	PE 48 — Lifeguard Training 3 Units Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. Prerequisite: Ability to swim 500 yards without stopping American Red Cross requirements for Lifeguard Training. To receive certification, students must pass written exams with a minimum of 80% and pass all practical skills tests. Students who meet all
Introduction to rules, regulations and career opportunities of various team and individual sports. PE 15 — Administration of Fitness Programs 2 Units Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. Provides leadership training and administrative skills related to fitness specialists, personal trainers and physical educators. Students will explore curriculum topics and practical skills related to careers in fitness and physical education.	PE 34 — Fitness for Living3 Units54 hours lecture.Degree Appropriate, CSU, UCSurvey and analysis of the components of fitness. Effects of fitness on optimal health, concepts of human movement, fitness program design, stress management, nutrition and weight control.PE 38 — Physiology of Exercise for Fitness3 Units54 hours lecture.Degree AppropriateTheory of basic physiological concepts as they pertain to exercise training and the prescription of individual fitness programs.	qualifications will be certified by the American Red Cross in Lifeguard Training, First Aid and CPR for the Professional Rescuer. PE 50 — Mt. Sac Fire Academy Physical Ability .5 Unit Intrance Exam .5 Unit (May be taken four times for credit.) Non-Degree Credit (May be taken for Credit/No Credit only.) 9 hours lecture. 9 hours activity. Physical ability examination specifically designed for candidates seeking admission into the Mt. SAC Fire Academy. Candidates must be approved
PE 17 — Introduction to Physical Education 3 Units Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. Introduction and orientation to physical education as a profession and academic discipline. Explores sub-disciplines, opportunities in the field, philosophy, scientific basis and analysis.	PE 39 — Techniques of Fitness Testing 2 Units Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. Theory and technique of performing fitness testing, assessment, evaluation, and recommendation. Includes related laboratory experience and practical applications. PE 40 — Techniques of Teaching Cardiovascular Exercise 2 Units Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. Overview of the principles and techniques of teaching cardiovascular exercise. Includes both theory and practical instruction of cardiovascular	by the Fire Technology Office prior to registration. Students who repeat this course will improve skills through further instruction and practice. PE 81 — Work Experience for Coaching 2 Units (May be taken four times for credit.) Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 150 hours lab. Provides coaches and physical education students with on-the-job experience in approved worksites related to classroom instruction. A minimum of 5 hours per week of supervised work (minimum 75 paid or 60 non-paid clock hours per semester) is required for each unit of credit. Work experience placement is not guaranteed, but assistance is provided by the Coaching Certificate faculty advisor. Students who repeat this course will improve skills through further instruction and practice.

PE 85 — Fitness Specialist Internship 1 Unit (May be taken four times for credit.) Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.)	PHYSICAL THERAPY PHTH 81 — Physical Therapy Aide 4 Units 54 hours lecture. Degree Appropriate	<i>Prerequisite: High school trigonometry (C or better) or MATH 150</i> The basic principles of physics. Includes theory, applications, laboratory, and problem solving in mechanics, heat, fluids, and wave motion.
75 hours lab. Provides fitness specialist students with actual on-the-job skill development in fitness testing, analysis and prescription. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Work experience placement is not guaranteed, but assistance is provided by the Fitness Certificate faculty advisor. Students who repeat this course will improve skills through further instruction and practice. PE 92 — Work Experience – Athletic Training 2 Units	54 hours lab. Advisory: ANAT 50 or equivalent Role and skills of physical therapy aide. Procedures commonly performed by aides will be explained, demonstrated and practiced; includes terminology and interpersonal skills. PHYSICIAN ASSISTANT PREPARATORY PAP 101 — Fundamentals for Physician Assistant 8 Units Preparatory Program Non-Degree Credit.)	PHYS 2BG — General Physics 4 Units Spring Semester Degree Appropriate, CSU, UC (CAN PHYS 4) DHYS 2AG + 2BG = CAN PHYS SEQ A 54 hours lecture. 54 hours lecture. 54 hours lab. Prerequisite: PHYS 2AG or equivalent A continuation of Physics 2AG. Includes electricity and magnetism (including DC and AC circuits) geometrical and physical optics, relativity, quantum physics, atomic and nuclear physics. Laboratory includes use of
 (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.) 160 hours lab. Provides Athletic Trainer Aides and physical education students with actual on-the-job experience in an approved worksite related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Work experience placement is not guaranteed, but assistance is provided by the Athletic Trainer faculty and staff. Students who repeat this course will improve skills through further instruction and practice. 	144 hours lecture.Advisory: PAP 102 taken concurrentlyPrepares students for entrance into Physician Assistant programs.Provides an overview of physician assistant fundamentals, ethics,financial aid, and interviewing techniques. Overviews physician assistantcurriculum in family practice, pediatrics, orthopedics and various othertopics presented in physician assistant programs. Analyzes stress copingmechanisms and time management for physician assistant students.PAP 102 — Service Learning/Seminar for PhysicianAssistant Preparatory Program(May be taken four times for credit.)Degree Appropriate, CSU(May be taken for Credit/No Credit only.)	computers to analyze data and simulate electric circuits.PHYS 4A — Engineering Physics5 Units(CAN PHYS 8)Degree Appropriate, CSU, UCPHYS 4A+4B+4C = CAN PHYS SEQ B72 hours lecture.54 hours lab.Prerequisite: PHYS 2AG or one year of high school physics (C or better)Corequisite: MATH 181 (May have been taken previously)Studies linear and rotational motion, forces, work, energy, oscillations,gravitation, properties of solids, and waves. Includes laboratoryexperience, with significant use of computers for data acquisitionand analysis.
PHYSICAL SCIENCE PHSC 3 — Energy Science 4 Units 54 hours lecture. Degree Appropriate, CSU 54 hours lab. Advisory: Eligibility for MATH 51, eligibility for ENGL 1A Physical principles underlying the various forms of energy production. Examines feasibility, consequences, cost, and benefits of both traditional and alternative sources of energy. Field trips required. PHSC 7 — Physical Science 3 Units 54 hours lecture. Degree Appropriate, CSU, UC	36 hours lecture. 216 hours lab. Advisory: PAP 101 taken concurrently Prepares students for entrance into programs for the career of Physician Assistant. Examines and profiles community health care needs. Explores and directly allows students to interface with various patient populations. Requires weekend and overnight labs to various areas in California. Out-of-class projects required. Students who repeat this course will improve skills through further instruction and practice. PHYSICS	PHYS 4B — Engineering Physics 5 Units (CAN PHYS12) Degree Appropriate, CSU, UC PHYS 4A+4B+4C = CAN PHYS SEQ B Degree Appropriate, CSU, UC 72 hours lecture. Degree Appropriate, CSU, UC 54 hours lab. Prerequisite: PHYS 4A Corequisite: MATH 280 (May have been taken previously) Heat, kinetic theory of gases, thermodynamics, electromagnetism (including DC and AC circuits,) and Maxwell's equations. Laboratory includes significant use of computers for data acquisition, analysis and simulation.
Designed for the non-science major. A primarily non-mathematical, conceptual approach to basic principles of physics and chemistry and their practical applications. Critical thinking is stressed in such topics as motion, head magnetism, sound and light, radioactivity, atomic theory and modern physics. May be taken with Physical Sciences Laboratory for those students needing a laboratory science course. PHSC 7L — Physical Science Laboratory 54 hours lab. <i>Corequisite: PHSC 7</i> Laboratory topics will parallel the course content of Physical Science lecture.	PHYS 1 — Physics4 Units54 hours lecture.Degree Appropriate, CSU, UC54 hours lab.Prerequisite: MATH 51 or MATH 51B or equivalent high school coursesDiscovery of basic concepts of physics by working through guided activities in a workshop style. Topics include light and geometrical optics, electricity and DC circuits (with capacitors), linear and rotational motion, forces, momentum, energy, harmonic motion and waves.PHYS 2AG — General Physics4 Units (CAN PHYS 2)PHYS 2AG = CAN PHYS SEQ A 54 hours lecture.54 hours lecture. 54 hours lab.	PHYS 4C — Engineering Physics 5 Units (CAN PHYS14) Degree Appropriate, CSU, UC PHYS 4A+4B+4C = CAN PHYS SEQ B 72 hours lecture. 54 hours lab. Prerequisite: PHYS 4B Fluids, sound, electromagnetic waves, optics, diffraction and interference of waves, relativity, quantum physics, atomic and nuclear structure, nuclear reactions and elementary particles. Laboratory includes significant use of computers for data analysis.

Section 10 195

PHYS 99 — Special Projects in Physics 2 Units (May be taken four times for credit.) Degree Appropriate, CSU 36 hours lecture. Corequisite: PHYS 1 or PHYS 2AG or PHYS 4A (May have been taken previously) In order to offer selected students recognition for their academic interests and ability, and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Student must have instructor's authorization before enrolling in this class. Students who repeat this course will make with the instructor individual contracts of a more advanced nature to ensure	POL1 9 — Introduction to International Relations 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Advisory: Eligibility for ENGL 1A Acquaints students with the historical and political background of international relations. Attention is given to world politics, international organization and America's place in world affairs. POL1 25 — Politics of the Mexican American 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Advisory: Eligibility for ENGL 68 Studies the impact that national, state and local governments have on the nation's largest ethnic minority (the Latino community). Examines the national and state constitutions and the impact they have had on the Hispanic community as a whole (not just Mexican Americans).	PSYC 1AH — Introduction to Psychology – Honors 3 Units (CAN PSY 2) Degree Appropriate, CSU, UC 54 hours lecture. Prerequisite: Acceptance into the Honors Program Develops an understanding of the basic principles underlying behavior and cognition. The subject matter and methods of scientific psychology are presented. Topics include scientific methodology, history, biopsychology, sensation, perception, states of consciousness, learning, memory, forgetting, language, cognition, intelligence, life-span development, personality, stress, health, motivation, emotions, psychopathology, psychotherapeutic approaches, and social factors. An honors course designed to provide an enriched experience. Students may not receive credit for both PSYC 1A and PSYC 1AH.
that profiencies are enhanced.	Studies American institutions as they pertain to the Chicano community and examines the Chicano community's responses to the actions of the dominant political institutions. POL1 30 — California State and Local Government 3 Units 54 hours lecture. Degree Appropriate, CSU Advisory: Eligibility for ENGL 68 Surveys the forces shaping California government and analyzes the operation of governmental institutions within California and the political and fiscal challenges facing California.	PSYC 1B — Biological Psychology3 Units(CAN PSY 10)Degree Appropriate, CSU, UC54 hours lecture.Prerequisite: PSYC 1A or PSYC 1AHAdvisory: Eligibility for ENGL 1ABiological mechanisms of behavior; introduction of evolution and genetics with emphasis on neuronal and synaptic transmission.Develops a conceptual framework and awareness of the scientific method. Stresses specific methods of investigation for the discipline.
the California Administrative Code. POLI 1H — Political Science – Honors 3 Units (CAN GOVT 2) Degree Appropriate, CSU, UC 54 hours lecture. Prerequisite: Acceptance into the Honors Program Principles and problems of government with particular emphasis on national government in the United States. This course satisfies the requirement for a course in the Constitution of the United States and the principles of State and local government as required by Title 5 of the California Administrative Code. An honors course designed to provide an enriched experience. Students may not receive credit for both POLI 1 and POLI 1H.		PSYC 3 — Introduction to Research Methods in Psychology 4 Units (CAN PSY 8) Degree Appropriate, CSU, UC 54 hours lecture. 54 54 hours lab. Prerequisite: PSYC 1A or PSYC 1AH and PSYC 10 or MATH 110 or MATH 110H Advisory: ENGL 1A Research methods in the area of social science, especially in the discipline of psychology. American Psychological Association publication style taught and used with lab experience. Includes systematic observation, survey development, correlational studies, and design, execution and analysis of experiments.
POLI 2 — Political Science3 Units54 hours lecture.Degree Appropriate, CSU, UCPrerequisite: POLI 1 or POLI 1HAdvisory: Eligibility for ENGL 1AComparative study of constitutional principles, governmentalinstitutions, political processes, and ideologies in selected countries.	54 hours lecture. <i>Prerequisite: Eligibility for ENGL 68</i> Develops an understanding of the basic principles of behavior and mental processes. The subject matter and research methods of scientific psychology are presented. Topics include; history, biopsychology, sensation, perception, states of consciousness, learning, memory, forgetting, language, cognition, life-span development, gender, sexuality,	PSYC 5 — Psychology of Reasoning and Problem Solving 3 Units 54 hours lecture. Degree Appropriate, CSU, UC The nature of critical thinking; models and strategies; common fallacies of reasoning; self-regulation in the thinking process; application of critical thinking to specific areas, such as comparison of cognitive and information-processing models; more specifically, memory, thinking and problem solving, creativity, learning and forgetting, decision making
POLI 5 — Political Science Theory3 Units54 hours lecture.Degree Appropriate, CSU, UCPrerequisite: POLI 1 or POLI 1HAdvisory: Eligibility for ENGL 1AEmphasizes political science concepts and theories, institutions, politicalchange, and dynamics. Designed to prepare students majoring inpolitical science for further study in the discipline by adequatebackground preparation in the overall study of politics.	stress, health, motivation, emotions, social psychology, abnormality,	and reasoning.

PSYC 10 — Statistics for the Behavioral Sciences 4 Units (CAN PSY 6) Degree Appropriate, CSU, UC 54 hours lecture. 54 hours lab. Prerequisite: PSYC 1A or SOC 1 and eligibility for MATH 110 Statistical principles of the behavioral sciences emphasizes research design, scales of measurement, distributions, graphing, descriptive statistics, measures of central tendency, measures of variability, z-test, independent and dependent t-tests, inferential statistics, confidence intervals, linear correlations and regression, and analysis of variance, including multivariate factorial designs and chi square analyses. Statistical analyses through the use of computerized statistical packages	PSYC 33 — Psychology for Effective Living 3 Units 54 hours lecture. Degree Appropriate, CSU Emphasis on comprehension and application of psychological principles to interpersonal relationships, personal growth, sexuality, vocation, marriage, parenting, aging, and other circumstances encountered in the life cycle. Considers personality development and psychological disorders as well as therapeutic approaches. PSYC 40 — Introduction to Interviewing and Counseling 3 Units 54 hours lecture. Degree Appropriate Provides a basic overview of the helping processes. Stresses application of counseling theories, helping skills, and consultation theories to allow	of voice and diction as they pertain to broadcasting and learn to evaluate the effectiveness of voice work done by others. Emphasis will also be placed on developing the content of on-air shows. Students will review the basics of the production studio and its components. R-TV 02A — On-Air Personality Development-Spanish Market 3 Units 54 hours lecture. Non-Degree Credit <i>Corequisite: R-TV 01 and R-TV 11A (May have been taken previously)</i> Covers developing a broadcast voice, style and understanding of the business for all areas of Spanish-language broadcasting, including disc jockey, newscaster and voice-over artist. Students will also develop an understanding of the workings of voice and diction as they pertain to
are interpreted through lab experience. PSYC 14 — Developmental Psychology 54 hours lecture. Advisory: Eligibility for ENGL 68	exploration of self as a helper and learn facilitating skills to bring about change. Emphasis on establishing rapport, obtaining information and developing a supportive relationship in a variety of mental health settings. Students may not receive credit for both PSYC 40 and MENT 40.	broadcasting and learn to evaluate the effectiveness of voice work done by others. Emphasis will also be placed on developing the content of on-air shows suitable to the Spanish-language market. Students will review the basics of the production studio and its components. The course is taught in English.
Examines the psychological principles of human development across the lifespan, from birth to death. This course does not fulfill the Title 22 requirements for Child Development majors. PSYC 17 — Introduction to Human Services 3 Units	PSYC 50 — Psychology of Human Relations 3 Units 54 hours lecture. Degree Appropriate Prerequisite: Eligibility for ENGL 68 Develops students' understanding of themselves and their social relationships. Emphasizes self-evaluation, experience in small groups,	R-TV 03 — Sportscasting and Reporting 1.5 Units (May be taken two times for credit.) Degree Appropriate 27 hours lecture. Corequisite: R-TV 01 and R-TV 11A (May have been taken previously)
54 hours lecture. Degree Appropriate, CSU, UC Advisory: PSYC 1A or PSYC 1AH or SOC 1 or SOC 1H History, philosophy and development of human services in America. Explores careers in human services, self-exploration in matching personal and professional interests to entry levels of human services employment.	becoming sensitive to one's own feelings and to the feelings of others and the contributions of the behavioral sciences as resources for effective living. PSYC 99 — Special Projects in Psychology (May be taken four times for credit.) Degree Appropriate, CSU 36 hours lecture.	Covers in-studio sportscasting, interviewing, field reporting and play- by-play for radio and television. Students will learn the legalities and ethics of covering sports, and how to work with professional sports teams and equipment technicians. Practical experience will be provided through coverage of Mt. SAC's athletic teams. Students who repeat this course will improve skills through further instruction and practice.
PSYC 19 — Abnormal Psychology 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Prerequisite: PSYC 1A or PSYC 1AH Application of principles of general psychology to the field of psychopathology. Major classifications of psychiatric disorders, their causes and treatment modalities. Includes theoretical perspectives used in abnormal psychology.	To offer selected students recognition for their academic interest and ability and the opportunity to explore their disciplines to greater depth, the various departments offer Special Project courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced.	R-TV 04 — Broadcast News Field Reporting (May be taken two times for credit.) 3 Units 54 hours lecture. Degree Appropriate 54 rours lecture. Students events Corequisite: R-TV 01, R-TV 05, and R-TV 11A (May have been taken previously) Students will learn how to research and cover various news events including working with police and other emergency personnel, inter- viewing techniques and story developments. Emphasis will be placed on
PSYC 25 — The Psychology of Women3 Units54 hours lecture.Degree Appropriate, CSU, UCA bio-cultural analysis of women. Emphasis will be placed on biological, psychological and sociological data related to principles of development, socialization, learning, motivation, emotion and perception.	RADIO & TELEVISION R-TV 01 — Introduction to Broadcasting 3 Units 54 hours lecture. Degree Appropriate, CSU Prerequisite: Eligibility for ENGL 68 Survey of the film and a last read is industrian an antipination.	legal and ethical issues concerning news coverage. Students who repeat this course will improve skills through further instruction and practice. R-TV 05 — Radio-TV Newswriting (May be taken two times for credit.)3 Units Degree Appropriate 54 hours lecture.
PSYC 26 — Psychology of Sexuality 54 hours lecture. Degree Appropriate, CSU, UC <i>Prerequisite: Eligibility for ENGL 68</i> Explores the factors involved in establishing and maintaining intimate sexual relationships. The focus of the course is on the findings of social psychologists concerning sexuality and love relationships in our culture.	Survey course of the film and electronic media industries, concentrating on the United States. This includes cultural, historical, social, legal and economic issues in motion pictures, radio and television broadcasting, cable, satellite, Internet and related technologies. R-TV 02 — On-Air Personality Development 3 Units 54 hours lecture. Degree Appropriate, CSU <i>Corequisite: R-TV 01 and R-TV 11A (May have been taken previously)</i> Developing a broadcast voice, style and understanding of the business for all areas of the industry, including disc jockey, newscaster and voice-over artist. Students will also develop an understanding of the workings	<i>Corequisite: R-TV 01 (May have been taken previously)</i> Writing, editing and reporting radio and TV news, utilizing the Associated Press Wire Service, AP Newsboss software. Students will rewrite news wire copy, as well as create stories from interviews and from covering news events, including the incorporation and selection of sound bites from actualities. Emphasis will be on factual and concise content and the ability to work under deadline.

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54 hours lecture. Degree Appropriate. 3 und 64/biory: F.YV 01 Covers the development of voices for radio and television Degree Appropriate. (May be taken for option of letter grade or Credit./No Credit.) Degree Appropriate. (May be taken for option of letter grade or Credit./No Credit.) Shours lecture. Shours lecture. Shours lecture. Shours lecture. Shours lecture. Degree Appropriate. (May be taken two times for credit.) Degree Appropriate. Shours lecture. Shours lecture. Shours lecture. Shours lecture. Degree Appropriate. Notice lecture. Notice lecture. Shours lecture. Degree Appropriate. Notice lecture. Shours lecture. Shours lecture. Shours lecture. Degree Appropriate. Notice lecture. Shours lecture. Degree Appropriate. Notice lecture. Shours lecture. Shours lecture. Degree Appropriate. Notice lecture. Notice lecture. Shours lecture. Shour	27 hours lecture. Degree Appropriate <i>Corequisite: R-TV 01 (May have been taken previously)</i> The history and development of the techniques involved in radio and television traffic reporting through lecture and hands-on practice. Students will learn how to interpret and read police codes as they relate to traffic, accidents, and emergency situations and understand both broadcast rules and liabilities as they apply to traffic reporting. Emphasis on both the production and the delivery of reports. Students will work at the college radio station one hour per week delivering traffic reports during news broadcasts.	36 hours lecture. Degree Appropriate, CSU 54 hours lab. Corequisite: R-TV 01 (May have been taken previously) Operation of standard radio production equipment for both tape-based and digital production utilizing ProTools technology. Production skills concentrate on the use of voice, music and sound effects applied to a variety of elements including commercials and newscasts. R-TV 11B — Advanced Radio Production 3 Units 54 hours lecture. Degree Appropriate, CSU Prerequisite: R-TV 11A Degree Appropriate, CSU	54 hours lecture. Degree Appropriate Corequisite: R-TV 01 and R-TV 11A (May have been taken previously) Covers all aspects of Internet broadcasting and podcasting including programming, announcing, promotions, and legal and copyright issues through the use of an actual Internet radio station. R-TV 18 — Writing for Television/Film 3 Units 54 hours lecture. Degree Appropriate, CSU Advisory: R-TV 01 Characterization, visualization, structure and form in various types of
(May be taken two times for credit.) Degree Appropriate, CSU (May be taken two times for credit.) Degree Appropriate, CSU (May be taken two times for credit.) Degree Appropriate, CSU (Are providence of the creation and genographic research to target specific audiences, truth Includes using demographic research to target specific audiences, truth (Are providence of the creation and television industry as a business for profit. Basic techniques are discussed and examined in negotiating with station including the creation including FCC requirements, demographic targeting, marketing techniques, and working with agencies. The course also covers promotions, including the creation of contests and promotional campaigns. Brt 19 — Broadcast Career Preparation 6 Sunta Career Preparation 6 Sunta Career Preparation 6 Sunta Career Structure. R TV 10 — Radio Management and Programming 5 Units 54 hours lecture. Degree Appropriate CC Nore secture. R TV 10 — Radio Management and Programming 3 Units 54 hours lecture. Degree Appropriate CC Nore secture. R TV 10 — Radio Management and Programming 54 hourus lecture. Sunta due drivence	54 hours lecture. Degree Appropriate <i>Advisory: R-TV 01</i> Covers the development of voices for radio and television commercials,narrations, and animation. Students also learn how to effectively audition, work with agents and agencies, and understand	recording,editing, and mixing as learned in R-TV 11A. Develop an understanding of the core concepts and skills required to work in a professional recording studio environment using Pro Tools, the industry standard for state-of-the-art digital work stations. R-TV 12 — Commercial Copywriting 3 Units	Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 54 hours lab.
this course will improve skills through further instruction and practice.R-TV 09 — Broadcast Sales and Promotion3 Units station maagement and agents as well as dealing with contracts, residuals, re-use rights, mergers, protection of intellectual properties, union representation and FCC law. Professional ethics and broadcaster.R-TV 01 (May have been taken previously)Corequisite: R-TV 01 (May have been taken previously)Degree Appropriate strategies, and working with agencies. The course also covers promotions, including the creation of contests and promotional campaigns.R-TV 10 — Radio Management and Programming S4 hours lecture.B TV 16 — Broadcast Career Preparation S4 hours lecture.S Units S4 hours lecture.R-TV 10 — Radio Management and Programming S4 hours lecture.S Units (May be taken two times for credit.)Degree Appropriate S4 hours lecture.R-TV 10 — Radio Management and sports. Students with services and resurces of programming sa hours lecture.S Units S4 hours lecture.R-TV 10 — Radio Management and sports. Students with services and resurces of programming sa drésurés in order to obtain and maintain an entry-level job in the broadcast industry. Emphasis will be placed on employment searches, interview techniques, involvement in professional also look at the role of management at a station including budgeting, also look at the role of management at a station including budgeting, also look at the role of management at a station including budgeting,Students the cole of management at a station including budgeting, in the broadcast industry. Emphasis will be placed on employment searches, interview techniques, involvement in professionalR-TV 10 — Remote T	 (May be taken two times for credit.) Degree Appropriate, CSU (May be taken for Credit/No Credit only.) 36 hours lecture. <i>Corequisite: R-TV 01 (May have been taken previously)</i> A training course for positions at Mt. SAC's on-campus radio station, KSAK. Includes programming, production procedures, news, DJ and promotions, and FCC rules and regulations. Recommended for students wanting to become a part of KSAK and also offers an excellent overview 	Advisory: R-TV 01Covers the creation and production of radio and television commercials.Includes using demographic research to target specific audiences, truthin advertising, slogan and campaign development, character creation,commercial formats, and the use of visual and audio appeals. R-TV 15 — Broadcast Business Practices 3 Units54 hours lecture.Degree AppropriateCorequisite: R-TV 01 (May have been taken previously)A basic overview of the radio and television industry as a business for	techniques. R-TV 19B — Advanced Television Production Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 54 hours lab. <i>Prerequisite: R-TV 19A</i> Advanced video production techniques emphasizing film-style
single camera techniques. Topics include video engineering, directing, will improve skills through first struction and practice	this course will improve skills through further instruction and practice. R-TV 09 — Broadcast Sales and Promotion3 Units 54 hours lecture.Degree Appropriate <i>Corequisite: R-TV 01 (May have been taken previously)</i> Covers the strategies and legalities of advertising time sales for radio and television including FCC requirements, demographic targeting, marketing strategies, and working with agencies. The course also covers promotions, including the creation of contests and promotional campaigns. R-TV 10 — Radio Management and Programming 54 hours lecture. 3 Units Degree Appropriate <i>Corequisite: R-TV 01 (May have been taken previously)</i> An overview of the various techniques of programming a radio station, including various formats of music, news, talk and sports. Students will	station management and agents as well as dealing with contracts, residuals, re-use rights, mergers, protection of intellectual properties, union representation and FCC law. Professional ethics and broadcasters' responsibilities to their audiences are also discussed. R-TV 16 — Broadcast Career Preparation 3 Units(May be taken two times for credit.)Degree Appropriate 54 hours lecture. <i>Prerequisite: R-TV 11A or R-TV 19A Corequisite: R-TV 97A and R-TV 97B or R-TV 98A and R-TV 98B (May have been taken previously)</i> Students taking this class will prepare their audio and/or video demo tapes and résumés in order to obtain and maintain an entry-level job in the broadcast industry. Emphasis will be placed on employment searches, interview techniques, involvement in professional organizations and business strategies. Students who repeat this course	(May be taken two times for credit.) Degree Appropriate 54 hours lecture. 18 hours lab. Prerequisite: R-TV 05 or R-TV 11A or R-TV 19A Advisory: JOUR 111 or JOUR 25 TV newscasting using writing, announcing, production, direction, graphics, and editing skills both in and out of the studio. Students who repeat this course will improve skills through further instruction and practice. R-TV 21 — Remote Television Production and Engineering 3.5 Units (May be taken two times for credit.) Degree Appropriate 54 hours lecture. 36 hours lab. Prerequisite: R-TV 19A Students learn remote video production using both multi-camera and single camera techniques. Topics include video engineering, directing, and remote production truck setup. Students who repeat this course will

R-TV 97A — Radio/Entertainment Industry Seminar1 Unit(May be taken four times for credit.)Degree Appropriate18 hours lecture.Prerequisite: R-TV 01 and any other three R-TV unitsCorequisite: R-TV 97B	R-TV 98A — Television and Film/Entertainment1 UnitIndustry SeminarIndustry Seminar(May be taken two times for credit.)Degree Appropriate18 hours lecture.Prerequisite: R-TV 01 and R-TV 19A
A capstone class for students preparing for a career in the radio/ entertainment industry. Students share and critique experiences emphasizing professionalism and problem-solving techniques related to their internship experience. Students who repeat this course will improve skills through further instruction and practice.	<i>Corequisite: R-TV 98B</i> A capstone class for students preparing for a career in Television or Film Production. Students share and critique experiences emphasizing professionalism and problem-solving techniques related to their internship experience. Students who repeat this course will improve skills through further instruction and practice.
(May be taken four times for credit.) Degree Appropriate 75 hours lab. <i>Prerequisite: R-TV 01 and any other 3 R-TV units</i> <i>Corequisite: R-TV 97A</i> Provides the student with on-the-job experience in the radio/ entertainment industry in order to strengthen and broaden his/her skills in the workplace. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally	R-TV 98B — Television and Film/Entertainment Industry Internship1 Unit(May be taken two times for credit.)Degree Appropriate75 hours lab.Prerequisite: R-TV 01 and R-TV 19A Corequisite: R-TV 98AProvides the student with actual on-the-job experience in television or film production in order to strengthen and broaden his/her skills in the workplace. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is
will improve skills through further instruction and practice. R-TV 97C — KSAK Radio/Internet Radio Internship 1 Unit (May be taken four times for credit.) Degree Appropriate 75 hours lab. <i>Prerequisite: R-TV 11A</i>	recommended that the hours per week be equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice. R-TV 99 — Radio/TV Special Projects (May be taken four times for credit.) Degree Appropriate 36 hours lecture.
Regular and continuing experience in the operation of the College radio station or the college Internet station. Students may select roles involving on-air announcing, production, programming and news. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the	Prerequisite: Completion of six R-TV units To offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under
R-TV 97D — KSAK Radio/Internet Radio Internship 2 Units (May be taken four times for credit.) Degree Appropriate 150 hours lab. Prerequisite: R-TV 11A Corequisite: R-TV 01 and R-TV 02 (May have been taken previously) Regular and continuing experience in the operation of the College radio station or the college Internet station. Students may select roles involving on-air announcing, production, programming and news. A minimum of 75 paid or 60-non paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice.	consideration. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced. RAD 30 — Radiographic Pathology 1.5 Units Fall Semester Degree Appropriate 24 hours lecture. <i>Corequisite: RAD 63</i> Concepts of disease and pathological processes demonstrated in diagnostic radiography; etiology; diagnosis, and prognosis of systemic disease processes.
	(May be taken four times for credit.) Degree Appropriate 18 hours lecture. Prerequisite: R-TV 01 and any other three R-TV units Corequisite: R-TV 97B A capstone class for students preparing for a career in the radio/ entertainment industry. Students share and critique experiences emphasizing professionalism and problem-solving techniques related to their internship experience. Students who repeat this course will improve skills through further instruction and practice. R-TV 97B — Radio/Entertainment Industry Internship 1 Unit (May be taken four times for credit.) Degree Appropriate 75 hours lab. Prerequisite: R-TV 01 and any other 3 R-TV units Corequisite: R-TV 97A Provides the student with on-the-job experience in the radio/ entertainment industry in order to strengthen and broaden his/her skills in the workplace. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice. R-TV 97C — KSAK Radio/Internet Radio Internship 1 Unit (May be taken four times for credit.) Degree Appropriate 75 hours lab. Prerequisite: R-TV 11 and R-TV 02 (May have been taken previously) Requisite: R-TV 11 and R-TV 02 (May have been taken previously) Requisite: R-TV 114 Corequisite: R-TV 11 and practice. R-TV 97D — KSAK R

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RAD 31 — Fluoroscopy2 UnitsSpring SemesterDegree Appropriate36 hours lecture.Corequisite: RAD 64Components and characteristics of fluoroscopic systems includingregulatory requirements for operation. Includes quality control andquality assurance systems relative to radiology.RAD 50 — Radiologic Technology3 Units	RAD 54 — Techniques of Radiologic Technology 3 Units Summer Semester Degree Appropriate, CSU (May be taken for Credit/No Credit only.) 150 hours lab. Prerequisite: RAD 62A Practical experience in a hospital setting under the supervision of clinical personnel and college instructors. Emphasis on skull, portable radiography, surgical studies and the development of nursing skills as it	RAD 61A — Theory of Radiologic Technology4 UnitsFall SemesterDegree Appropriate, CSU72 hours lecture.Prerequisite: RAD 50, MEDI 90Corequisite: RAD 52A, RAD 61B, RAD 61CConcepts of radiation, fundamentals of physics, the atom, electromagneticradiation, electricity and magnetism, electromagnetism, the X-ray machineand fluoroscopic equipment and procedures.
Summer Semester Degree Appropriate, CSU 54 hours lecture. Prerequisite: Admission to the Radiologic Technology Program, MATH 51, and CHEM 10 or equivalent Corequisite: RAD 91 Subjects related to the hospital environment: radiation protection, darkroom technique, general principles of x-ray production and production of the radiograph. Introduces the student to professional ethics and the legal considerations of health care.	relates to radiologic technology. RAD 55A — Techniques of Radiologic Technology 7 Units Fall Semester Degree Appropriate, CSU (May be taken for Credit/No Credit only.) 360 hours lab. Corequisite: RAD 63 Practical experience in an affiliated hospital under guidance of clinical personnel and college instructors. Emphasis on cystograms, urethrograms, foreign body localization, tomography, and venography.	RAD 61B — Radiographic Positioning 3 Units Fall Semester Degree Appropriate, CSU 54 hours lecture. Corequisite: RAD 61A Fundamentals of radiographic positioning of the upper and lower extremities, standard chest and abdomen; to include general radiologic anatomy, terminology, radiation protection, and ethics. 1 Unit
RAD 52A — Techniques of Radiologic Technology 4.5 Units Fall Semester Degree Appropriate, CSU (May be taken for Credit/No Credit only.) 236 hours lab. Corequisite: RAD 61A Practical application of radiographic theories and principles in a hospital setting under direct supervision of clinical personnel and college	RAD 55B — Techniques of Radiologic Technology 2.5 Units Winter Semester Degree Appropriate, CSU (May be taken for Credit/No Credit only.) 140 hours lab. Prerequisite: RAD 55A Continued experience in a hospital setting under guidance of clinical personnel and college instructors. Emphasis on E.R.C.P., sialogram,	Fall Semester Degree Appropriate, CSU 18 hours lecture. 18 hours lab. Corequisite: RAD 61A Analysis of the technical performance of producing radiographs of the chest, upper and lower extremities, and KUB. Documentation of radiographic exposure techniques. Data Call Theorem of Dedictorial Technology
instructors. Emphasis on chest, upper and lower limbs, from digits to shoulder, and from toes to knee, and abdomen (KUB). RAD 52B — Techniques of Radiologic Technology 2.5 Units Winter Semester Degree Appropriate, CSU (May be taken for Credit/No Credit only.) 140 hours lab. <i>Prerequisite: RAD 52A</i>	retrograde and other advanced procedures. RAD 56 — Techniques of Radiologic Technology 7 Units Spring Semester Degree Appropriate, CSU (May be taken for Credit/No Credit only.) 380 hours lab. <i>Prerequisite: RAD 64</i> Practical experience in an affiliated hospital under guidance of clinical	RAD 62A — Theory of Radiologic Technology4 UnitsSpring SemesterDegree Appropriate, CSU72 hours lecture.Degree Appropriate, CSU <i>Prerequisite: ANAT 10A, RAD 61A</i> Corequisite: RAD 53, RAD 62B, RAD 62CAreas of X-ray production and interaction with matter, X-ray emissions, beam restricting devices, grids, film processing, screens, radiographic quality and special equipment/accessories and procedures.
Continued application of radiographic theories and principles in a hospital setting under direct supervision of clinical personnel and college instructors. Emphasis on upper and lower limbs. RAD 53 — Techniques of Radiologic Technology 5 Units Spring Semester Degree Appropriate, CSU (May be taken for Credit/No Credit only.) 256 hours lab. <i>Prerequisite: RAD 52B</i>	personnel and college instructors. Emphasis on basic vascular procedures (angiograms), mammograms, tube placement, myelograms, arthrograms, and hysterosalpingograms. RAD 57 — Techniques of Radiologic Technology 4 Units Summer Semester Degree Appropriate, CSU (May be taken for Credit/No Credit only.) 232 hours lab. <i>Prerequisite: RAD 64</i>	RAD 62B — Radiographic Positioning3 UnitsSpring SemesterDegree Appropriate, CSU54 hours lecture.Corequisite: RAD 62AFundamentals of radiographic positioning of the abdomen, digestive and urinary systems, thorax, vertebral column, general cranial, facial and intro- duction to temporal bone radiography (mastoid and TMJ), to include radiologic anatomy, terminology, radiation protection, pediatrics and ethics.
Corequisite: RAD 62A Practical application of radiographic theories and principles in an affiliated hospital under direct supervision of clinical personnel and college instructors. Emphasis on abdominal and thoracic viscera, spine, common contrast exams, and generalized skull radiography.	Practical experience as a functioning member of an affiliated hospital under the guidance of clinical personnel and college instructors. Includes exploration of pararadiological imaging modalities and venipuncture instruction.	RAD 62C — Radiologic Technology Seminar1 UnitSpring SemesterDegree Appropriate, CSU18 hours lecture.Degree Appropriate, CSU18 hours lab.Corequisite: RAD 62AAdvanced analysis of the technical performance of radiographicexamination of the vertebral column, bony thorax, digestive system, urinary system, abdomen and general cranial radiography.

RAD 63 — Theory of Radiologic Technology 4 Units 72 hours lecture. Degree Appropriate, CSU Prerequisite: RAD 54 Degree Appropriate, CSU Corequisite: RAD 30, RAD 55A Special radiographic studies, contrast media usage and radiographic pathology. Includes principles of radiation protection and radiobiology. RAD 64 — Theory of Radiologic Technology 4 Units 72 hours lecture. Degree Appropriate, CSU Prerequisite: RAD 63 Corequisite: RAD 63 Corequisite: RAD 31. RAD 56 Corequisite: RAD 31. RAD 56	READ 90 — Preparing for College Reading3 Units(May be taken two times for credit.)Pre-Collegiate(May be taken for option of letter grade or Credit/No Credit.)54 hours lecture. <i>Prerequisite: READ 80 or satisfactory score on reading placement test</i> Prepares students for college textbook reading. Emphasizesunderstanding vocabulary and college level text analysis and comprehension. Students who repeat this course will improve skills through further instruction and practice.3 Units	RESD 51B — Respiratory Therapy Science4 UnitsSpring SemesterDegree Appropriate, CSU54 hours lecture.54 hours lab.54 hours lab.Prerequisite: RESD 50 and RESD 51ACorequisite: RESD 53 and RESD 60Basic principles of respiratory therapy equipment will be presented.Emphasis is placed on the methods of administration of therapy andthe application of specialized equipment in the acute care setting andthe application of mechanical ventilation in the clinical setting.
An analytical review of the radiologic technology core courses. Serves as preparation for State Certification and National Registry Exams. RAD 91 — Nursing Procedures in Radiologic Technology 2 Units 24 hours lecture. Degree Appropriate, CSU 24 hours lab. Degree Appropriate, CSU	54 hours lecture. Degree Appropriate, CSU <i>Prerequisite: READ 90 or satisfactory score on reading placement test</i> Effective use of critical reading in a cross-disciplinary framework. Emphasis on the development of critical reading skills of interpretation, analysis and evaluation of academic, business, and technology readings.	RESD 52 — Pulmonary Anatomy and Physiology3 UnitsFall SemesterDegree Appropriate, CSU54 hours lecture.Corequisite: RESD 51AAnatomy and physiology of the cardiopulmonary, neurological and renalsystems emphasizing clinical application of physiological concepts.
Corequisite: RAD 50 Nursing techniques and procedures; provides students with knowledge of proper patient care and management; includes patient transfer, disinfection and/or sterilization, isolation techniques, monitoring vital signs, common emergency situations and monitoring medical equipment. READING	READ 110 — Reading Tutoring for Elementary Students 3 Units Through Service Learning 36 hours lecture. Degree Appropriate 54 hours lab. Advisory: Eligibility for ENGL 68 Fundamentals of reading comprehension, vocabulary development and phonics. Educational approaches include awareness of learning styles, motivation, levels of cognition and oral communication. Covers lesson	RESD 53 — Cardiopulmonary Pathophysiology 3 Units Spring Semester Degree Appropriate, CSU 54 hours lecture. Corequisite: RESD 51B Anatomic alterations of the lungs, etiology, overview of the cardiopulmonary clinical manifestations, and general management of commonly encountered cardiopulmonary diseases.
READ 65 — Speed Reading: Methods and Applications 1 Unit 18 hours lecture. Degree Appropriate, CSU Designed to increase reading speed, while maintaining comprehension of college-level material. Improves concentration and recall. Develops flexibility in reading rate. READ 70 — Improving Reading Comprehension READ 70 — Improving Reading Comprehension 3 Units (May be taken two times for credit.) Pre-Collegiate	planning and the methodologies of presenting lessons. In coordination with local elementary schools, students reinforce learned concepts through on-site tutoring as a service learning experience. RESPIRATORY THERAPY RESD 50 — Theory and Principles of Respiratory Therapy 2 Units Fall Semester Degree Appropriate, CSU	RESD 55 — Adult Respiratory Intensive Care 3 Units Fall Semester Degree Appropriate, CSU 54 hours lecture. Corequisite: RESD 56B-1 Provides an in-depth approach to the current modalities and monitoring tools of respiratory care. Emphasis is on the adult patient who is critically ill with primary and/or secondary cardiopulmonary failure.
(May be taken for Credit/No Credit only.) 54 hours lecture. 24 hours lab. <i>Prerequisite: Satisfactory score on appropriate placement test</i> Introduction to reading, comprehension, and vocabulary strategies. Introduction to self-awareness of reading capabilities. Students who repeat this course will improve skills through further instruction and practice. READ 80 — Developing Reading Comprehension (May be taken two times for credit.) (May be taken for Credit/No Credit only.) 54 hours lecture. 24 hours lab. <i>Prerequisite: READ 70 or satisfactory score on reading placement test</i> Further development of reading comprehension and vocabulary strategies including self-awareness of reading capabilities. Students who repeat this course will improve skills through further instruction and practice.	36 hours lecture. <i>Corequisite: RESD 51A, RESD 52</i> <i>Advisory: ANAT 10A, ANAT 10B, CHEM 10, MATH 51 or MATH 59, MEDI 90, taken prior</i> Properties of liquids, gases, kinetic theory of gases, units of measurements, gas laws, lung mechanics, flow of fluids, and pressure measuring devices used in respiratory therapy. RESD 51A — Respiratory Therapy Science Fall Semester Degree Appropriate, CSU 54 hours lecture. 54 hours lab. <i>Prerequisite: Admission to Respiratory Therapy Program</i> <i>Corequisite: RESD 50, RESD 52</i> Basic principles of respiratory therapy equipment. Emphasis placed on methods of administration of therapy and application of specialized equipment in the clinical setting. Basic respiratory physiology and oxygen transport.	RESD 56A — Techniques of Respiratory Therapy 2.5 Units Summer Semester Degree Appropriate, CSU (May be taken for Credit/No Credit only.) 144 hours lab. Prerequisite: RESD 51B Corequisite: RESD 57B Clinical practice in intensive care and mechanical ventilator procedures in the treatment of adult and pediatric patients in a hospital setting. The student is expected to perform basic therapeutic modalities mastered in RESD 51A and RESD 51B and apply concepts learned in the first academic sessions of the Respiratory Therapy Program. Instruction in the application of therapeutic modalities and diagnostic procedures performed in the general management and treatment of adult and pediatric patients requiring respiratory care are introduced.

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RESD 56A-1 — Techniques of Respiratory Therapy 5 Units Summer Semester Degree Appropriate, CSU (May be taken for Credit/No Credit only.) 288 hours lab. Prerequisite: RESD 51B Corequisite: RESD 57 Clinical practice in a hospital setting. The student is expected to perform basic therapeutic modalities mastered in RESD 51A and RESD 51B and apply concepts learned in the first two semesters of the Respiratory Therapy Program. Instruction in the application of therapeutic modalities and diagnostic procedures performed in the management and treatment of adult and pediatric patients requiring respiratory care are introduced. RESD 56B — Techniques of Respiratory Therapy 6 Units Fall Semester Degree Appropriate, CSU (May be taken for Credit/No Credit only.) 384 hours lab. Prerequisite: RESD 56A Corequisite: RESD 55, RESD 58 Clinical practice in the hospital setting. The student is expected to perform basic therapeutic modalities mastered in RESD 51A and RESD 51B and apply concepts learned in the first three semesters of the Respiratory Therapy Program. Instruction in the application of therapeutic modalities mastered in RESD 51A and RESD 51B and apply concepts learned in the first three semesters of the Respiratory Therapy Program. Instruction in the application of therapeutic modalities and apply concepts learned in the first three semesters of the Respiratory Therapy Program. Instruction in the application of therapeutic modalities and diagnostic procedures performed in the	RESD 57 — Special Procedures for Respiratory Care 3 Units Summer Semester Degree Appropriate, CSU 54 hours lecture. <i>Corequisite: RESD 56A-1</i> Basic application and skills development in respiratory pharmacology, bronchoscopy, blood drawing and analysis, chest drainage, NIPPV, and mechanical ventilation.	RESD 61 — Current Issues in Respiratory Care 3 UnitsSpring SemesterDegree Appropriate, CSU54 hours lecture.Corequisite: RESD 56C-1, RESD 59Explores recently developed health care techniques and strategies fordiagnostics, assessment, and therapeutics and their impact on respiratory therapists.
	RESD 57A — Special Procedures for Respiratory Care1.5 UnitsSummer SemesterDegree Appropriate, CSU27 hours lecture.Prerequisite: RESD 50Corequisite: RESD 56ATopics in the basic application of and skills development in bronchoscopy,blood drawing and analysis, chest drainage, microbiology for respiratorycare, IPPB, and blood gas data analysis.	RESD 90T — Topics in Respiratory Therapy 2.5 Units Winter Semester Degree Appropriate (May be taken for Credit/No Credit only.) 133 hours lab. <i>Prerequisite: RESD 55</i> Explores various topics of Respiratory Therapy. SERVICE LEARNING
	RESD 57B — Special Procedures for Respiratory Care 1.5 Units Winter Semester Degree Appropriate, CSU 27 hours lecture. <i>Prerequisite: RESD 51B</i> <i>Corequisite: RESD 56A</i> Basic application and skills development in respiratory pharmacology, bronchoscopy, and blood drawing and analysis.	SL 1 — Service Learning/Seminar for Health Occupations 6 Units (May be taken four times for credit.) Degree Appropriate, CSU 36 hours lecture. 216 hours lab. Prepare students with service experiences in health occupations. Examines and profiles community health care needs. Interfaces with various patient populations. Weekend and overnight labs to various areas within California may be offered. Out-of-class projects required. Students who repeat this
management and treatment of adult and pediatric patients requiring respiratory care are done. Emphasis of intensive care and mechanical ventilator procedures are introduced. RESD 56C — Techniques of Respiratory Therapy 2.5 Units Winter Semester Degree Appropriate, CSU (May be taken for Credit/No Credit only.) 144 hours lab.	RESD 58 — Neonatal Intensive Care3 UnitsFall SemesterDegree Appropriate, CSU54 hours lecture.Corequisite: RESD 56B-1, RESD 55Emphasizes neonatal pathophysiologies, etiologies, and ramifications.Encompasses the newest techniques in monitoring equipment used in the treatment and maintenance of the premature infant. Designed primarily for respiratory therapists and nurses.	course will improve skills through further instruction and practice. SL 2 — Linked Service Learning 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 54 hours lab. Links service learning with content-specific courses across the college curriculum. Allows students to explore interests or career objectives through community involvement and service. Requires arranged hours
<i>Prerequisite: RESD 55</i> Clinical practice in the hospital setting. Continued practice of intensive care and mechanical ventilator procedures in the treatment of adult and pediatric patients.	RESD 59 — Respiratory Therapeutic Modalities3 UnitsSpring SemesterDegree Appropriate, CSU54 hours lecture.Corequisite: RESD 56C-1, RESD 61	of community-based activity. Must be enrolled concurrently in a course with a service learning Link. Students who repeat this course will improve skills through further instruction and practice.
RESD 56D — Techniques of Respiratory Therapy6 UnitsSpring SemesterDegree Appropriate, CSU(May be taken for Credit/No Credit only.)384 hours lab.Prerequisite: RESD 56CCorequisite: RESD 59, RESD 61Clinical practice in the hospital setting. Application of therapeuticmodalities and diagnostic procedures performed in the managementand treatment of adult and pediatric intensive care patients. A six-weekrotation is done in the neonatal intensive care unit. The student isexpected to perform basic therapeutic modalities mastered in RESD 51Aand RESD 51B and apply concepts learned in the first four semesters ofthe Respiratory Therapy Program.	Advanced practitioner skills development pertinent to the application and function of respiratory therapy equipment with emphasis on the machine-patient interface. RESD 60 — Comprehensive Pulmonary Assessment 2 Units Spring Semester Degree Appropriate, CSU 36 hours lecture. Corequisite: RESD 51B, RESD 53 Techniques of pulmonary assessment including history taking, clinical laboratory data, pulmonary function testing data, chest X-rays, physician exam findings, arterial blood gas data, hemodynamic monitoring data, exhaled gas monitoring data, nutrition, and synopsis of findings; extensive practice in collecting and recording this data.	SL 3 — Service Learning/Seminar in Community Involvement 3 Units (May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 18 hours lecture. 108 hours lab. Examines and profiles community needs through service learning. Explores and allows students to directly interface with community populations. Permits students the opportunity to explore various career options through community service. Enriches personal and career development through understanding of civic and social issues. Students who repeat this course will improve skills through further instruction and practice.

SL 4 — Service Learning and Community Involvement 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 9 hours lecture. 27 hours lab. Examines and addresses community needs through service learning. Students directly interface with community populations to identify needs and implement activities. Permits exploration of service-oriented career options. Enriches personal and career development through understanding of civic and social issues. SL 99 — Special Projects in Service Learning 1 Unit	SIGN 103 — American Sign Language 34 Units72 hours lecture.Degree Appropriate, CSU, UCPrerequisite: SIGN 81 or SIGN 102 or equivalent fluencyFurther study of American Sign Language focused on developing comprehension skills, advanced grammatical structures with continued emphasis on expressive skills in narrative. Aspects of Deaf culture will be studied.	SIGN 220 — Translation: American Sign Language/English3 Units(May be taken three times for credit.)Degree Appropriate54 hours lecture.Prerequisite: SIGN 82A or SIGN 103 and SIGN 86 or SIGN 210Practice in translating between American Sign Language and English by comparing texts in both languages. Students who repeat this course will improve skills through further instruction and practice.
	SIGN 104 — American Sign Language 44 Units72 hours lecture.Degree Appropriate, CSU, UCPrerequisite: SIGN 82A or SIGN 103 or equivalent fluencyEmphasis on expressive/conversational skills in American Sign Language	SIGN 230 — Principles of Interpreting3 Units54 hours lecture.Degree AppropriateCorequisite: SIGN 82B or SIGN 104 (May have been taken previously)Covers various aspects of interpreting theory and process including the
 (May be taken four times for credit.) Degree Appropriate, CSU (May be taken for Credit/No Credit only.) 36 hours lab. In order to offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, from time to time various departments offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Student must have instructor's authorization before enrolling in this class. Students who repeat this course will improve skills through further instruction and practice. 	along with continued focus on grammatical and cultural features.SIGN 105 — American Sign Language 54 Units(May be taken two times for credit.)Degree Appropriate72 hours lecture.Prerequisite: SIGN 82B or SIGN 104Advanced American Sign Language communication skills with emphasison signing descriptive narratives and strengthening conversationalskills. Target language practice includes holding discussions and makingdecisions. Further exposure to Deaf cultural components. Studentswho repeat this course will improve skills through further instructionand practice.	history of sign language interpreting. Examines the interpreter's role and ethical standards.SIGN 231 — Interpreting4 Units(May be taken three times for credit.)Degree Appropriate72 hours lecture.Prerequisite: SIGN 82B or SIGN 104, SIGN 87 or SIGN 220, and SIGN 88 or SIGN 230Advisory: SPCH 1ASkill development in interpreting from American Sign Language (ASL) to English and English to ASL, focusing on interpreting in the consecutive mode. Processing skills and task management will be emphasized. Students who repeat this course will improve their skill and better prepare themselves for the next interpreting course.SIGN 232 — Advanced Interpreting4 Units (May be taken three times for credit.)Degree Appropriate72 hours lecture.Prerequisite: SIGN 88A or SIGN 231 Refines basic interpreting skills with emphasis on simultaneous interpreting. Intensive skill development in interpreting from English to American Sign Language (ASL) and ASL to English. Students who repeat
SIGN LANGUAGE & INTERPRETING SIGN LANGUAGE & INTERPRETING SIGN 99 — Special Projects in Sign Language/Interpreting 2 Units (May be taken three times for credit.) Degree Appropriate 36 hours lecture. Prerequisite: SIGN 81 or Sign 102 or equivalent signing ability Offers students the opportunity to explore American Sign Language, American Deaf Culture or Sign Language Interpreting in greater depth. Content and methods of study vary from semester to semester and depend on the particular project under consideration. Degree Appropriate	SIGN 108 — Fingerspelling2 Units(May be taken three times for credit.)Degree Appropriate(May be taken for Credit/No Credit only.)36 hours lecture. <i>Prerequisite: SIGN 81 or SIGN 102</i> Skill development in receptive and expressive fingerspelling. Students who repeat this course will improve fluency and better prepare themselves for other courses in the program.	
SIGN 101 — American Sign Language 1 72 hours lecture. Degree Appropriate, CSU, UC Fundamentals of American Sign Language. Preparation for visual/gestural communication followed by intensive work on comprehension skills; modeling of grammatical structures; general information about Deaf culture.	SIGN 201 — Deaf Perspectives 3 Units 54 hours lecture. Degree Appropriate Comprehensive study of Deaf people throughout their lives, including points of view from a variety of Deaf and hard-of-hearing people and from their relatives, educators, and other professionals in the field. SIGN 202 — American Deaf Culture 3 Units 54 hours lecture. Degree Appropriate, CSU, UC SUGN 202 — CSU, UC	this course will improve their skill and better prepare themselves for entry-level job placement. SIGN 238 — Oral Transliteration 3 Units (May be taken two times for credit.) Degree Appropriate 54 hours lecture. Learn skills to facilitate communication for Deaf and hard-of-hearing people
SIGN 102 — American Sign Language 24 Units72 hours lecture.Degree Appropriate, CSU, UCPrerequisite: SIGN 80 or SIGN 101 or equivalent fluencyFurther study of fundamentals of American Sign Language focusingon comprehension skills, grammatical structures and practice in theexpressive aspects of the language, as well as exposure to Deaf culture.	54 hours lecture. Degree Appropriate, CSU, UC American Deaf cultural norms, values, mores and in stitutions. SIGN 210 — American Sign Language Structure 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Prerequisite: SIGN 81 or SIGN 102 Linguistic structure of American Sign Language, including phonology, morphology and syntax. Sociolinguistic issues will also be discussed.	who use speech reading and speech to communicate. Students who repeat this course will improve skills through further instruction and practice. SIGN 239 — Practicum 1 Unit (May be taken for Credit/No Credit only.) Degree Appropriate 54 hours lab. <i>Prerequisite: SIGN 88B or SIGN 232</i> Develops and hones interpreting skills in supervised interpreting situations.

SOCIOLOGYSOC 1 — Sociology3 Units54 hours lecture.Degree Appropriate, CSU, UCPrerequisite: Eligibility for ENGL 68A systematic study of human relations and social structures which emphasizes the interaction between personality, culture and society.Special consideration is given to an understanding of group behavior, personality formation, social organization, and social change.SOC 1H — Sociology – Honors3 Units54 hours lecture.Degree Appropriate, CSU, UCPrerequisite: Acceptance into the Honors Program A systematic study of human relations and social structures which	SOC 5 — Introduction to Criminology3 Units54 hours lecture.Degree Appropriate, CSU, UCA scientific analysis of the nature, extent, and causes of violations ofsocietal rules of behavior that are formally defined as crime anddelinquency. Includes an analysis of the theoretical perspectives of thesociology of deviance on the criminal justice system and the impact ofcrime on society.SOC 14 — Marriage and the Family54 hours lecture.Degree Appropriate, CSU, UCPrerequisite: Eligibility for ENGL 68Explores the sociological and psychological functions of dating,engagement, weddings, marriage, and the family. Focuses on influencesand theories of mate selection, love, and interpersonal attraction. Covers	SOC 99 — Special Projects in Sociology 2 Units Degree Appropriate, CSU (May be taken four times for credit.) 36 hours lecture. Offers selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced. SPANISH
emphasizes the interaction between personality, culture and society. Special consideration is given to an understanding of group behavior, personality formation, social organization, and social change. An honors course designed to provide an enriched experience. Students may not receive credit for both SOC 1 and SOC 1H. SOC 2 — Sociology 3 Units 54 hours lecture. Degree Appropriate, CSU, UC <i>Advisory: Eligibility for ENGL 68</i> The application of basic sociological principles and concepts to the study and understanding of social problems. Special emphasis on the analysis of social values, social organization, role, status and stress, and also on the study of controversial public issues that arise in contemporary American society. Students will be encouraged to evaluate and discuss both the theoretical and practical approaches to social problems. Individual student projects will be undertaken.	and theories of male selection, love, and interpersonal attraction. Covers trends and changes in marriage and the family and gender roles. Explores different types of families and family patterns. Covers factors leading to divorce and influences on the divorce rate, remarriage rate, and step-families. Explores family life-cycle adjustments including parenthood, mid-life, grandparenthood, and widowhood. Analyzes characteristics of "successful" marriages and families. SOC 15 — Child Development 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Theoretical aspects of physical, social, emotional and cognitive development from conception through adulthood. Requires observation of children. 3 Units SOC 20 — Sociology of Ethnic Relations 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Provides insight to the culture diversity that exists in the United States.	SPAN 1 — Elementary Spanish4 Units(CAN SPAN 2)Degree Appropriate, CSU, UCSPAN 1+2 = CAN SPAN SEQ A72 hours lecture.Development of the ability to converse, read and write in Spanish.Includes essentials of pronunciation, vocabulary, idioms andgrammatical structures along with an introduction to Hispanic culture.Intended for students without previous exposure to Spanish.SPAN 2 — Continuing Elementary Spanish4 Units(CAN SPAN 4)Degree Appropriate, CSU, UCSPAN 1+2 = CAN SPAN SEQ A72 hours lecture.72 hours lecture.Prerequisite: SPAN 1 or SPAN 1H or two years of high school Spanish or equivalent.Curthere doublement of conversational reading and writing skills in
SOC 2H — Sociology – Honors3 Units54 hours lecture.Degree Appropriate, CSU, UCPrerequisite: Acceptance into the Honors ProgramThe application of basic sociological principles and concepts to the studyand understanding of social problems. Special emphasis on the analysisof social values, social organization, role, status and stress, and also onthe study of controversial public issues that arise in contemporaryAmerican society. Students will be encouraged to evaluate and discussboth the theoretical and practical approaches to social problems.Individual student projects will be undertaken. An honors coursedesigned to provide an enriched experience. Students may not receivecredit for both SOC 2 and SOC 2H.SOC 4 — Introduction to Gerontology3 Units54 hours lecture.Degree Appropriate, CSU, UCCharacteristics, contributions, and problems of older persons. Emphasizestheoretical perspectives on the process of aging. Topics include gender,race, ethnicity, religion, stratification, and health care. Attention is givento gerontology as an academic discipline and a field of practice.	An extensive study of four major ethnic groups (Blacks, Asians, Native Americans, and Latinos) is provided with emphasis placed on historical experiences, contemporary circumstances and future trends. Origins and theories of stereotypes, prejudices and discrimination are explored along with an analysis of racial stratification. SOC 20H — Sociology of Ethnic Relations – Honors 3 Units 54 hours lecture. Degree Appropriate, CSU, UC <i>Prerequisite: Acceptance into the Honors Program</i> Provides insight to the culture diversity that exists in the United States. An extensive study of four major ethnic groups (Blacks, Asians, Native Americans, and Latinos) is provided with emphasis placed on historical experiences, contemporary circumstances and future trends. Origins and theories of stereotypes, prejudices and discrimination are explored along with an analysis of racial stratification. An honors course designed to provide an enriched experience. Students may not receive credit for both SOC 20 and SOC 20H.	Further development of conversational, reading and writing skills in Spanish with special emphasis on verbs, grammar and expansion of vocabulary. Further study of Hispanic culture. SPAN 3 — Intermediate Spanish 4 Units Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 72 hours lecture. Prerequisite: SPAN 2 or equivalent Further development of communicative proficiency in Spanish. Further study and review of grammar. Increasing emphasis on reading and writing as tools in exploring Hispanic civilization. SPAN 4 — Continuing Intermediate Spanish 4 Units (CAN SPAN10) Degree Appropriate, CSU, UC SPAN 3+4 = CAN SPAN SEQ B (May be taken for option of letter grade or Credit/No Credit.) 72 hours lecture. Prerequisite: SPAN 3 or SPAN 3H or equivalent Premasis on increased proficiency in speaking, reading and writing Spanish. Review of grammar, increased vocabulary building. Readings and discussions on Hispanic cultural topics. Introduction to Hispanic literature.

		Course Descriptions
SPAN 5 — Advanced Spanish 4 Units Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 72 hours lecture. Prerequisite: SPAN 4 or equivalent Emphasis is placed on increased proficiency in speaking, reading and writing Spanish. Cultural insights are developed through videos, movies and readings in Hispanic culture through different literary genres.	Spanish course. Requires 24 hours using Language Learning Center resources to receive credit. Students who repeat this course will improve their language skills and expand their knowledge of Hispanic cultures. SPAN 53 — Conversational Spanish 3 Units Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. Prerequisite: SPAN 2 or equivalent	SPCH 1B — Intermediate Public Speaking 3 Units 54 hours lecture. Degree Appropriate, CSU, UC <i>Prerequisite: SPCH 1A or SPCH 1AH</i> Practice in extemporaneous speaking with stress on organization and delivery. Analyze, synthesize, criticize and advocate ideas, using inductive and deductive reasoning, distinguishing fact from opinion and avoiding fallacies of language and logic as critical thinkers both as alert members of an audience and as perceptive public speakers.
SPAN 6 — Continuing Advanced Spanish 4 Units Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 72 hours lecture. Prerequisite: SPAN 5 or equivalent Advanced reading, discussing and writing in Spanish designed to provide further cultural insights into the Hispanic world through the study of cultural and literary readings. High level of proficiency in Spanish will be emphasized.	Development of intermediate Spanish conversational skills. Emphasis on collaborative activities and practical use of the language. Extensive exposure to Hispanic culture. Grammar is presented in context. SPAN 54 — Continuing Conversational Spanish 3 Units Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. Prerequisite: SPAN 53 Development of advanced Spanish conversational skills. Emphasis on collaborative activities and practical use of the language. Extensive	SPCH 3 — Voice and Diction 3 Units Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. Improvement of the speaking voice and oral communication style, including proper use for control and projection of the voice, vocal expressiveness, articulation and pronunciation. Develops accuracy of sound production for standard American speech through use of the International Phonetic Alphabet. Emphasizes individual diagnosis and extensive oral practice.
SPAN 11 — Spanish for the Spanish Speaking4 Units72 hours lecture.Degree Appropriate, CSU, UCProvides Spanish-speaking students without previous formal study ofSpanish with the basis to improve skills in standard Spanish and to broadentheir understanding of Hispanic cultures. Focuses on developing vocabulary,improving orthography and the use of grammatical structures, both oraland written. Class instruction conducted in Spanish.	exposure to Hispanic culture. Grammar is presented in context. SPAN 66 — Spanish for Fire and Police Personnel 3 Units Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. Teaches the student to elicit basic information and answer simple	SPCH 4 — Oral Interpretation of Literature 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Develops an appreciation of various genres of literature through textual analysis, oral reading, and evaluation. Practical training is given in critical reading, editing, and performance of poetry, prose, drama, essay and experimental forms of performance text.
SPAN 12 — Continuing Spanish for the Spanish Speaking 4 Units72 hours lecture.Degree Appropriate, CSU, UCPrerequisite: SPAN 11 or equivalentProvides Spanish-speaking students with previous formal study ofSpanish with further development and improvement of skills instandard Spanish and a broader understanding of Hispanic cultures.Culturally-based topics are the focus of readings and class discussions.Class instruction conducted in Spanish.	questions in Spanish relating to everyday situations in law enforcement and fire science. Upon completion, the student will be able to talk to Spanish speakers about routine matters, such as family and job-related conditions. SPEECH SPCH 1A — Public Speaking 54 hours lecture. 3 Units Degree Appropriate, CSU, UC	SPCH 5 — Readers Theater3 Units54 hours lecture.Degree Appropriate, CSU, UCPrerequisite: SPCH 1A or SPCH 1AH or SPCH 4Theory, principles, and techniques of the interpretation of literature in the medium of Readers Theater. There is programming and presentation of prose, poetry and drama by an ensemble of readers. Emphasis is placed on experimental presentations and on the development of analytical insight into literary forms.
SPAN 25 — Spanish Literature3 Units Degree Appropriate, CSU, UC(May be taken for option of letter grade or Credit/No Credit.)54 hours lecture.Prerequisite: SPAN 4 or equivalent Introduction to the literatures of Mexico, other Spanish-American countries and Spain. All reading and lectures are in Spanish.	Prerequisite: Eligibility for ENGL 1A Study and apply rhetorical principles to research and analyze topics, organize sentence outlines, and deliver effective public speeches. Students perform speaking and listening assignments that utilize effective verbal, vocal and physical communicative strategies, and critical/analytical techniques. SPCH 1AH — Public Speaking – Honors (CAN SPCH 4) 3 Units	SPCH 6 — Small Group Communication 3 Units (CAN SPCH10) Degree Appropriate, CSU, UC 54 hours lecture. Corequisite: SPCH 1A or SPCH 1AH (May have been taken previously) Principles of communication in a variety of small group contexts. Theory, application and evaluation of group communication processes, including problem-solving, conflict management, decision making, and leadership.
SPAN 35 — Spanish Language Laboratory.5 Unit(May be taken four times for credit.)Degree Appropriate, CSU(May be taken for Credit/No Credit only.)27 hours lab.27 hours lab.Corequisite: Concurrent or previous enrollment in SpanishAn independent study laboratory course for students who wish toimprove their skills in Spanish. May supplement any current or previous	54 hours lecture. <i>Prerequisite: Acceptance into the Honors Program</i> Study and apply rhetorical principles to research and analyze topics, organize sentence outlines, and deliver effective public speeches. Perform speaking and listening assignments that utilize effective verbal, vocal, and physical communicative strategies and critical/ analytical techniques. An honors course designed to provide an enriched experience. Students may not receive credit for both SPCH 1A and SPCH 1AH.	SPCH 7 — Intercultural Communication 3 Units 54 hours lecture. Degree Appropriate, CSU Introduction to intercultural communication in domestic and/or global contexts. Influence of cultures, languages, and social patterns on how members of groups relate among themselves and with members of different ethnic and cultural groups. Theory and application of effective communication across cultures. Appreciation of diverse cultural voices.

Course Descriptions

SPCH 15 — Forensics: Contest Speech and Debate2 Units(May be taken four times for credit.)Degree Appropriate, CSU18 hours lecture.54 hours lab.54 hours lab.Advisory: SPCH 1A or SPCH 1AHParticipation in intercollegiate speech tournaments through Mt. SACForensics Team. Instructions in preparatory procedures for thesetournaments, including techniques in persuasive oratory, extempore,	SPCH 20H — Argumentation and Debate – Honors 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Prerequisite: SPCH 1A or SPCH 1AH and acceptance into the Honors Program Equips the student to engage in rational discussion and reasoned advocacy.	Provides a foundation for life-long learning that promotes greater self-awareness and success. Academic success strategies include text management, time management, listening, note taking, oral and written communication, test-taking, memorization, use of campus resources, and research methods.
	Emphasis is given to rhetorical principles of argumentation, both theory and practice. An honors course designed to provide an enriched experience. Students may not receive credit for both SPCH 20 and SPCH 20H.	STDY 85 — Focused Study Techniques1 Unit(May be taken four times for credit.)Degree Appropriate18 hours lecture.18
interpretation, expository, impromptu, discussion, speech analysis, debate. Student has option to choose area of interest and also an opportunity to participate in public community programs. Attendance required at one competition. Students who repeat this course will improve skills through further instruction and practice.	SPCH 26 — Interpersonal Communication3 Units54 hours lecture.Degree Appropriate, CSU, UCPrerequisite: Eligibility for ENGL 68Principles of verbal and nonverbal transactions that occur in everydayface-to-face communication. Study of theory and research findings and	Advisory: Eligibility for ENGL 67 A single purpose course designed to support learning in either an academic field or in a vocation. Provides support in any one of the following: test taking, research process, time management, team building, methods of learning, memory, concentration, listening, note- taking, textbook reading strategies, or motivation. Students who repeat
SPCH 16A — Forensics: Individual Event Team2 Units(May be taken three times for credit.)Degree Appropriate, CSU10011001	their application to communication in professional and personal relationships.	this course will improve skills through further instruction and practice.
180 hours activity. <i>Corequisite: SPCH 15 (May have been taken previously)</i> Students develop speech performance skills and participate in multiple intercollegiate speaking competitions, festivals, and/or public events as members of the Mt. SAC Forensics Team. Emphasis is on individual speaking events, including public address and oral interpretation of literature. of judge critiques and directed self-study. Students who repeat this course will improve skills through further instruction and practice.	SPCH 26H — Interpersonal Communication – Honors 3 Units 54 hours lecture. Degree Appropriate, CSU, UC <i>Prerequisite: Acceptance into the Honors Program</i> Principles of verbal and non-verbal transactions that occur in everyday face-to-face communication. Study of theory and research findings and their application to communication in professional and personal relationships. An honors course designed to provide an enriched experience. Students may not receive credit for both SPCH 26 and SPCH 26H.	STDY 100 — Student Achievement and Fundamentals 3 Units of Learning 3 Units 54 hours lecture. Degree Appropriate, CSU Advisory: Eligibility for ENGL 68 or READ 100 Designed to increase student success in transfer college level courses. Provides a systematic approach to advanced study techniques for academic success in higher education. Develops the steps leading to successful transfer/transition to four-year institutions or careers. SURVEYING
SPCH 16B — Forensics: Debate Team2 Units(May be taken three times for credit.)Degree Appropriate, CSU180 hours activity.Corequisite: SPCH 15 (May have been taken previously)Students develop speaking and argumentation skills and participate in multiple inter-collegiate speaking competitions, festivals, and/or public events as members of the Mt. SAC Forensics Team. Emphasis is on parliamentary debate and extemporaneous speaking. Students who repeat this course will improve skills through further instruction and practice.	SPCH 68 — Preparation for Public Speaking 3 Units 54 hours lecture. Degree Appropriate Advisory: ENGL 67 or AMLA 43W or eligibility for ENGL 68 Preparation for college level public speaking. Emphasis on outlining, research skills, organization of ideas, and management of speech anxiety. Includes multiple speaking and anxiety reduction activities. SPCH 99 — Special Projects in Speech (May be taken four times for credit.) 2 Units	SURV 1A — Surveying 3 Units Degree Appropriate, CSU, UC Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 36 hours lab. Prerequisite: MATH 150 or equivalent high school courses Surveying fundamentals; use and care of surveying instruments including steel tape, engineer's level, theodolite and total station; horizontal and
SPCH 16C — Forensics: Readers Theater Team2 Units(May be taken three times for credit.)Degree Appropriate, CSU180 hours activity.Corequisite: SPCH 15 (May have been taken previously)Students develop speech performance skills and participate in multipleintercollegiate speaking competitions, festivals, and/or public events asmembers of the Mt. SAC Forensics Team. Students will perform in one ormore Readers Theater pieces. Students who repeat this course willimprove skills through further instruction and practice.	108 hours lecture. To offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced.	vertical measurements; layout, traverse, area computations; analysis and adjustments of random errors; stadia surveying; mapping. SURV 1B — Surveying 3 Units Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 54 hours lab. <i>Prerequisite: SURV 1A</i> Construction surveying; volumes; property surveying; control surveys; California coordinate system; horizontal and vertical curves; introduction
SPCH 20 — Argumentation and Debate3 Units54 hours lecture.Degree Appropriate, CSU, UCPrerequisite: SPCH 1A or SPCH 1AH or equivalentEquips the student to engage in rational discussion and reasonedadvocacy. Emphasis is given to rhetorical principles of argumentation,both theory and practice.	STUDY TECHNIQUES STDY 80 — Studying and Learning: Foundations for Success 3 Units Pre-Collegiate (May be taken for option of letter grade or Credit/No Credit.) 54 hours lecture. Advisory: Eligibility for ENGL 67 or READ 80	to electronic, photogrammetric, and G.I.S. methods; mapping project; introduction to the method of least squares; land survey descriptions; astronomical observations.

Course Descriptions

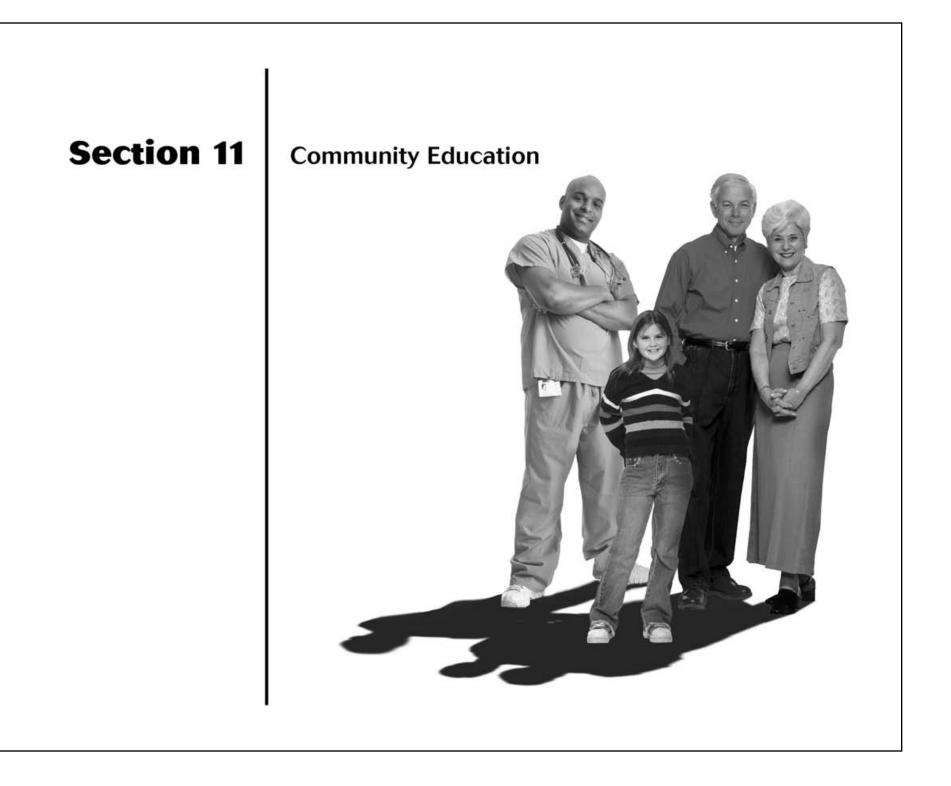
		Course Descriptions
TECHNOLOGY & RELATED COURSESTECH 60 — Customer Relations for the Technician1 Unit(May be taken two times for credit.)Degree Appropriate(May be taken for Credit/No Credit only.)18 hours lecture.18 hours lecture.Customer relations (soft skills) for the technician including benefits of knowing and using effective customer contact tools, proper customer interactions, ethics, and maintaining customer satisfaction.	THTR 15 — Play Rehearsal and Performance 2 Units (CAN DRAM16) Degree Appropriate, CSU, UC (May be taken four times for credit.) (May be taken for option of letter grade or Credit/No Credit.) 108 hours lab. Participation under faculty supervision in the planning, preparation and presentation of college-sponsored dramatic presentations. Emphasis on acting with some technical theater assignments. Students who repeat this course will improve skills through further instruction and practice.	THTR 24 — Introduction to Theatrical Design3 Units36 hours lecture.Degree Appropriate, CSU54 hours lab.Prerequisite: THTR 14Sketching and a variety of media techniques for scenic design for theater arts. Development of a scenic floor plan, elevations and rendering. Application of basic techniques of drawing and drafting theatrical scenery. Color theory, research, design concept and design process to be studied in-depth.
THEATER ARTS THTR 9 — Introduction to Theater Arts (CAN DRAM18) 3 Units Degree Appropriate, CSU, UC 54 hours lecture. A comprehensive introduction to the theater, including the aesthetic, artistic, technical, and business aspects.	THTR 16 — Theatrical Make-Up2 Units(CAN DRAM14)Degree Appropriate, CSU, UC36 hours lecture.36 hours lab.36 hours lab.An introduction to the theory and practice of make-up for the stage.The student will gain practice in the design and application of straight, stylized character, and other make-up techniques.	THTR 25 — Theatrical Playwriting3 Units54 hours lecture.Degree Appropriate, CSUAdvisory: Eligibility for ENGL 1APlaywriting for the stage. Students will create and critique their ownplays, as well as study and critique plays from well known authors andproductions. Includes basics of linear broken linear, episodic, 'A'-'B' andritual structures.
THTR 10 — History of Theater Arts3 Units54 hours lecture.Degree Appropriate, CSU, UCPrerequisite: Eligibility for ENGL 1ADesigned to present an appreciative background to dramatic literature and to the development of dramatic art. Representative plays and the history and development of the living stage will be stressed.THTR 11 — Principles of Acting I (CAN DRAM 8)3 Units Degree Appropriate, CSU, UC	THTR 17 — Acting for Television 3 Units 54 hours lecture. Degree Appropriate, CSU, UC Prerequisite: THTR 11 Assists students to prepare for an occupation in the performing areas of television and film. Background, methodology and techniques of acting for the camera. Includes TV equipment and how to make it work for the TV actor; study of image, type and character with practical exercises and	THTR 60 — Children's Theater 3 Units (May be taken two times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36 hours lecture. 72 hours lab. A comprehensive study of theater for the child audience in theory and practice. Specifically seeks to evaluate play production techniques and literature with an one to the needs of an audience of children ladudos.
54 hours lecture. Introduction to the basic principles and techniques of acting as an artistic discipline. Analysis of the plot, characterization and language of the drama. Performances of laboratory scenes, readings and exercises.	scenes in various styles such as TV drama, sit-coms, news, commercials. THTR 18 — Technical Theater Practicum 1 Unit (May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54 hours lab.	literature with an eye to the needs of an audience of children. Includes history of children's theater, analysis of plays for children and actual experience in acting, directing and producing children's plays for public presentation. Students who repeat this course will improve skills through further instruction and practice.
THTR 12 — Principles of Acting II3 Units(CAN DRAM22)Degree Appropriate, CSU, UC54 hours lecture.Prerequisite: THTR 11Advanced study of principles presented in DRMA 11. An investigation of acting techniques through the study and presentation of varied dramatic scenes.	Participation in the technical preparation and operation of productions presented to the community. The student will be involved in one or more of the following areas: stage scenery construction, stage lighting set up, property construction, stage sound set up, costume construction and make-up. Crew assignments will be given to the student upon enrollment. The availability of assignments is contingent upon the requirements of the production. Students who repeat this course will improve skills through further instruction and practice.	THTR 90T — Topics in Theater1 Unit(May be taken four times for credit.)Non-Degree Credit54 hours lab.Explores various topics in theater. Topics will vary for each topics course.THTR 99 — Special Projects in Theater2 Units(May be taken four times for credit.)Degree Appropriate, CSU36 hours lecture.1000000000000000000000000000000000000
THTR 14 — Stagecraft3 Units(CAN DRAM12)Degree Appropriate, CSU, UC(May be taken two times for credit.)36 hours lecture.54 hours lab.Theory and practice of stage design and lighting. Practical work in scenedesign and construction and lighting layouts, with the opportunity toperform these tasks in actual theater situations. By virtue of the widerange of productions staged by the department, students who repeatthis course will increase their skills and proficiency.	THTR 19 — Theatrical Costuming3 Units(May be taken two times for credit.)Degree Appropriate, CSU, UC36 hours lecture.54 hours lab.54 hours lab.Theatrical costuming design and construction. Includes the study of costume history, principles of costume design, fibers and textiles, basic costume construction, and design rendering techniques. Costume crew assignments for major productions will provide practical instruction in actual performance demands on costumes and their proper maintenance. Class is suitable for people interested in costuming for theater, dance, film, television, and reenactments. Students who repeat this course will improve skills through further instruction and practice.	To offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines in greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced.

COURSE DESCRIPTIONS

TRANSPORTATIONTRAN 17 — Air Transportation3 Units54 hours lecture.Degree Appropriate, CSUAdvisory: AERO 23Degree Appropriate, CSUA survey course of the air transportation industry. Topics include a historical perspective, regulators and associations, general aviation industry, airline industry, economic characteristics of the airlines, airline management, air cargo, airline labor relations, international aviation, and aviation career planning.TRAN 19 — Air Law and Regulation2 Units Degree Appropriate Develops a basic understanding of the legal environment surrounding aviation, the fundamentals of the U.S. legal system, and the impact of the U.S. constitution on aviation activities. Topics include criminal law for aviators and air carriers, tort liability and air commerce, government	TUTR 10D — Tutoring in Mathematics 1 Unit Non-Degree Credit (May be taken for option of letter grade or Credit/No Credit.) 18 hours lecture. Prerequisite: MATH 71 or MATH 72 or higher Tutoring in mathematics with an emphasis on strategies to promote active learning using manipulatives and dealing with specific obstacles in developmental algebra. WATER TECHNOLOGY WATE 60 — Introduction to Water Systems 3 Units 54 hours lecture. Degree Appropriate Water sources, hydrological cycle, pre-treatment, water mathematics, basic water chemistry, treatment plant processes, safety, disinfection, corrosion, bacteriology and the public health aspects of potable water. Distribution systems, wells, valves and pumps. Prepares the student for	teaches a student about the use of recycled water as outlined in Title 22 of the California Administrative Code. Prepares students who are otherwise qualified to take the AWWA Cross-Connection Specialist Certification Exam. WATR 65 — Water Hydraulics and Instrumentation 3 Unit: 54 hours lecture. Degree Appropriate <i>Advisory: WATR 60 taken prior</i> Practical water supply hydraulics and instrumentation, with emphasis on distribution system capacity, hydraulic analysis, pumping analysis, customer service lines and meters, automation, instrumentation and control, system maintenance and records. WELDING WELD 30 — Metal Sculpture 2 Unit: (May be taken two times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.)
regulations, contract and commercial law in aviation related businesses, property law for aircraft owners and airport operators, labor and employment law in aviation industries, international law and treaties that affect aviation. TUTOR TRAINING TUTR 10A — Introduction to Tutoring 1 Unit Non-Degree Credit (May be taken for option of letter grade or Credit/No Credit.) 18 hours lecture. <i>Prerequisite: Eligibility for ENGL 1A</i> Introduction to tutoring, with an emphasis on tutoring strategies,	Grade I and II State Water Treatment Operator Certification and Grade I AWWA Water Distribution Operator Certification. WATR 61 — Water Treatment 3 Units 54 hours lecture. Degree Appropriate Advisory: WATR 60 taken prior Emphasizes public health aspects of potable water supply, wells, process control procedures, chlorination systems, water softening, safety, review laboratory procedures, laboratory techniques and equipment, advanced water mathematics and State Health Department Title 22, Water Quality Standards. Prepares students for the Grade II and III State Water Treatment Operator Certification.	18 hours lecture. 54 hours lab. For students interested in art seeking the proper operation of welding processes related to the sculpting industry. Emphasizes the fundamentals of three-dimensional design. Includes demonstrations and exercises in welding as it relates to the art art industry. Students who repeat this course will improve skills through further instruction and practice. WELD 40 — Introduction to Welding 2 Unit 18 hours lecture. 54 hours lab. Equation of the areas of fabrication, Fundamentals of welding processes related to the areas of fabrication, Fundamentals of welding processes related to the areas of fabrication,
problem solving, and working with a diverse student population. TUTR 10B — Tutoring in the English Language 1 Unit Non-Degree Credit (May be taken for option of letter grade or Credit/No Credit.) 18 hours lecture. <i>Prerequisite: Eligibility for ENGL 1A</i>	WATR 62 — Water Distribution3 Units54 hours lecture.Degree AppropriateAdvisory: WATR 60 taken priorWater distribution systems operation, administration, safety, maintenance, introduction to Cross-connection Control Title 17. Prepares student for Grade II and III AWWA Distribution Operator Certification.	construction, machine tool, aerospace and the transportation industries WELD 50 — Oxyacetylene Welding 2 Uni 18 hours lecture. Degree Appropriat 54 hours lab. Oxyacetylene fusion welding, non-fusion welding and cutting. Develops understanding of and fundamental skills in modern welding practices.
Tutoring in the English language with an emphasis on approaches to working with students on written drafts and addressing the needs of non-native speakers. TUTR 10C — Tutoring as a Supplemental Instructor 1 Unit Non-Degree Credit (May be taken for option of letter grade or Credit/No Credit.) 18 hours lecture. <i>Prerequisite: Eligibility for ENGL 1A</i> Tutoring as a Supplemental Instructor with an emphasis on tutoring in the classroom and in small groups under the supervision of a designated instructor.	WATR 63 — Cross Connection Control – Certified Tester3 Units54 hours lecture.Degree AppropriateAdvisory: WATR 60 taken prior or concurrentlyOffers knowledge necessary to understand the operation of and testing procedures for backflow prevention assemblies. Analyzes Title 17 of the California Administrative Code and Chapter 6 of the Uniform Plumbing Code as they relate to cross-connection control. Prepares students for County Health Department and AWWA certification as Backflow Prevention Device Testers.WATR 64 — Cross Connection Control – Certified Specialist3 Units S4 hours lecture.S4 hours lecture.Degree Appropriate Advisory: WATR 60 taken priorOffers knowledge necessary to apply the principles of backflow prevention, as outlined in Title 17 of the California Administrative Code, to the administration of a cross-connection control program. Also	WELD 51 — Basic Electric Arc Welding2 Unit:18 hours lecture.Degree Appropriate54 hours lab.Advisory: WELD 50Basic electric arc welding, weld symbols, standard electrode and alloyelectrode selection, American Welding Society (A.W.S.) procedure forcertification.WELD 53A — Welding Metallurgy3 Unit:54 hours lecture.Degree Appropriate, CSUDesigned for students seeking a career in welding and weldinginspection. Covers structure of matter, chemical, physical, andmechanical properties of metals, principles of alloying, solid statediffusion, plastic deformation, and heat treatment.

Course Descriptions

WELD 60 — Print Reading and Computations for Welders 3 Units 54 hours lecture. Non-Degree Credit Reading prints and performing computations for welding fabrication operations. Interpreting and visualizing prints, title blocks, welding symbols, specifications, notes, and bills of materials. Computations necessary to calculate materials, costs, sizes, and fractional, decimal and metric conversions.	WELD 81 — Pipe and Tube Welding 3 Units (May be taken two times for credit.) Degree Appropriate 18 hours lecture. 108 hours lab. Advisory: WELD 70B, WELD 70C Advanced course designed to enable students with "all positions" welding skills in SMAW to apply welding skills to the pipe welding industry Welding skills to The pipe welding Image: Skills to the pipe welding	Provides actual on-the-job experience in welding at an approved work site which is related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. Students who repeat this course will improve skills through further instruction and practice. WELD 97 — Work Experience in Welding (May be taken four times for credit.) Degree Appropriate
WELD 70A — Beginning Arc Welding3 Units18 hours lecture.Degree Appropriate108 hours lab.Develops manipulative skills and techniques for the beginning studentwelder on the shield metal arc (SMAW) and the flux cored arc (FCAW)welding processes in the flat and horizontal positions using AC and DCwelding currents on carbon steel.	industry. Welding processes will include SMAW, GRAW, GMAW, FCAW on a variety of materials and configurations on subcritical and critical piping and tubing. Students who repeat this course will improve skills through further instruction and practice. WELD 90A — Gas Tungsten Arc Welding (May be taken two times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.)	 (May be taken for Credit/No Credit only.) 150 hours lab. Prerequisite: Compliance with work experience regulations as designated in the college catalog Advisory: WELD 70B Provides actual on-the-job experience in welding at an approved work site which is related to classroom instruction. A minimum of 75 paid or Comparison of Comparison of Comparison work is required for
WELD 70B — Intermediate Arc Welding 3 Units 18 hours lecture. Degree Appropriate 108 hours lab. Advisory: WELD 70A taken prior A continuation of Beginning Arc Welding (WELD 70A). Emphasis is on welding high alloy steel with both SMAW and FCAW processes in the	18 hours lecture. 108 hours lab. <i>Advisory: WELD 70B taken prior</i> Advanced level class in Gas Tungsten Arc Welding (GTAW, also known as TIG) of steel, aluminum, CRES and exotic metals. All position welds with many surfaces and transitions.	60 non-paid clock hours per semester of supervised work is required for each unit of credit. Students who repeat this course will improve skills through further instruction and practice. WELD 98 — Work Experience in Welding (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.) 205 hours lab
vertical and overhead positions. Designed to refine previously acquired welding skills. WELD 70C — Certification for Welders 3 Units 18 hours lecture. Degree Appropriate 108 hours lab. Advisory: WELD 70A taken prior Study of building construction for the advanced arc welding student. Special emphasis will be placed on welding symbols and the American Welding Society's (AWS) D1.1 and D1.3.	WELD 90B — Semiautomatic Arc Welding Process 3 Units (May be taken two times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 18 hours lecture. 108 hours lab. Advisory: WELD 70B taken prior An integrated review of Semiautomatic Welding Processes including Gas Metal Arc Welding (GMAW), Flux Cored Arc Welding (FCAW), Submerged Arc Welding (SAW) with solid and tubular wires with and without gas shielding. All position welds with many varying thickness will be covered.	 225 hours lab. Prerequisite: Compliance with work experience regulations as designated in the college catalog Advisory: WELD 70B Provides actual on-the-job experience in welding at an approved work site which is related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. Students who repeat this course will improve skills through further instruction and practice. WELD 99 — Work Experience in Welding 4 Units
WELD 80 — Fabrication and Construction Welding 3 Units (May be taken two times for credit.) Degree Appropriate 18 hours lecture. 108 hours lab. Advisory: WELD 40, WELD 51, WELD 70A Theory and practical applications of welding used in industry and construction. Designed to adapt and upgrade skills to industry standards. Includes project models such as ornamental iron gates and fences and material storage components. Students who repeat this course will improve skills through further instruction and practice.	WELD 91 — Automotive Welding, Cutting and Modification 3 Units Non-Degree Credit (May be taken for option of letter grade or Credit/No Credit.) 18 hours lecture. 108 hours lab. Advisory: WELD 70B taken prior Instruction in the art of welding and cutting on metals commonly used in the automotive industry. Gas Metal Arc (MIG), Gas Tungsten Arc (GTAW), PlasmaArc cutting and oxyfuel cutting and welding will be covered. WELD 96 — Work Experience in Welding (May be taken for Credit/No Credit only.) 1 Unit 75 hours lab. Prerequisite: Compliance with work experience regulations as designated in the college catalog Advisory: WELD 70B	 WELD 99 — Work Experience in Weiding 4 Units (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.) 300 hours lab. Prerequisite: Compliance with work experience regulations as designated in the college catalog Advisory: WELD 70B Provides actual on-the-job experience in welding at an approved work site which is related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. Students who repeat this course will improve skills through further instruction and practice.



COMMUNITY EDUCATION (ADULT EDUCATION) COURSES

Noncredit courses are designed to meet the special needs and capabilities of those students who do not desire or need to obtain college unit credit. These courses provide developmental, occupational and other general education opportunities. Courses and programs are further defined categorically under the California Education Code, Section 84711, whereby state funding is authorized for nine specific categories as follows: Parenting, Basic Skills (including tutoring), English as a Second Language, Citizenship, Programs for the Handicapped, Vocational Courses, Programs for the Older Adult, Home Economics, Health and Safety and additional courses gualified for adult education curricula.

Student Services

Admissions and Registration

For Community Education (noncredit) and Community Services (fee-based) offerings, admission and registration is completed using a registration card. However, enrollment in ESL and/or Basic Skills courses REQUIRES assessment and orientation prior to registration (see explanations, following). Students may register for most courses at any time during the semester, on a space available basis. Noncredit and fee-based offerings are available to community members regardless of residency status.

Assessment

Basic Skills students are assessed prior to enrolling in courses. Additional assessments are available for specific needs. Basic Skills assessment services include testing for academic skill levels, learning strengths, career paths and learning disabilities. For more information, contact (909) 594-5611, ext. 4845.

ESL students must be assessed prior to enrollment. Placement testing is offered every Thursday, year-round, Multilingual assistance is available. For more information, contact (909) 594-5611, ext. 5235.

Orientation

Basic Skills and ESL students must attend an orientation session prior to registration. Orientation sessions are generally offered immediately after assessment.

Counseling and Advisement

Educational advisement services are available in the Community Education Division office the Administration Building, building 4, room 221D, during the first week of registration and at the beginning of each semester for career and educational planning. These educational advisement services are also on-going throughout the semester through the Community Education Center. To schedule an individual appointment, students should call the Community Education Center. (909) 594-5611. ext. 4845.

The Basic Skills and ESL departments provide counselors and educational advisors to serve their students. Assistance to all noncredit students includes development of Educational and Career Plans, identification of personal, academic and career goals, career skill practice and resources, transitioning to credit programs, and assessment of special needs.

Fees and Expenses

There is no tuition for noncredit courses. However, some courses include a fee for materials provided to students. In addition, students who park on the Mt. San Antonio College campus must have a valid, current parking permit. Permits may be purchased in the Administration Building, Building 4, lower level. Books and supplies needed for a class are the responsibility of the student unless specifically noted as provided by a material fee.

Credit/Noncredit Combined Courses

The Division offers many credit classes to Community Education students for noncredit. Students may enroll in these classes in accordance with procedures outlined in the Community Education class schedule. Students will not receive college credit. However, students enrolled in these classes who wish to receive a certificate of completion are expected to complete all assignments including tests, guizzes, projects and examinations. (A list of Noncredit Certificate Programs is provided beginning on page 213 of this catalog.)

Students wishing to complete a noncredit certificate program in one of the occupational areas of study must apply to the Community Education Division office, the Administration Building, building 4, room 221 to initiate the issuance of a certificate. Certificate completion forms should be obtained from the Division office prior to the end of the first semester of classes.

Basic Skills and Special Programs

The Basic Skills and Special Programs department works with local K-12 districts, county and state agencies to provide programs to students with special and/or basic skills needs. Courses and services include:

- Basic Skills Remediation
- GED Preparation and Testing
- Adult High School Diploma Program
- High School Referral Program (*high school make-up credit*)
- Summer High School Program
- Athlete Tutoring and Student Support (WIN Program)
- Parent Education Courses
- Armed Services Vocational Aptitude Battery (ASVAB) Preparation
- Support Services to Careers in Childcare Program Students

- High School and Career Counseling; Educational Advising
- Computer Literacy and Keyboarding Classes
- Typing Test Certification

For more information on Basic Skills and Special Programs, contact (909) 594-5611, ext 4845.

English as a Second Language

ESL classes are provided for English language learners at all levels of proficiency, from low literacy to advanced, transitioning to credit. Classes and services include:

- Assessment for level placement (*Pre-Level 1 Level 6*)
- Core level classes focusing on integrated skills (grammar, listening, speaking, reading and writing)
- Skill-focused classes (Speaking A-C, Writing A-C)
- Specialized courses (*TOEFL preparation*, *Citizenship preparation*)
- Vocational ESL (*Careers in Business and Careers in Health*)
- Contract ESL customized for the workplace
- Career guidance and counseling

For more information on ESL programs located in the Language Center, Building 66, contact (909) 594-5611, ext. 5235.

Lanauaae Learnina Center

Mt. San Antonio College's Language Learning Center (LLC) provides a laboratory in which students may practice ESL and a variety of foreign languages, including Chinese, English, French, German, Italian, Japanese, Spanish and Sign Language. Located in the Learning Technology Center, building 6, room 264, the LLC is available on a noncredit and credit basis. Users of the LLC may register year-round. Offerings include:

- Interactive language software in all supported languages
- DVD's, videos, audio recordings
- Pronunciation software
- Computer Aided Testing for Federal Aviation Administration and Chiropractic tests

For more information on the LLC, contact (909) 594-5611, ext. 4580.

Exercise Science and Wellness Center

The Exercise Science and Wellness Center provides an exercise facility which includes cardio and strengthening equipment, a variety of exercise classes led by certified instructors and specialized fitness testing. It welcomes community members as well as Mt. San Antonio College students and employees. Individuals can register in the Community Education Registration office in the Administration Building, building 4, room 221D, or in the Wellness Center. For more information, contact (909) 594-5611, ext. 4625.

Community Health Programs and CPR

The College offers courses such as First Aid, Heartsaver, AED and more.

- Records rosters and information updates per American Heart Association (AHA) requirements
- Provides videos, texts and manikins per AHA requirements

For more information, contact (909) 594-5611, ext. 4838.

Health Careers Resource Center (HCRC)

The Center provides the resources to increase student knowledge base, to learn new skills and to reinforce previously learned skills. Resources are provided to anyone involved or interested in health occupations. The HCRC provides a state-of-the-art learning lab environment to:

- develop new health related skills/knowledge
- update prior or current knowledge
- participate in simulated clinical activities which will promote success in the health care industry.

The center is open to credit and noncredit health career students, community health care workers/professionals, individuals preparing for health related licensure or certification exams and any individual involved or interested in health related careers. Some of the campus programs/departments actively utilizing the center include:

- Technology and Health Division
- Medical Services EMT, Paramedic, PA Prep
- Mental Health Technology
- Nursing
- Radiologic Technology
- Respiratory Therapy
- Community and Non-Credit Education Division
- Long-Term and Acute Certified Nursing Assistant (C.N.A.)
- RN Re-entry Into Practice
- IV Therapy, CPR
- Health Care Interpreting
- International Health Worker
- Physical Therapy Aide

Health Careers Resource Center Available Services

- RN assistance in clinical skills practice and performance evaluation
- Medical and hospital equipment/supplies/ manikins/ training aides for hands on demonstrations and application of basic, intermediate and advanced skills
- Health Skills Performance Update/ Evaluation
- Clinical simulations for Med-Surg, Psych, OB, Peds, Perioperative etc.

Self-Paced, Multisensory Learning Aides

- Expansive Technology Library on all health subjects
- Medical/Nursing resource books, journals
- ADAM programs for anatomy and physiology review
- Mock computer adaptive testing programs for NCLEX- RN and PN State Board Exam preparation
- Computer adaptive instruction for gaining or remediating math, pharmacology, dosage calculation skills or medication administration skills
- Internet access for searching full-text article databases and access lists of pre-evaluated web sites on all lab computers
- Computerized virtual clinical simulation programs
- Medical terminology and bilingual media for International learners

Older Adult Program*

Courses designed for older adults (*age 55+ years*) provide the full continuum of education from vocational classes to the pursuit of long-standing educational goals. Classes are offered in the arts, personal growth, physical and mental fitness and vocational areas, and are conducted both on campus and at various senior and community centers and residential facilities throughout the Mt. San Antonio College District.

Mountie Volunteer Program (MVP)

The MVP Program coordinates and provides volunteer opportunities on campus while providing training and support services for MVP participants. Partnering with the Retired Senior Volunteer Program (RSVP) of the greater Pomona Valley, the program provides for the recruiting and screening of potential volunteers.

Generations Program

The Generations Program provides educational activities which foster intergenerational relationships that link generations for the good of society, such as student athletes providing volunteer hours for the Older Adult Program.

For more information on Older Adult Programs, please call (909) 594-5611, ext. 4192.

The Training Source

The Training Source provides on-site, customized, short-term training courses for businesses, K-12 school districts, cities and agencies in the greater Los Angeles and Inland Empire areas. Programs are designed to meet specific client needs and are taught by college faculty members as well as industry professionals. For more information, contact (909) 468-3933.

Other Community Education Services and Programs

- Fee-based programs related to career development and personal enrichment for community members
- College 4 Kids and Youth Programs
- CPR and First Aid
- Vehicle Safety Programs (Motorcycle, Traffic School, Driver's Training)
- Community Education Fitness Programs
- Farm Tours
- Wildlife Sanctuary Tours
- Planetarium Shows
- Study Skills Laboratory for Disabled Students Programs and Services
- San Gabriel Valley Training Center (serving developmentally disabled adults)

For more information regarding Community Education Services and Programs, contact (909) 594-5611, ext. 4220.

NONCREDIT LIST OF CERTIFICATES

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CERTIFICATES OF COMPETENCY

Noncredit Certificates of Competency represent sequences of courses in Basic Skills, Career Development, English as a Second Language or Secondary Education, which allow the student to develop individual competencies based on their personal educational goals and objectives. Each certificate is unique, but all provide the student an opportunity to gain skills necessary to advance in their careers or transition into a new career or prepare for future advanced academic studies and training.

Students are encouraged to gain more information by calling the College telephone number listed in each of the four specific Certificates of Competency that follow.

Basic Skills SYS #102892

The Basic Skills Certificate of Competency provides courses and training in skills that will improve opportunities for students to obtain employment, advance in their careers or prepare for future advanced academic studies. Students will increase basic skills, i.e., reading, writing, math and computer skills, and progress in this sequence based on individual needs. Courses are offered days and evenings to accommodate work and personal schedules. For more information, please call (909) 594-5611, ext. 4845.

Certificate Requirements:

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Course ID	Course Title	
BCSK ABE02	Adult Basic Education	
BCSK ABE06	Basic Skills Foundation	
BCSK LERN06	Personal Computer Applications	
BCSK LERN01	Short-Term Review	
BCSK LERN03	Math Skills Review	
BCSK LERN72	Reading Acceleration	
BCSK LERN76	Improving Reading Comprehension	
BCSK LERN81	Improving Writing	
BCSK MATH01	Developmental Mathematics Concepts	
	and Applications	
BCSK WRTRE2	Basic Writing Skills Development	

Career Development SYS #244852

Career development provides students with information and guidance on college opportunities, careers and life planning. Students can apply skills gained to their current employment and personal lives and will improve their opportunities to advance in their careers or transition into a new career.

This sequence of courses is offered days and evenings to accommodate adults with alternating schedules. For more information, please call (909) 594-5611, ext. 4845.

Certificate Reauirements: Course Title Course ID

BCSK A

BCSK C

עו	Course litle
BE01	Career Information and Guidance
BE02	Adult Basic Education
BE03	Adult Basic Education – Leadership Development
BE04	Guidance and Orientation to Specia Programs
BE05	Career Development
BE06	Basic Skills Foundation
BE07	Re-Entry Work Skills Needed for Today's Workforce
NSL05	Career/Life Planning

English as a Second Language SYS #784025

ESL students are placed within the following sequence of courses according to their English abilities. Students progress through this sequence based on individual need before transferring into credit courses or employment. Supplemental courses in speaking, writing and vocational language will assist their progress through the sequence and may be taken along with level classes as needed.

Courses are offered all year long, including winter and summer intersessions. Classes are offered days, evenings and weekends. For more information, please call (909) 594-5611, ext. 5235.

Certificate Requirements:

Course ID	Course Title
ESL PLVL-1	ESL – Pre-Level 1
ESL LVL-1	ESL – Level 1
ESL LVL-2	ESL – Level 2
ESL LVL-3	ESL – Level 3
ESL LVL-4	ESL – Level 4
ESL LVL-5	ESL – Level 5
ESL LVL-6	ESL – Level 6
ESL SPK-A	ESL — Speaking A
ESL SPK-B	ESL — Speaking B
ESL SPK-C	ESL — Speaking C
ESL TOEFL	TOEFL Preparation
ESL WRTE-A	ESL Writing A
ESL WRTE-B	ESL Writing B
ESL WRTE-C	ESL Writing C
ESL LANG03	English for Special Uses
BCSK LANG01	Language Skills Laboratory

-HLTH	English as a Second Language for
	Health Professionals

Secondary Education SYS #259121

ESL V

The High School Program provides all courses needed to satisfy requirements for a high school diploma. Students earning a high school diploma increase future employment and educational opportunities, including college and training programs. Completion of these courses will provide the student with a high school diploma. For more information, please call (909) 594-5611, ext. 4845.

Certificate Requirements:

Certificate Requirements:			
Course ID	Course Title		
BCSK HSALG1	High School Algebra 1		
BCSK HSALG2	High School Algebra 2		
BCSK HSART1	High School Art and Creative Expression		
BCSK HSART2	High School Art 2		
BCSK HSBIO	High School Biology		
BCSK HSCHEM	High School Chemistry		
BCSK HSCHN1	High School Chinese 1		
BCSK HSCIV	High School Civics/American Government		
BCSK HSCPTC	High School Computer Technology		
BCSK HSDIPR	High School Diploma and Referral		
BCSK HSECON	High School Economics		
BCSK HSEELA	High School CAHSEE Prep — English		
	Language Arts		
BCSK HSEEMA	High School CAHSEE Prep – Mathematics		
BCSK HSENG1	High School English 1		
BCSK HSENG2	High School English 2		
BCSK HSENG3	High School English 3		
BCSK HSENG4	High School English 4		
BCSK HSGEOG	High School Geography		
BCSK HSGEOM	High School Geometry		
BCSK HSGRAP	High School Advanced Graphics/Printing		
BCSK HSHLTH	High School Health		
BCSK HSJOUR	High School Journalism		
BCSK HSKEY	High School Typing/Keyboarding		
BCSK HSLSC	High School Life Science		
BCSK HSMTH2	High School General Math		
BCSK HSMUSC	High School Music Appreciation		
BCSK HSPHIL	High School Philosophy		
BCSK HSPHSC	High School Physical Science		
BCSK HSPLNG	High School Planning and Guidance		
BCSK HSPREA	High School Pre-Algebra		
BCSK HSPSY	High School Psychology		
BCSK HSSK	High School Study Skills		
BCSK HSSS	High School Single Survival		

BCSK HSSOC High School Sociology BCSK HSSPN1 High School Spanish 1 BCSK HSSPN2 **High School Spanish 2** BCSK HSSTG **High School Stagecrafts** BCSK HSUSHS High School United States History BCSK HSVDEO High School Video and Media Production BCSK HSWHS High School World History

CERTIFICATES IN OCCUPATIONAL TRAINING

California Community College Adult Education Programs are authorized to offer short-term vocational programs with high employment potential. The demonstration of need to offer these programs within the College service area is determined by manpower needs projections from the California Occupational Information System (COTS), or surveys of employer needs in the community, or state licensing mandates and/or certification.

What Are Occupational Training Certificates?

Certificates in a variety of vocational programs are available through the Community Education Division. Many of these certificate programs mirror those offered through the credit programs of the College, are favorably recognized by business and industry, and are frequently used as a requirement for professional advancement. Classes taken are noncredit, and do not generate college units toward a degree. The Community Education Division also offers fee-based Certificate Programs. These include:

- Accounting/Bookkeeping
- **CPR and First Aid**
- Medical Insurance Billing Specialist

Specific certificate content and more information can be found in the Community Services Schedule of Classes each semester or contact (909) 594-5611, ext. 4220.

How to Finish an Occupational Certificate

In order for students to receive a Certificate of Completion, the student must do the following:

- Obtain the appropriate Certificate Application Form from the Community Education Division Office, Administration Building (Building 4), Room 221.
- Register and pay material fees if required for desired classes
- Attend a minimum of 75% of required class hours
- Satisfactorily complete coursework, papers and projects, take and pass mid-terms and final with the equivalent of a "C" grade
- Obtain instructor signature upon completion of each class

When all courses are completed, submit signed form to the Community Education Office

If any courses for a noncredit certificate program have been taken for college credit, students must obtain the signature of the appropriate credit Division Dean prior to submitting the Certificate Application Form to the Community Education Division office for processing.

Attendance and signatures will be verified by the Community Education Division staff. If all requirements are met, a Certificate of Completion will be prepared and delivered to the student.

Getting Help

For more information regarding occupational training certificates, please call the Division office at (909) 594-5611, ext. 4220.

Educational Advisers are available to assist students with Career and Education Planning. During the first week of registration, they are available in the registration area, the Administration Building, building 4, room 221D. Times will be posted and students served on a first-come, firstserved basis. Advisers are also available by appointment during the semester. Please call (909) 594-5611, ext. 4845 to schedule an appointment.

OCCUPATIONAL – ACCOUNTING

Accounting – Bookkeeping SYS #538161

The Bookkeeping Certificate provides the student with the basic skills and knowledge for entry-level positions within the clerical/accounting field. Common duties performed in this field are posting transactions to journals/ledgers, accounts receivable, accounts payable, inventory tracking/reporting, bank reconciliation, expense reporting and account analysis. The sequence can be completed in one year, and courses are offered Fall and Spring semesters.

Certificate Requirements:

Course ID	Course Title	Hours
VOC BSA7	Principles of Accounting – Financial, <u>or</u>	90
VOC BSA72	Bookkeeping – Accounting	90
VOC BSA53	Ten-Key Calculations	36
VOC BSO05	Business English, <u>or</u>	54
VOC BSO25	Business Communications	54
	Total Hours	324

Accounting – Computerized SYS #962408

The Computerized Accounting Certificate provides the student with basic accounting skills and knowledge together with additional training in computer applications common to the accounting industry. This certificate prepares the student for an entry-level position as a computerized accounting clerk. Common duties performed in this field are utilization of accounting software programs for posting transactions to journals/ledgers, accounts receivable, accounts payable, inventory tracking/reporting, bank reconciliation, expense reporting and account analysis. If the student did not have previous coursework, the sequence can be completed in one year, and students have several choices of courses to select for desired emphasis.

Certificate Requirements:

Completion of Accounting – Bookkeeping Certificate (234 hours)

Course ID	Course Title	Hours
VOC BSA75	Using Microcomputers in Financial Accounting	18
VOC BSA76	Using Microcomputers in Managerial Accounting	18
VOC CISB15	Microcomputer Applications	72
VOC CP11	Internet Research for Business	36
VOC CP20	Microsoft Word	72
	Total Hours	216

Accounting – Payroll SYS #597867

The Payroll Certificate combines basic accounting skills with specialized training in payroll preparing the student for entry-level positions within the payroll segment of accounting. Common duties performed in this field include payroll tax reporting, maintenance of payroll accounting systems and posting payroll transactions to journals/ ledgers. The sequence could be completed in one semester. Courses are offered both Fall and Spring semesters. **Certificate Requirements:**

Completion of Accounting – Bookkeeping Certificate (234 hours)

Course Title

Course ID	Course Title
VOC BSA70	Payroll and Tax Accounting
VOC BSA 75	Using Microcomputers in Financial Accounting, <u>or</u>
VOC BSA76	Using Microcomputers in Managerial Accounting
	Total Hours

OCCUPATIONAL – AGRICULTURAL SCIENCE

Floral Design SYS #132282

This sequence is offered in the evening only on campus and at off-campus locations and can be completed in two years. Students completing all three courses will have skills and knowledge to seek jobs in floral design beyond entry-level positions, i.e., first-line supervision and/or management and Floral Designers.

Certificate Requirements:

Course ID	Course Title	Hours
VOC AGOR 25	Floral Design — 1	90
VOC AGOR26	Floral Design – 2	90
VOC AGOR26	Floral Design – 3	90
	Total Hours	270

Hours **Horse Ranch Management** 18 SYS #391289

This sequence of courses is designed to enable students to prepare for a career in horse ranch management. Courses provide students hands-on experience designed to give them a combination of practical skills and technical knowledge. The sequence can be completed in one year if taken full-time.

Certificate Requirements: Со

90

Course ID	Course Title	Hours
VOC AGAN02	Animal Nutrition	54
VOC AGAN 94	Animal Breeding	54
VOC AGLI16	Horse Production, <u>or</u>	72
VOC AGLI18	Horse Ranch Management	72
VOC AGLI19	Horse Hoof Care	36
VOC AGLI96	Animal Sanitation and Disease Control	54
VOC AGLI97	Artificial Insemination of Livestock	36
	Total Hours	324

Interior Landscaping SYS #118137

Hours This certificate is designed to give students basic skills in 54 the design, installation and maintenance of interior plants 18 that are used in residences, offices, hotels, malls, restaurants and other locations. The sequence of courses can be 18 completed in one year and is offered on an annual basis.

Certificate Requ	uirements:	
Course ID	Course Title	Hours
VOC AGOR01	Horticultural Science	54
VOC AGOR13	Landscape Design	54
VOC AGOR15	Interior Landscaping	54
VOC AGOR24	Integrated Pest Management	54
VOC AGOR29	Ornamental Plants – Herbaceous	54
VOC AGOR32	Landscaping and Nursery	54
	Management	
VOC AGOR62	Landscape Irrigation –	54
	Design and Installation	
VOC AGOR64	Landscape Irrigation –	54
	Drip and Low Volume	
	Total Hours	432

Landscape and Park Maintenance 90 SYS #621629 270

This certificate is designed to give students basic skills in park landscape maintenance. The sequence can be completed in four semesters. Courses are offered annually, and prepare the student with skills that are appropriate for the maintenance of grounds, property or parks.

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Certificate Requ	uirements:	
Course ID	Course Title	Hours
VOC AGOR01	Horticultural Science	54
VOC AGOR 24	Integrated Pest Management	54
VOC AGOR29	Ornamental Plants – Herbaceous	54
VOC AGOR30	Ornamental Plants – Trees and Woody Shrubs	54
VOC AGOR39	Turf Grass Production and Management	54
VOC AGOR40	Sports Turf Management	54
VOC AGOR51	Tractor and Landscape Equipment Operations	54
VOC AGOR62	Landscape Irrigation — Design and Installation	54
VOC AGOR63	Landscape Irrigation System Management	54
VOC AGOR71	Landscape Construction Fundamentals	54
	Total Hours	540

Landscar	be Design and Construc	tion	Landscar	e Irrigation		VOC AGLI96	Animal Sanitation and Disease Control	54	Certificate Req		
SYS #91961		uon	SYS #32764	-					Course ID VOC AGOR01	Course Title	Hours
	-	ille			e chille in		ourses from the following:			Horticultural Science	54 E 4
	is designed to give students basic sl ployment with a landscape contracto			is designed to give students basi In, repair installation, water mana		VOC AGOR71	Landscape Construction	54	VOC AGOR04 VOC AGOR05	Park Management Park Facilities	54
	be completed in one year, and emplo			noting. It can be completed in one		VOCDENDO	Fundamentals	54	VOC AGOROS		54
	ry good. Courses are offered both Fal			e offered Fall and Spring semeste		VOC BSM20	Principles of Business	54		Integrated Pest Management Ornamental Plants — Trees and	54 54
	ers. Some courses will provide transfe			ful with landscape contractors, scl		VOC BSM66	Small Business Management	54	VOC AGOR30	Woody Shrubs	54
articulation wi	th colleges and universities offering	а	parks and citie			VOC BSS35	Professional Selling	54	VOC AGOR39	Turf Grass Production and	54
Bachelor of Sci	ience Degree in Horticulture.		Certificate Reg	uirements:		VOC BSS36	Principles of Marketing	54	Toendonsy	Management	51
Certificate Req	quirements:		Course ID	Course Title	Hours		Total Hours	630	VOC AGOR51	Tractor and Landscape	54
Course ID	Course Title	Hours	VOC AGOR01	Horticultural Science	54					Equipment Operations	
VOC AGOR01	Horticultural Science	54	VOC AGOR13	Landscape Design	54	-	Management		VOC AGOR62	Landscape Irrigation – Design	54
VOC AGOR13	Landscape Design	54	VOC AGOR39	Turf Grass Production and	54	SYS #70386	8			and Installation	
VOC AGOR29	Ornamental Plants – Herbaceous	54		Management			is designed to give students basic		VOC AGOR63	Landscape Irrigation System	54
VOC AGOR30	Ornamental Plants – Trees and	54	VOC AGOR50	Soil Science and Management	54		d marketing of plants and dry good		1000 1000000	Management	
	Woody Shrubs		VOC AGOR51	Tractor and landscape	54		retail nursery industry. The sequen		VOC AGOR75	Urban Arboriculture	54
VOC AGOR50	Soil Science and Management	54		Equipment Operations			annual basis and can be completed	in		Total Hours	540
VOC AGOR51	Tractor and Landscape	54	VOC AGOR62	Landscape Irrigation – Design	54	one year.					
	Equipment Operations	F 4	VOC AGOR63	and Installation	E A	Certificate Req			Pet Scien	ce	
VOC AGOR62	Landscape Irrigation – Design and Installation	54	VUC AGUR03	Landscape Irrigation System Management	54	Course ID	Course Title	Hours	SYS #52555	6	
VOC AGOR71	Landscape Construction	54	VOC AGOR64	Landscape Irrigation – Drip and	1 54	VOC AGOR01	Horticultural Science	54	This certificate	is designed to enable students to	enter
VOC AGOIN/ I	Fundamentals	JT	VOC AGONO4	Low Volume	л _Э ң	VOC AGOR02	Plant Propagation/	54		holesale pet industry. Most of the o	
VOC AGOR72	Landscape Hardscape Applications	54	VOC AGOR71	Landscape Construction	54	VOC AGOR24	Greenhouse Management	54		te are offered every Fall and Sprin	
	Total Hours			Fundamentals		VOC AGOR24 VOC AGOR29	Integrated Pest Management Ornamental Plants — Herbaceous	54 54		of the courses are offered in the ev	
	Iotal Hours	486		Total Hours	486	VOC AGOR29 VOC AGOR30	Ornamental Plants – Trees and	54		otated over four semesters. Thus, th	16
						VUC AGUNSU	Woody Shrubs	54		be completed in two years.	
SYS #87561	pe Equipment Technolo	gy	Livestock	Management		VOC AGOR32	Landscaping and Nursery	54	Certificate Req		
			SYS #53359				Management		Course ID	Course Title	Hours
	is designed to give students basic skills			is designed to give students basi	ic chille in	VOC AGOR39	Turf Grass Production and	54	VOC AGAN01	Animal Science	54
	n equipment repair, golf courses, rental pment repair shops. The sequence is off			gement for employment opportu			Management		VOC AGANO2	Animal Nutrition	54
	s and can be completed in two years.			and agriculture sales and services		VOC AGOR62	Landscape Irrigation – Design	54	VOC AGAN51	Animal Handling and Restraint	54
				fered on an annual basis and can			and Installation		VOC AGAN94	Animal Breeding	54
<i>Certificate Req</i> Course ID	<i>Course Title</i>		completed in t			VOC AGOR64	Landscape Irrigation – Drip and	54	VOC AGLI96	Animal Sanitation and Disease Control	54
VOC AGOR01	Horticultural Science	Hours 54	Certificate Reg	uirements:			Low Volume		VOC AGPE70	Pet Shop Management	54
VOC AGOROT	Tractor and Landscape	54	Course ID	Course Title	Hours		Total Hours	684	VOC AGE 270	Canine Management	54
VUC AGOID I	Equipment Operations	74	VOC AGAG01	Food Production, Land	54				VOC AGPE72	Feline Management	54
VOC AGOR52	Hydraulics	54		Use and Politics – a Global		Park Man	agement		VOC AGPE73	Tropical and Coldwater	54
VOC AGOR53	Small Engine Repair I	54		Perspective		SYS #31492	0		Voc / di E/ S	Fish Management	51
VOC AGOR55	Diesel Engine Repair	54	VOC AGAN01	Animal Science	54	This certificate	is designed to enable students to	prepare	VOC AGP374	Reptile Management	54
VOC AGOR56	Engine Diagnostics	54	VOC AGAN02	Animal Nutrition	54		park management, and provides st		VOC AGPE76	Aviculture – Cage and Aviary Bird	ds 54
VOC AGOR57	Power Train Repair	54	VOC AGAN94	Animal Breeding	54		experience, designed to give them		VOC BSM66	Small Business Management	54
VOC AGOR71	Landscape Construction	54	VOC AGLI14	Swine Production	54		f practical skills and technical know			Total Hours	648
	Fundamentals		VOC AGLI16	Horse Production	54		of courses is offered on an annual b	pasis and			040
VOC AGOR72	Landscape Hardscape Applications	54	VOC AGLI17	Sheep Production	54	can be comple	ted in one year.				
	Total Hours	495	VOC AGLI30	Beef Production	54						
			VOC AGLI34	Livestock Judging and Selection	n 36						
			1			1			1		

Sports Turf Management SYS #332420

This certificate is designed to provide skills required for students interested in employment at golf courses, race tracks, athletic fields and stadiums, and other high-use turf areas. The sequence can be completed in one year and is offered on an annual basis.

Certificate Requirements:

Course ID	Course Title	Hours
VOC AGOR01	Horticultural Science	54
VOC AGOR24	Integrated Pest Management	54
VOC AGOR30	Ornamental Plants – Trees and Woody Shrubs	54
VOC AGOR39	Turf Grass Production and Management	54
VOC AGOR40	Sports Turf Management	54
VOC AGOR50	Soil Science and management	54
VOC AGOR51	Tractor and Landscape Equipment Operations	54
VOC AGOR62	Landscape Irrigation – Design and Installation	54
VOC AGOR63	Landscape Irrigation Systems Management	54
	Total Hours	486

Tree Care and Maintenance SYS #182769

This certificate is designed to give students basic skills in the repair and maintenance of trees. The sequence can be completed in one year and the courses are offered on an annual basis.

Certificate Requirements:

Course ID	Course Title	Hours
VOC AGOR01	Horticultural Science	54
VOC AGOR24	Integrated Pest Management	54
VOC AGOR30	Ornamental Plants – Trees and Woody Shrubs	54
VOC AGOR32	Landscape and Nursery Management	54
VOC AGOR50	Soil Science and Management	54
VOC AGOR51	Tractor and Landscape Equipment Operations	54
VOC AGOR53	Small Engine Repair 1	54
VOC AGOR75	Urban Aboriculture	54
	Total Hours	432

OCCUPATIONAL – BUSINESS MANAGEMENT

Business Management – Level 1 SYS #818545

The Business Management – Level 1 Certificate is designed to introduce the student to the role of management in business. Students will be exposed to the terms, trends, organizational structure, and opportunities inherent in business management. The Department has sequenced courses to maximize student time, and there are four emphasis areas: Business Management, Human Resource Management, International Business or Small Business Management. Courses are offered on an annual basis, and each level of the Business Management emphasis can be completed in one semester. **Certificate Requirements:** Col Hours

Course ID	Course Title	Hours
VOC BSM20	Principles of Business	54
VOC BSM61	Business Organization and Management	54
VOC BSS36	Principles of Marketing	54
	Total Hours	162

Business Management – Level 2 SYS #245391

The Business Management – Level 2 Certificate builds upon the Level 1 certificate to provide students with proven business tools that will enhance their management careers. Students will be exposed to projects and business simulations that will lead to measurable success. The Department has sequenced courses to maximize student time, and there are four emphasis areas: Business Management, Human Resource Management, International Business or Small Business Management, Courses are offered on an annual basis, and each level of Business Management emphasis can be completed in one semester.

Certificate Requirements: Completion of Business Management – Level I (162 hours) **Course Title** Course ID Hours 54 VOC BSM60 Human Relations in Business 54 54 VOC BSM62 Human Resource Management 54 72 VOC CISB15 Microcomputer Applications 54 54 **Total Hours** 180

Business Management – Level 3 SYS #965642

Upon completion of the Business Management – Level 3 Certificate, students will have built a foundation of management strategies and practices which will enable them to prosper in an ever-changing business environment. The Department has sequenced courses to maximize student time, and there are four emphasis areas: Business Management, Human Resource Management, International Business or Small Business Management. Courses are offered on an annual basis, and each level of Business Management emphasis can be completed in one semester.

Certificate Requirements:

Completion of:

Business Management – Level 1 (162 hours) Business Management – Level 2 (180 hours)

PLUS the following:

VOC BSA07	Principles of Accounting – Financial	90
VOC BSM10	Principles of Continuous Quality	54
	Improvement	
VOC BSM51	Principles of International Business	54
	Total Hours	198

Human Resource Management SYS #152977

This introductory certificate exposes students to the business world and the role of human resources. Students become familiar with various approaches to business organization and the strategic nature of human resources. The Department has sequenced courses to maximize student time, and there are four emphasis areas: Business Management, Human Resource Management, International Business or Small Business Management. Courses are offered on an annual basis, and the Human Resource Management Certificate can be completed in one semester.

Certificate Requirements:

certificate requirements.		
Course ID	Course Title	Hours
VOC BSM20	Principles of Business	54
VOC BSM61	Business Organization and Management	54
VOC BSM62	Human Resource Management	54
	Total Hours	162

International Business – Level 1 SYS # 665499

This specialized business certificate is intended to prepare the student to work in the unique and dynamic environment of international business. The program also prepares the student as a business management generalist for companies conducting international trade. The Department has sequenced courses to maximize student time, and there are four emphasis areas: Business Management, Human Resource Management, International Business or Small Business Management. Courses are offered on an annual basis, and each level of International Business emphasis can be completed in one semester.

Certificate Requirements:

Course ID	Course Title	Hours
VOC BSM20	Principles of Business	54
VOC BSM51	Principles of International Business	54
VOC BSS36	Principles of Marketing	54
	Total Hours	162

International Business – Level 2 SYS #745751

In the International Business – Level 2 Certificate, the student will learn methods and approaches to managing the complexities of doing business in an international environment. Students acquire both theoretical knowledge and practical skills related to managing and marketing within the global arena. The Department has sequenced courses to maximize student time, and there are four emphasis areas: Business Management, Human Resource Management, International Business or Small Business Management. Courses are offered on an annual basis, and each level of International Business emphasis can be completed in one semester.

Certificate Requirements:

Course ID	Course Title	Hours
VOC BSM61	Business Organization and Management	54
VOC BSM66	Small Business Management	54
VOC BSS70	International Marketing Concepts	54
	Total Hours	162

Small Business Management -Level 1 SYS #563137

Small business has been described as the engine of change within the economy. The Small Business Management - Level 1 Certificate exposes the student to the fundamentals of managing and planning a small business. The Department has sequenced courses to maximize student time, and there are four emphasis areas: Business Management, Human Resource Management, International Business or Small Business Management. Courses are offered on an annual basis, and each level of Small Business Management emphasis can be completed in one semester.

Certificate Requirements:

Course ID	Course Title
VOC BSM20	Principles of Business
VOC BSM66	Small Business Management
VOC BSS36	Principles of Marketing
	Total Hours

Small Business Management -Level 2 SYS #2511547

The Small Business Management – Level 2 Certificate provides students with practical small business tools. It focuses on issues such as motivation, teamwork and leadership skills that lead to enhanced productivity through the development of people. The Department has sequenced courses to maximize student time, and there are four emphasis areas: Business Management, Human Resource Management, International Business or Small Business Management. Courses are offered on an annual basis, and each level of Small Business Management emphasis can be completed in one semester.

Certificate Requirements:

Completion of Small Business Management – Level 1 (162 hours)

Course ID	Course Title	Hours
VOC BSM60	Human Relations in Business	54
VOC BSM61	Business Organization and Management	54
VOC BSM62	Human Resource Management	54
	Total Hours	162

Small Business Management -Level 3

SYS #Pending

Upon completion of the Small Business Management -Level 3 Certificate, the student will have built a foundation of management strategies and practices which enable them to prosper in an ever-changing small business environment. The Department has sequenced courses to maximize student time, and there are four emphasis areas: Business Management, Human Resource Management, International Business or Small Business Management. Courses are offered on an annual basis, and each level of Small Business Management emphasis can be completed in one semester.

Certificate Requirements:

Completion of: Small Business Management – Level 1 (162 hours) Small Business Management – Level 2 (162 hours)

PLUS the following:

Hours

54

54

54

162

Course ID	Course Title	Hours	Course
VOC BSA7	Principles of Accounting — Financial	90	VOC EL
VOC BSM10	Principles of Continuous Quality Improvement	54	VOC EL
VOC CISB15	Microcomputer Applications	72	VOC EL VOC EL VOC EL
	Total Hours	216	VOC EL
			VOC EL

OCCUPATIONAL – ELECTRONICS

Computer and Networking Technology – Level I SYS #531657

This certificate is intended to prepare students to enter the computer and networking fields as service technicians with foundations in basic electronics, telecommunications, computer servicing and networking servicing. This sequence is offered annually and can be completed in two years. Students are guided by written information regarding term offerings and correct course selection.

Certificate Requirements:

Course ID	Course Title
VOC CNET50	PC Servicing
VOC CNET52	PC Operating Systems
VOC CNET54	PC Troubleshooting
VOC CNET60	A+ Certification Preparation
VOC EL11	Technical Applications in Microcomputers, <u>or</u>

VOC CISB15	Microcomputer Applications	72
VOC EL50A	Electronics Theory	36
VOC EL50AL	Electronics Laboratory	18
VOC EL50B	Electronics Theory	36
VOC EL50BL	Electronics Laboratory	18
VOC EL56	Digital Electronics	54
VOC EL56L	Digital Electronics Laboratory	18
	Total Hours	576

Computer Systems Technology SYS #622137

The Computer Systems Technology curriculum encompasses advanced coursework in computer systems circuitry. This includes microprocessor programming codes and microprocessor interfacing circuits. This sequence is offered annually and can be completed in two years. Students are guided by written information regarding term offerings and correct course selection.

Hours

54

36

36

18

36

18

54

18

54

18

36

54

18

36

36

522

Certificate Requirements:

Course ID	Course Title
VOC EL11	Technical Applications in
	Microcomputers
VOC EL12	Computer Simulation and
	Troubleshooting
VOC EL50A	Electronics Theory
VOC EL50AL	Electronics Laboratory
VOC EL50B	Electronics Theory
VOC EL50BL	Electronics Laboratory
VOC EL51	Electronic Devices Theory
VOC EL51L	Electronic Devices Laboratory
VOC EL56	Digital Electronics
VOC EL56L	Digital Electronics Laboratory
VOC EL61	Electronics Assembly and
	Fabrication
VOC EL74	Microprocessor Systems
VOC EL74L	Microprocessor Systems Laboratory
VOC ELM65A	Mathematics of Electronics
VOC ELM65B	Mathematics of Electronics
	Total Hours

Electronic Assembly and Fabrication SYS #Pending

Hours

72

72

72

54

54

This certificate prepares students to enter the electronics field as assembly and fabrication technicians. The sequence is offered on an annual basis and can be completed in one year.

Certificate Requirements:			
Course ID	Course Title	Hours	
VOC EL50A	Electronics Theory	36	
VOC EL50AL	Electronics Theory Lab	18	
VOC EL50B	Electronics Theory	36	
VOC EL50BL	Electronics Theory Lab	18	
VOC EST50	Electronics Fundamentals for Cable Installers	108	
VOC EL61	Electronic Assembly and Fabrication	72	
VOC EL62	Advanced Surface Mount Assembly and Rework	72	
	Total Hours	360	

Electronic Cabling and Wiring Technology Level – 1 SYS #365847

This certificate provides skills in the areas of low voltage cable and wire installations used in the telephone industry, computer networks, home theater, automation and security systems. This Level 1 certificate can be completed in one semester. If the student continues with course work, he/she can also complete Level 2 in one semester. Currently, the sequence is offered annually. The College offers this program in cooperation with the Pomona Unified School District – Village Academy. Certificate Reauirements: Course ID **Course Title** Hours VOC EST50 **Electrical Fundamentals** 72 for Cable Installations VOC EST52 **Fabrication Techniques** 72 for Cable Installations VOC EL11 **Technical Applications in** 54 Microcomputers, or VOC CISB15 **Microcomputer Applications** 72 **Total Hours** 270

Electronic Cabling and Wiring Technology Level – 2 SYS #582715

This certificate provides skills in the areas of low voltage cable and wire installations used in the telephone industry, computer networks, home theater, home automation and security systems. Level 2 certification includes customer relations and advanced skills at the systems level in voice, video and data cable and wire systems and the setup. maintenance, and troubleshooting of home theatre systems, home automation and security systems.

Level 2 is a continuation of Level 1 and can be completed in one semester. This sequence is offered annually in cooperation with the Pomona Unified School District -Village Academy.

Certificate Requirements:

Completion of Electronic Cabling and Wiring Technology Level 1 Certificate (270 hours)

	eare (=/ 0 110 alls)		100
Course ID	Course Title	Hours	
VOC EST54	Cabling and Wiring Standards	72	VOC
VOC EST56	Home Theater and Home	72	VOC
	Automation Systems		
VOC EL60	Customer Relations for the	18	VOC
	Technician		VOC
	Total Hours	162	voc
Recommende	ed Electives:		VUC
VOC EL61	Electronic Assembly and Fabrication	n	voc
VOC EL62	Advanced Surface Mount Assembly	у	100
	and Rework		

Electronic Systems Technology – Level 1 SYS #Pending

Develops skills in electrical fundamentals, fabrication techniques, cabling and wiring standards for cable and wire systems (copper, coax, fiber and structured cables) and basic computer skills in word processing, spreadsheets, database and the Internet. Courses are offered Fall and Spring semesters and the certificate can be completed in one year.

Course ID	Course Title	Hours
VOC EST50	Electrical Fundamentals for Cable Installations	108
VOC EST52	Fabrication Techniques for Cable Installations	108
VOC EST54	Cabling and Wiring Standards	108
VOC EL11	Technical Applications in Microcomputers	54
VOC CISB15	Microcomputer Applications	72
	Total Hours	450

Electronic Systems Technology – Level 2 SYS #Pending

This Level 2 certificate builds on the skills and concepts learned in level 1 and adds customer relations (soft skills) and the installation, calibration, setup, maintenance and

troubleshooting of home theater systems, home automation and home security systems. Courses in the sequence are offered Fall and Spring semesters, and the certificate can be completed in one year.

Certificate Requirements:

Course ID	Course Title	Hours
VOC EST56	Home Theater and Home Automation Systems	108
VOC EST62	Electronic Troubleshooting – 1	108
VOC TCH60	Customer Relations for the Technician	18
VOC EST64	Electronic Troubleshooting – 2	108
VOC EST70	C-7 Low Voltage Systems License Preparation	36
VOC EL61	Electronic Assembly and Fabrication	72
VOC EL62	Advanced Surface Mount Assembly and Rework	72
	Total Hours	522

Hours

54

36

18

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VOC CP1A

VOC EDT11

VOC EL76

Electronic Technology SYS #670897

This one-year certificate is designed for the person requiring background in the basic core courses of electronic technology without an area of specialization. The core courses provide the necessary skills for entrylevel employment as an electronic technician. If taken part-time, the sequence can be completed in two years. Students are guided by written information regarding term offering and correct course selection.

Certificate Requirements:

Course ID **Course Title** VOC EL11 Technical Applications in Microcomputers VOC EL50A Electronics Theory VOC EL50AL Electronics Laboratory VOC EL50B Electronics Theory VOC EL50BL Electronics Laboratory VOC EL51 Electronic Devices Theory VOC EL51L **Electronic Devices Laboratory** VOC EL56 **Digital Electronics** VOC EL56L Digital Electronics Laboratory VOC EL61 **Electronics Assembly and** Fabrication VOC ELM65A Mathematics of Electronics VOC ELM65B Mathematics of Electronics **Total Hours**

Engineeri SYS #103989	ng Technology		S
	eting this certificate will have training ectronics including: microprocessors a		e a
	tronic communications and industrial		
	ols. The sequence of courses is offered		S
	rtificate can be completed in two yea		t
Jobs include, bu	t are not limited to:		0
Electrical an	d Electronics Installers and Repair		C
Electrical an	d Electronic Engineering Technician		٧
Electrical an	d Electronic Equipment Assemblers		
Certificate Requ	irements:		١
Course ID	Course Title	lours	
VOC EL11	Technical Applications in	54	۱V
	Microcomputers		\ \ \
VOC EL12	Computer Simulation and Troubleshooting	36	V V
VOC EL50A	Electronics Theory	36	۱
VOC EL50AL	Electronics Laboratory	18	١
VOC EL50B	Electronics Theory	36	١
VOC EL50BL	Electronics Laboratory	18	١
VOC EL51	Electronic Devices Theory	54	١
VOC EL51L	Electronic Devices Laboratory	18	۱
VOC EL53	Communications Circuits Theory	54	
VOC EL53L	Communications Circuits Laboratory	18	V
VOC EL54A	Industrial Circuits Theory	54	V
VOC EL54AL	Industrial Circuits Laboratory	18	V
VOC EL54B	Industrial Electronic Systems	36	V
VOC EL54BL	Industrial Electronic Systems Laboratory	18	۷
VOC EL55	Microwave Communications	54	_
VOC EL55L	Microwave Communications Laboratory	18	5
VOC EL56	Digital Electronics	54	
VOC EL56L	Digital Electronics Laboratory	18	T
VOC EL61	Electronics Assembly and Fabrication	36	
VOC EL74	Microprocessor Systems	54	r
VOC EL74L	Microprocessor Systems Laboratory	18	
VOC ELM65A	Mathematics of Electronics	36	0
VOC ELM65B	Mathematics of Electronics	36	0
	Total Hours	792	C
Recommended	Electives:		١

Computer Keyboarding

Technical Engineering Drawing I

Radio Telephone Communications

Electronics and Computer –

Electronics Communications SYS #742582

This certificate encompasses advanced coursework in electronics communications including both land-based and wireless forms of communication. The sequence can be completed in two years when taken part-time. Students are guided by written information regarding term offering and correct course selection.

Certificate Reauirements:

certificate fier	lancinciioi	
Course ID	Course Title	Hours
VOC EL11	Technical Applications in	54
	Microcomputers	
VOC EL12	Computer Simulation and	36
	Troubleshooting	
VOC EL50A	Electronics Theory	36
VOC EL50AL	Electronics Laboratory	18
VOC EL50B	Electronics Theory	36
VOC EL50BL	Electronics Laboratory	18
VOC EL51	Electronic Devices Theory	54
VOC EL51L	Electronic Devices Laboratory	18
VOC EL53	Communications Circuits Theory	54
VOC EL53L	Communications Circuits Laboratory	18
VOC EL55	Microwave Communications	54
VOC EL55L	Microwave Communications	18
	Laboratory	
VOC EL56	Digital Electronics	54
VOC EL56L	Digital Electronics Laboratory	18
VOC EL61	Electronics Assembly and Fabrication	36
VOC ELM65A	Mathematics of Electronics	36
VOC ELM65B	Mathematics of Electronics	36
	Total Hours	594
Industria SYS #61211	l Electronics	
controls and n logic controls running Windo courses can be	includes electronic devices for industri notor controls; including programmable using the Allen Bradley series of PLC's ows ladder logic software. The sequence completed in two years if taken part- fered on an annual basis.	e of
Certificate Rea	quirements:	
Course ID	Course Title	Hours

Community Education

VOC EL50AL	Electronics Laboratory
VOC EL50B	Electronics Theory
VOC EL50BL	Electronics Laboratory
VOC EL51	Electronic Devices Theory
VOC EL51L	Electronic Devices Laboratory
VOC EL54A	Industrial Circuits Theory
VOC EL54AL	Industrial Circuits Laboratory
VOC EL54B	Industrial Electronic System
VOC EL54BL	Industrial Electronic System
	Laboratory
VOC EL56	Digital Electronics
VOC EL56L	Digital Electronics Laboratory
VOC EL61	Electronics Assembly and
	Fabrication
VOC ELM65A	Mathematics of Electronics
VOC ELM65B	Mathematics of Electronics
	Total Hours

OCCUPATIONAL – HEALTH CAREERS

Certified Nursing and Acute Care **Nursing Assistant** SYS #195661

This certificate program will prepare participants to work in both long-term and acute care facilities thus providing entry level, diverse, work opportunities in the ever growing health care field. For those planning on entering LVN or RN programs, course content may increase chances for successful admission and completion of nursing program curriculum.

These courses meet the requirements for California state certification as a CNA. The program incorporates processing of the state application and administration of the NATAP test with same day official test results for the written and manual skills examination. Verification of successful passing of the NATAP test permits immediate eligibility for employment.

All coursework can be completed within 11 weeks. Offered in Fall or Spring semesters

Participants must

- provide their own transportation and be at least 16 years of age or have a work permit
- be able to meet expenses and responsibilities incurred • as part of this program.
- demonstrate proficient English/ESL verbal and written communication skills to take written exams, communicate with clients and maintain a safe clinical environment

Course Title Course ID Hours VOC HTH01 **Certified Nursing Assistant** 170 VOC HLTH04 Acute Care Nursing Assistant 88 VOC HLTH05 Health Careers Resource Center AR **Total Hours** 258+ AR **Certified Nurse Assistant (CNA)** Course Completion Only VOC HLTH 01 VOC HTH 01 is offered for "course completion only" during the Winter and Summer Intersessions. This course provides for employment in long term care only. For further information, please contact the Health Careers Resource Center, (909) 594-5611, ext. 4788.

Health Care Interpreting SYS #425877

Certificate Requirements:

18

36

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576

Regulatory changes in health care now require health care agencies to provide health services in a linguistically and culturally sensitive manner. The need for trained interpreters is growing rapidly. Utilization levels, within the field, are expanding with future opportunities for growth and mobility.

The Health Care Interpreting Certificate is an 11 month program, designed to train bilingual and bicultural students to develop the awareness, knowledge and skills for effective language interpretation in health care settings. Through academic preparation, practical skills training, and service in community-based health care settings and educational organizations, HCI candidates will learn:

- Roles and responsibilities of an interpreter in health care settings.
- Basic knowledge of common medical conditions, treatments, and procedures.
- Language and cultural nuances for specific healthcare consumers and providers.
- Application of interpreting skills in English and Spanish or Mandarin.

The program begins each fall semester and includes coursework, independent lab study, and a 6-week unpaid internship within a local healthcare facility. Certification is awarded after completion of the internship. Classes are arranged for the working student, and are scheduled evenings and Saturdays.

A cohort of students is admitted each fall semester and completes the certificate at the end of the following Summer Intersession.

Certificate Requ (Successful com Course ID ESL V-HLTH VOC HLTH12 VOC ANAT50 VOC HLTH13 VOC HLTH14 VOC HLTH05	pletion of all courses listed below)	Hours 54 54 84 84 112	VOC MFG17 VOC MFG19 VOC MFG38 VOC MFG38B VOC MFG38C VOC MFG39 VOC MFG39 VOC MFG58 VOC MFG70 VOC MFG85	3-D CAD – Mechanical Modeling Parametric Solid Modeling for Manufacturing MasterCAM I Advanced MasterCAM MasterCAM Solids SurfCAM I SurfCAM II Blueprint Reading for Manufacturing Technical Mathematics – Manufacturing Applications Manual CNC (Computerized Numerical Control) Operations
	and 3 hrs/wk arranged in HCRC, Fall and Spring semesters)		VOC MFG85	
VOC HLTH15	Externship in Health Care Interpreting	48		courses from the following:
VOC HLTH20	Health Care Interpreter Seminar Total Hours	12 502	VOC MFG25	Advanced Parametric Solid Modeling for Manufacturing
D			VOC MFG27	AutoDesk Inventor

Basic Reauirements:

Applicants should have advanced academic proficiency in English, both spoken and written, and should be equally proficient in their native language.

To enroll in this program, you must attend an information meeting and complete the English assessment process. Registration will be offered on a first-come, first served basis for eligible candidates attending the meeting.

For further information and mailed announcements of meeting dates, call VESL Registration at (909) 594-5611, ext. 5236.

OCCUPATIONAL – MANUFACTURING TECHNOLOGY

Manufacturing Technology SYS #219807

The primary purpose of this certificate is to emphasize the manipulative skills required to enter the field of machine metal worker, machine operator, production machinist, mechanical technician or machinist. Courses are offered on an annual basis and this certificate can be completed in two years. There are many occupational titles and opportunities in this field.

Certificate Requirements:

Course ID	Course Title
VOC MFG11	Manufacturing Processes I
VOC MFG12	Manufacturing Processes 2
VOC MFG15	AutoCAD 2-D

VOC WLD40	Introduction to Welding		
MasterCAM			

Μ SYS #800999

This certificate provides a strong background in MasterCAM 2-D and 3-D, and SolidWorks software packages along with the necessary machine shop theory and practice to input sound functional data into the CAM system. The sequence can be completed in three semesters.

36

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Certificate Requirements:

Hours

36

36

36

, Course ID	Course Title	Hours
VOC MFG11	Manufacturing Processes I	36
VOC MFG38	MasterCAM I	36
VOC MFG38B	Advanced MasterCAM	36
VOC MFG38C	MasterCAM Solids	36
	Total Hours	144

Parametric Solid Modeling SYS #649508

With the strong relationship between AutoCAD and manufacturing, this mini certificate guides the student through AutoDesk's 2-D and 3-D and other software packages used in the manufacturing industry. The sequence can be completed in three semesters.

COMMUNITY EDUCATION

Certificate Re	auirements:		
Course ID	Course Title	Hours	Adminis
VOC MFG15	AutoCAD 2D	36	2SYS #Pen
VOC MFG17	3-D CAD — Mechanical Modeling	36	This certification
VOC MFG19	Parametric Solid Modeling for Manufacturing	36	where office needed. The
VOC MFG25	Advanced Mechanical Desktop	36	courses are o
VOC MFG27	AutoDesk Inventor	36	Certificate R
	Total Hours	216	Completion of (396 hours)
SurfCAM	l		Course ID
SYS #25584	-		VOC BSO25
			VOC CP02
manufacturing and run Comp	is a direct employment pathway for students who wish to write, edit, do uterized Numerical Control (CNC) mac	hines,	VOC CP20

and provides a strong background in the basics of both manual and CNC machines. The sequence can be completed in one year and is a highly specialized occupation.

Certificate Requirements:

Course ID	Course Title	Hours
VOC MFG11	Manufacturing Processes I	36
VOC MFG39	SurfCAM I	36
VOC MFG39B	SurfCAM II	36
VOC MFG85	Manual CNC (Computerized Numerical Control) Operations	36
	Total Hours	144

OCCUPATIONAL - OFFICE TECHNOLOGY

Administrative Assistant – Level I SYS #736281

Prepares students for entry-level clerical positions where keyboarding is the primary function. The sequence can be completed in one year and courses are offered both Fall and Spring semesters.

Certificate Requirements:			
Course ID	Course Title	Hours	
VOC BSO05	Business English	54	
VOC CP01	Computer Keyboarding, <u>or</u>	72	
VOC CP01A	Computer Keyboarding, <u>and</u>	36	
VOC CP01B	Computer Keyboarding	36	
VOC CP12	Office Computer Applications, or	72	
VOC CIS15	Microcomputer Applications	72	
VOC CP28	Office Management Skills	54	
	Total Hours	396	

الم المعالم الم			Certificate Re	auirements:		
Administ	rative Assistant – Leve	12	Course ID	Course Title	Hours	
2SYS #Pending			VOC CP01	Computer Keyboarding, <u>or</u>	72	
This certificate prepares students for clerical positions			VOC CP01A	Computer Keyboarding and	36	
where office organization and transcription skills are			VOC CP01B	Computer Keyboarding	36	
	quence can be completed in one ye		VOC CP11	Internet Research for Business	36	
courses are off Certificate Red	ered both Fall and Spring semesters	•	VOC CP60	Desktop Publishing with InDesign or PageMaker	72	
	Administrative Assistant – Level I Cer	rtificate	VOC CP62	Desktop Publishing with QuarkXpress	72	
Course ID	Course Title	Hours	VOC CP63	Adobe Illustrator for Desktop	72	
VOC BSO25	Business Communications	54		Publishing, <u>or</u>		
VOC CP02	Intermediate Computer	72	VOC CP64	Desktop Publishing Seminar	45	
	Keyboarding		VOC CP65	Modifying Images for Desktop	72	
VOC CP20	Word for the Business	72	VOC GRP10	Publishing, <u>or</u> Photo Editing with Photochon	54	
	Professional, <u>or</u> Transcription Techniques	54	VOC GRP10 VOC GRP16	Photo Editing with Photoshop Digital Image Design with	54 54	
VOC CP68	Total Hours	24 288	VOC UNF TO	Illustrator and Freehand	54	
		200		Total Hours	621	
Data Ent			Medical	Office Specialist		
	-		Certificate	-		
	is intended to prepare students for				210	
	employment as data entry operators, customer service			The courses in this certificate are intended to prepare students for employment as entry-level medical office		
representatives, receptionists, or entry-level office support			students for e	mployment as entry-level medical of	ffice	
staff positions.	Training in a variety of computer sk	tills is	assistants, me	mployment as entry-level medical o dical receptionists, administrative as: cal office managers or other office si	sistants-	
staff positions.	Training in a variety of computer sk ne sequence is offered annually and	tills is	assistants, me medical, medi staff in the m	dical receptionists, administrative as cal office managers or other office si edical field. This sequence is offered	sistants- upport	
staff positions. emphasized. Tl	Training in a variety of computer sk ne sequence is offered annually and one year.	tills is	assistants, me medical, medi staff in the m	dical receptionists, administrative as cal office managers or other office si	sistants- upport	
staff positions. emphasized. The completed in completed i	Training in a variety of computer sk ne sequence is offered annually and one year.	tills is	assistants, me medical, medi staff in the me annual basis a Certificate Re	dical receptionists, administrative ass cal office managers or other office se edical field. This sequence is offered and can be completed in two years. <i>quirements:</i>	sistants- upport on an	
staff positions. emphasized. The completed in our completed in our completed in our completed in our complete the complete	Training in a variety of computer sk ne sequence is offered annually and one year. Juirements:	can be	assistants, me medical, medi staff in the m annual basis a Certificate Rea Course ID	dical receptionists, administrative ass cal office managers or other office si edical field. This sequence is offered and can be completed in two years. <i>quirements:</i> Course Title	sistants- upport on an Hours	
staff positions emphasized. Tl completed in o <i>Certificate Reo</i> Course ID	Training in a variety of computer sk ne sequence is offered annually and one year. Juirements: Course Title Intermediate Computer Keyboarding	can be	assistants, me medical, medi staff in the m annual basis a <i>Certificate Rea</i> Course ID VOC BSA72	dical receptionists, administrative as: cal office managers or other office si edical field. This sequence is offered and can be completed in two years. <i>quirements:</i> Course Title Bookkeeping – Accounting	sistants- upport on an Hours 90	
staff positions emphasized. Tl completed in o <i>Certificate Reo</i> Course ID	Training in a variety of computer sk ne sequence is offered annually and one year. Juirements: Course Title Intermediate Computer Keyboarding Office Computer Applications, <u>or</u>	can be	assistants, me medical, medi staff in the m annual basis a <i>Certificate Red</i> Course ID VOC BSA72 VOC BS005	dical receptionists, administrative as: cal office managers or other office si edical field. This sequence is offered and can be completed in two years. quirements: Course Title Bookkeeping – Accounting Business English	sistants- upport on an Hours	
staff positions. emphasized. TI completed in or Certificate Reg Course ID VOC CP02 VOC CP12 VOC CP12 VOC CISB15	Training in a variety of computer sk ne sequence is offered annually and one year. Juirements: Course Title Intermediate Computer Keyboarding	tills is can be Hours 72	assistants, me medical, medi staff in the m annual basis a <i>Certificate Re</i> Course ID VOC BSA72 VOC BS005 VOC BS0 25	dical receptionists, administrative as: cal office managers or other office si edical field. This sequence is offered and can be completed in two years. quirements: Course Title Bookkeeping – Accounting Business English Business Communications	sistants- upport on an Hours 90 54 54	
staff positions. emphasized. Tl completed in o <i>Certificate Reo</i> Course ID VOC CP02 VOC CP12	Training in a variety of computer sk ne sequence is offered annually and one year. Juirements: Course Title Intermediate Computer Keyboarding Office Computer Applications, <u>or</u>	Hours 72	assistants, me medical, medi staff in the m annual basis a Certificate Ret Course ID VOC BSA72 VOC BS005 VOC BS0 25 VOC CP01	dical receptionists, administrative as: cal office managers or other office si edical field. This sequence is offered and can be completed in two years. quirements: Course Title Bookkeeping – Accounting Business English Business Communications Computer Keyboarding	sistants- upport on an Hours 90 54 54 54 72	
staff positions. emphasized. Tl completed in o <i>Certificate Reg</i> <i>Course ID</i> VOC CP02 VOC CP12 VOC CP12 VOC CISB15	Training in a variety of computer sk ne sequence is offered annually and one year. Course Title Intermediate Computer Keyboarding Office Computer Applications, <u>or</u> Microcomputer Applications	Hours 72 72 72 72	assistants, me medical, medi staff in the m annual basis a <i>Certificate Re</i> <i>Course ID</i> VOC BSA72 VOC BS005 VOC BS0 25	dical receptionists, administrative as: cal office managers or other office si edical field. This sequence is offered and can be completed in two years. quirements: Course Title Bookkeeping – Accounting Business English Business Communications	sistants- upport on an Hours 90 54 54	
staff positions. emphasized. TI completed in of Certificate Reg Course ID VOC CP02 VOC CP12 VOC CP12 VOC CISB15 VOC CP18	Training in a variety of computer sk ne sequence is offered annually and one year. Juirements: Course Title Intermediate Computer Keyboarding Office Computer Applications, <u>or</u> Microcomputer Applications Data Entry Total Hours	Hours 72 72 72 72 54	assistants, me medical, medi staff in the m annual basis a Certificate Ret Course ID VOC BSA72 VOC BS005 VOC BS0 25 VOC CP01	dical receptionists, administrative as: cal office managers or other office si edical field. This sequence is offered and can be completed in two years. quirements: Course Title Bookkeeping – Accounting Business English Business Communications Computer Keyboarding Intermediate Computer	sistants- upport on an Hours 90 54 54 54 72	
staff positions. emphasized. TI completed in of <i>Certificate Reg</i> <i>Course ID</i> VOC CP02 VOC CP02 VOC CP12 VOC CP18 Desktop	Training in a variety of computer sk ne sequence is offered annually and one year. Juirements: Course Title Intermediate Computer Keyboarding Office Computer Applications, <u>or</u> Microcomputer Applications Data Entry Total Hours Publishing	Hours 72 72 72 72 54	assistants, me medical, medi staff in the m annual basis a Certificate Ret Course ID VOC BSA72 VOC BSA72 VOC BSO05 VOC BSO 25 VOC CP01 VOC CP02	dical receptionists, administrative as: cal office managers or other office si edical field. This sequence is offered and can be completed in two years. quirements: Course Title Bookkeeping – Accounting Business English Business Communications Computer Keyboarding Intermediate Computer Keyboarding	sistants- upport on an Hours 90 54 54 54 72 72 72	
staff positions. emphasized. Tl completed in of Certificate Reg Course ID VOC CP02 VOC CP12 VOC CP12 VOC CP12 VOC CISB15 VOC CP18 Desktop SYS #16252	Training in a variety of computer sk ne sequence is offered annually and one year. Course Title Intermediate Computer Keyboarding Office Computer Applications, <u>or</u> Microcomputer Applications Data Entry Total Hours Publishing 6	Hours 72 72 72 72 54 270	assistants, me medical, medi staff in the m annual basis a Certificate Ret Course ID VOC BSA72 VOC BSA72 VOC BSO05 VOC BSO 25 VOC CP01 VOC CP02 VOC CP12	dical receptionists, administrative as: cal office managers or other office si edical field. This sequence is offered and can be completed in two years. quirements: Course Title Bookkeeping – Accounting Business English Business Communications Computer Keyboarding Intermediate Computer Keyboarding Office Computer Applications, <u>or</u>	sistants- upport on an Hours 90 54 54 72 72 72 72	
staff positions. emphasized. TI completed in of Certificate Red Course ID VOC CP02 VOC CP12 VOC CP12 VOC CISB15 VOC CP18 Desktop Sys #16252 This sequence	Training in a variety of computer sk esequence is offered annually and one year. Course Title Intermediate Computer Keyboarding Office Computer Applications, <u>or</u> Microcomputer Applications Data Entry Total Hours Publishing 6 of courses will afford career opportu	Hours 72 72 72 72 54 270 unities	assistants, me medical, medi staff in the m annual basis a Certificate Ret Course ID VOC BSA72 VOC BSA72 VOC BS005 VOC BS005 VOC CP01 VOC CP02 VOC CP12 VOC CISB15	dical receptionists, administrative as: cal office managers or other office si edical field. This sequence is offered and can be completed in two years. quirements: Course Title Bookkeeping – Accounting Business English Business Communications Computer Keyboarding Intermediate Computer Keyboarding Office Computer Applications, <u>or</u> Microcomputer Applications	sistants- upport on an Hours 90 54 54 72 72 72 72 72 72	
staff positions. emphasized. TI completed in of <i>Certificate Reg</i> <i>Course ID</i> VOC CP02 VOC CP02 VOC CP12 VOC CP12 VOC CP18 Desktop SYS #16252 This sequence in businesses of	Training in a variety of computer sk ne sequence is offered annually and one year. nuirements: Course Title Intermediate Computer Keyboarding Office Computer Applications, <u>or</u> Microcomputer Applications Data Entry Total Hours Publishing 6 of courses will afford career opportutes desiring desktop publishing skills. Th	Hours 72 72 72 72 54 270 unities e	assistants, me medical, medi staff in the m annual basis a Certificate Re Course ID VOC BSA72 VOC BSA72 VOC BS005 VOC BS0 25 VOC CP01 VOC CP02 VOC CP12 VOC CISB15 VOC CP18	dical receptionists, administrative as: cal office managers or other office si edical field. This sequence is offered and can be completed in two years. quirements: Course Title Bookkeeping – Accounting Business English Business Communications Computer Keyboarding Intermediate Computer Keyboarding Office Computer Applications, <u>or</u> Microcomputer Applications Data Entry Microsoft Word, <u>or</u> Office Management Skills	sistants- upport on an Hours 90 54 54 54 72 72 72 72 72 54	
staff positions. emphasized. TI completed in of <i>Certificate Reg</i> <i>Course ID</i> VOC CP02 VOC CP02 VOC CP12 VOC CP12 VOC CP18 Desktop SYS #16252 This sequence in businesses of certificate can	Training in a variety of computer sk ne sequence is offered annually and one year. nuirements: Course Title Intermediate Computer Keyboarding Office Computer Applications, <u>or</u> Microcomputer Applications Data Entry Total Hours Publishing 6 of courses will afford career opportute desiring desktop publishing skills. Th be completed in one year and course	Hours 72 72 72 72 54 270 unities e	assistants, me medical, medi staff in the m annual basis a <i>Certificate Re</i> <i>Course ID</i> VOC BSA72 VOC BS072 VOC BS072 VOC CP01 VOC CP02 VOC CP12 VOC CP12 VOC CP18 VOC CP18 VOC CP28 VOC CP28 VOC CP68	dical receptionists, administrative as: cal office managers or other office si edical field. This sequence is offered and can be completed in two years. quirements: Course Title Bookkeeping – Accounting Business English Business Communications Computer Keyboarding Intermediate Computer Keyboarding Office Computer Applications, <u>or</u> Microcomputer Applications Data Entry Microsoft Word, <u>or</u> Office Management Skills Transcription Techniques	sistants- upport on an Hours 90 54 54 72 72 72 72 72 72 54 72 54 72 54 72 54	
staff positions. emphasized. Th completed in of <i>Certificate Reg</i> <i>Course ID</i> VOC CP02 VOC CP02 VOC CP12 VOC CP12 VOC CISB15 VOC CP18 Desktop SYS #16252 This sequence in businesses of certificate can	Training in a variety of computer sk ne sequence is offered annually and one year. nuirements: Course Title Intermediate Computer Keyboarding Office Computer Applications, <u>or</u> Microcomputer Applications Data Entry Total Hours Publishing 6 of courses will afford career opportutes desiring desktop publishing skills. Th	Hours 72 72 72 72 54 270 unities e	assistants, me medical, medi staff in the m annual basis a <i>Certificate Re</i> <i>Course ID</i> VOC BSA72 VOC BS005 VOC BS005 VOC CP01 VOC CP02 VOC CP12 VOC CP12 VOC CP18 VOC CP18 VOC CP28	dical receptionists, administrative as: cal office managers or other office si edical field. This sequence is offered and can be completed in two years. quirements: Course Title Bookkeeping – Accounting Business English Business Communications Computer Keyboarding Intermediate Computer Keyboarding Office Computer Applications, <u>or</u> Microcomputer Applications Data Entry Microsoft Word, <u>or</u> Office Management Skills	sistants- upport on an Hours 90 54 54 72 72 72 72 72 72 54 72 54 72 54	

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Hours 72	Office Com SYS # 534470	puter Applications	
36	This certificate in	Office Computer Applications is	
36		eet the needs of the entry-level adu	lt
36	student or profes	sional, who is seeking to acquire an	
72	,	mputer skills required in a computer	rized
72		nt. This sequence of courses can be e year and is offered on an annual b	asis.
	Certificate Requi	rements:	
72	Course ID	Course Title	Hours
	VOC CP-BC1	Basic Computing – Level 1	51
45	VOC CP-BC2	Basic Computing – Level 2	48
72	VOC CP-BC3	Basic Computing – Level 3	48
	VOC CP-NET	Internet Research – An Introduction	23
54	VOC CP-CC	Creative Computing	51
54		Total Hours	221
621	OCCUPAT	IONAL – PHOTOGRAPHIC	5

Computer Graphics Design / Photography SYS #235898

This certificate will enable the student to develop specific computer skills needed for employment. The Computer Graphics Certificate is an option under the Photography program. The sequence can be completed in one year full-time or two years part-time. Employment will vary among several industries such as computer gaming, movie production, music video production, commercials and animation.

20			
54	Certificate Req	uirements:	
54	Course ID	Course Title	Hours
72	VOC GRP1	Computer Graphics Lab	18
72	VOC GRP10	Photo Editing with Photoshop	54
70	VOC GRP12	Advanced Photo Editing with Photoshop	54
72	VOC GRP14	Digital Color Management	54
72			
54	VOC GRP16	Digital Image Design with Illustrator & Freehand	54
72			
54	VOC GRP20	Applying Photos and Images in	54
54		Multimedia	
54	VOC GRP28	Digital Portfolio	36
74	VOC PH010	Basic Digital and Film Photography	54
774	VOC PH017	Photocommunications	54
		Total Hours	432

Community Education

Recommended Electives:

The Photographics faculty recommends that you complement your studies with selected elective courses listed below. You should meet with a professor of Computer Graphics Design/Photography to help you determine which electives would best suit your career plans.

VOC CP10	Operating the Macintosh Computer
VOC PHO01	Laboratory Studies: Black and White
	Photography
VOC PHO02	Laboratory Studies: Color Photography
VOC PHO04	Digital Cameras and Composition

Photography SYS #320382

This certificate is designed to prepare students to develop specific skills needed for employment in photography, art, cinema/animation, communications, industrial arts, graphics and journalism. The sequence of courses is offered on an annual basis and the certificate can be completed in two years.

Certificate Reauirements:

certificate fiega	in ennemest.	
Course ID	Course Title	Hours
VOC GRP10	Photo Editing with Photoshop	54
VOC PH010	Basic Digital and Film Photography	54
VOC PH011	Advanced Professional Photography	72
VOC PH012	Photographic Alternatives, <u>or</u>	54
VOC PH021	Exploring Color Photography	54
VOC PH016	Fashion Photography, <u>or</u>	54
VOC PH018	Portraiture and Wedding	54
	Photography	
VOC PH017	Photocommunication	54
VOC PHO20	Color Photography	54
VOC PH028	Photography Portfolio Development	t 36
VOC PH030	Commercial and Illustrative	54
	Photography	
	Total Hours	594

Recommended Electives:

The Photographics faculty recommends that you complement your studies with selected elective courses listed below. You should meet with a professor of Computer Graphics Design/Photography to help you determine which electives would best suit your career plans.

VOC GRP12	Advanced Photo Editing with Photoshop
VOC PHO01	Laboratory Studies: Black and White
	Photography
VOC PHO02	Laboratory Studies: Color Photography
VOC PH015	History of Photography

OCCUPATIONAL – SPECIAL NEEDS POPULATION

Job Readiness Skills SYS #798265

(San Gabriel Valley Training Center)

This Certificate provides hands-on job training in computer and assembly skills for the entry-level worker. Participants will improve their opportunities for employment and career advancement. The sequence can be completed in one year and is offered on an annual basis.

Certificate Requirements:

Course ID	Course Title	Hours
VOC CIS-CO	Computer Operations	480
VOC MFG-AR	Assembly/Repair Skills	480
	Total Hours	960

OCCUPATIONAL – WELDING TECHNOLOGIES

Weldina SYS #340189

This certificate is designed to prepare students for employment in the broad field of welding, leading to occupations in manufacturing, repair and construction. It prepares students to test for the Structural Welding Certificate and can be completed in one year. Certificate Reauirements: Course ID **Course Title** Hours VOC WLD40 Introduction to Welding VOC WLD70A Beginning ARC Welding **Note:** Any higher level welding course may be substituted for VOC WLD 70A. Intermediate ARC Welding VOC WLD70B **Total Hours** 144

Recommended Electives:

The Welding faculty recommends that students complement their studies with selected elective courses chosen from the list below. Students should meet with a professor of Welding to help you determine which of those electives would best suit your career plans. Technical Mathematics – Manufacturing VOC MFG70 Applications

VOC WLD60 Print Reading and Computations for Welders VOC WLD70C Certification for Welders

Licensed Welder SYS # Pending

This certificate is designed to prepare students for entrylevel employment as a licensed welder in the broad field of welding, including manufacturing, construction, fabrication and repair. Through theoretical and hands-on skills coursework, students prepare for industry licensing with an understanding of current guidelines and standards. Particular emphasis is placed on those competencies required for certification in structural steel welding. Course sequences can be modified to reflect industry experience or other individual needs.

Certificate Requirements: 6

Course ID	Course Title	Hour
VOC WLD40	Introduction to Welding	36
VOC WLD50	Oxyacetylene Welding	36
VOC WLD51	Basic Electric Arc Welding	36
VOC WLD53A	Welding Metallurgy	54
VOC WLD60	Print Reading and Computations for Welders	54
VOC WLD70A	Beginning Arc Welding	54
VOC WLD70B	Intermediate Arc Welding	54
VOC WLD70C	Certification for Welding	54
VOC WLD80	Fabrication and Construction Welding	54
VOC WLD81	Pipe and Tube Welding	54
	Total Hours	486

Welder with Concentration in Automotive Welding, Cutting & Modification SYS # Pendina

Preparation as a Licensed Welder with additional skills and theoretical development in automotive welding. cutting and modification.

Certificate Requirements:

36

54

54

Completion of Licensed Welder Certificate (486 hours)

Course ID	Course Title	Hours
VOC WLD91	Automotive Welding, Cutting	54
	and Modification	

Welder with Concentration in **Gas Tungsten Arc, Welding** SYS # Pending

Preparation as a Licensed Welder with additional skills and theoretical development in gas tungsten ARC welding.

Certificate Requirements:

Completion of Licensed Welder Certificate (486 hours)				
Course ID Course Title Ho				
VOC WLD90A	Gas Tungsten ARC Welding	54		

Welder with Concentration in Semiautomatic ARC, Welding usure SYS # Pending

Hours	STS # I Chaing			
36	Preparation as a Licensed Welder with additional skills and			
36	theoretical development in Semiautomatic ARC Welding.			
36	Certificate Req			
54	Completion of I	icensed Welder Certificate (486 ho	urs)	
54	Course ID	Course Title	Hours	
	VOC WLD90B	Semiautomatic ARC Welding	54	
54		Process		
54				
E /				

NONCREDIT COURSE LISTINGS

Adult Basic Education	7
Adult Basic Education – Leadership Development 227	7
Basic Skills Development – Reading & Writing 227	7
Basic Skills Foundation	7
Career Development	7
Career Information and Guidance	7
Career/Life Planning	7
Developmental Mathematics – Concepts and Application 227	7
Guidance and Orientation to Special Programs	7
Re-Entry Work Skills Needed for Today's Workforce	7

Basic Skills – Review

Improving Reading Comprehension	227
Improving Writing	
Language Skills Laboratory	
Learning Support Laboratory	
Math Skills Review	
Personal Computer Applications	227
Reading Acceleration	227
Short-Term Review	227

Basic Skills – Secondary Education (High School)

Academic Decathlon 227	1
Algebra 1 227	ι ι
Algebra 2 227	1
Art and Creative Expression	۱
Art 2	
Biology	
CAHSEE Prep – English Language Arts 228	/
CAHSEE Prep – Mathematics	
Chemistry	1
Chinese 1	2
Civics/American Government	
Computer Technology 228	1
Diploma and Referral Program Learning 228	
Economics	
English 1 228	
English 2 228	
English 3 228	
English 4	
Expository Writing 229	
Expository Writing and Critical Reading 227	
Geography	

Geometry	
Graphics/Printing, Advanced	
Health Education	228
Journalism	
Life Science	228
Mathematics, General	
Music Appreciation	228
Natural Science 1	228
Natural Science 2	228
Philosophy	228
Physical Science	229
Planning and Guidance	229
Pre-Algebra	229
Psychology	229
Single Survival "On Your Own" – Preparation for Adult Living	229
Stagecrafts	
Study Skills	229
Sociology	
Speech and Communication	229
Spanish 1 – Conversation and Writing	229
Spanish 2	229
Topics in Algebra 2	
Topics in Geometry	229
Typing/Keyboarding	
United States History	
Video and Media Production	229
World History	229
Basic Skills – Tutoring	
All Subjects Tutoring	
Language Arts Tutoring	
Mathematics	
Supplemental Instructor, Tutoring as a	
Tutoring, Introduction to	
Tutoring Techniques	229
Citizenship	
Citizenship for Naturalization	229
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Disabled Students	
Adaptive Academic Preparation	
Clinical Speech Instruction	
High Tech Center Tutorial/Assistance Class	
Lifelong Learning for the Special Needs Population	230

English for Specific Uses230For Health Professionals230Levels 1-6 and Pre-Level 1230Speaking A , B and C230Writing A, B and C230TOEFL Prep230
Health & Safety
Intravenous Therapy for Radiologic Technology230Physical Fitness and Conditioning – Football230Physical Fitness and Conditioning – Weight Training230Physical Fitness and Conditioning – Wrestling230Water Safety – Phase 1230
Occupational – Administrative Justice
Administration of Justice Report Writing
Community Relations
Concepts of Enforcement Services
Concepts of Traffic Services
Gangs in the Community/Corrections
Legal Aspects of Evidence

Animal Handling and Restraint231

Occupational – Agricultural Science

English as a Second Language (ESL)

Artificial Insemination of Livestock	
Aviculture – Cage and Aviary Birds	
Beef Production	
Canine Management	
Diesel Engine Repair	
Engine Diagnostics	
Exotic Animal Management	
Feline Management	
Floral Design 1, 2 and 3	
1	

		NONCREDIT COURSE LISTINGS (continued)			
Food Production, Land Use and Politics – A Global Perspective 2	231	Occupational – Business		Desktop Publishing Seminar	. 235
Home Gardening		-		Illustrator for Desktop Publishers	
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Mechatronics, An Introduction	Geriatric Resource Specialist
Microprocessor Systems Lecture/Interfacing Laboratory	Health Careers Resource Center
Microwave Communications Lecture/Laboratory	Health Care Interpreting, 1 and 2
Microcomputers, Technical Applications	Health Care Interpreting, Externship
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Civil Engineering Technology and CAD	Hospitality Law
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Automotive Welding, Cutting and Modification	Jewelry Production and Design for Retail Sales
Certification for Welders	Laboratory Band
Electric Arc Welding, Basic	Lettering Styles and Advertising Calligraphy
Fabrication and Construction Welding 242	Lifelong Learning for Older Adults
Gas Tungsten Arc Welding 242	Lifelong Learning – Crafts 243
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Welding Metallurgy242	Resistance Bands 243
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Art Fundamentals, Introduction to	Printmaking – Silk Screening
Ceramics	Production of Boutique Craft for Retail Sales
Ceramics – Hand Construction	Quilting
Ceramics – Intermediate Production	Sculpture, Beginning
China Painting	Sculpture, Life
Chorale, Collegiate	Sculpture – Mold Making
Chorale, Masterworks	Sculpture – Special Effects Makeup
Concert Band	Self-Defense, Beginning
Concert Music	Sewing and Design
Craft Painting for Business Opportunities	Watercolor Painting
Creative Expression through Music	Parent Education
Creative Writing (Writing your Autobiography)	Parent Participation Pre-School
Decorative Art Production for Retail Sales, Beginning	
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BASIC SKILLS

BCSK ABE01 — Career Information and Guidance

Orientation to the college including enrollment procedures, test score interpretation, course selection, and career information. Course includes Academic placement tests and/or vocational assessments available.

BCSK ABE02 — Adult Basic Education

Improves basic skills of adult learners. Content includes reading comprehension, language, and mathematics. Prepares students for the General Education Development (GED) Exam and the Armed Services Vocational Aptitude Batter (ASVAB) exam.

BCSK ABE03 — Adult Basic Education – Leadership Development

Leadership styles and individual leadership skills including effective communication, facilitation, problem-solving, decision-making and conflict resolution. Introduction to organizational structures, governance, models and group process.

BCSK ABE04 — Guidance and Orientation to Special Programs

Provides an overview of special programs at Mt. San Antonio College. Information regarding the College's mission, program guidelines, regulations, and eligibility requirements are presented.

BCSK ABE05 — Career Development

Career assessment, research and preparation; investigates career fields to determine interest; provides information on required skills and areas for professional growth. Includes assigned time for field investigation, individual assessment and skill building.

BCSK ABE06 — Basic Skills Foundation

Preparation for college credit courses. Improves reading, mathematics, writing, and critical thinking by assessing current skills. Includes individual education plan to achieve career and educational goals.

BCSK ABE07 — **Re-Entry Work Skills Needed for Today's Workforce** Development of skills necessary for employment. Topics include workplace ethics, job search techniques, resume writing and preparing for an interview.

BCSK CNSL05 — Career/Life Planning

A systematic approach to self-exploration and career/life planning which includes: identification of values, interests, skills, and selfmanagement style. Development of decision-making and goal-setting skills and identification of barriers to success. Explores careers and job search techniques.

BCSK MATH01 — Developmental Mathematics – Concepts and Application

Hands-on activities and practical applications of algebraic principles: elementary geometry, signed numbers, ratio and proportion, factoring, pre-algebra, linear and quadratic equations, complex numbers, graphing, functions, sequences, linear and non-linear inequalities and systems, progressions, and sigma notation.

BCSK WRTRE2 — Basic Writing Skills Development – Basic Skills Development in Reading and Writing

Enhance basic skills in reading and writing, via the use of computerassisted learning, e-mail and online tools.

BASIC SKILLS – REVIEW

BCSK LANG01 — Language Skills Laboratory

Designed for ESL students either enrolled in a ESL class or awaiting admission, to enhance pronunciation, listening, writing and comprehension skills. Also open to AMLA, Foreign Language, American Sign Language students to enhance skills in the primary target language.

BCSK LERN01 — Short Term Review

Intensive review in the following subjects: reading, comprehension, vocabulary, grammar, basic math, pre-algebra, and algebra. Computer programs, instructional materials, and individual assistance are provided.

BCSK LERN03 — Math Skills Review

Increase basic math knowledge and reduce math anxiety. Topics include fractions, decimals, ratios, proportions, percents, and the application of these skills in life and work situations.

BCSK LERN06 — Personal Computer Applications

Increase typing and ten-key speed using computer software. Includes current word processing, spreadsheet, database software, keyboarding techniques, including correct posture; introduction to e-mail and the Internet; time management, decision-making, problem-solving and creative thinking.

BCSK LERN50 — Learning Support Laboratory

Learning and workplace skills are enhanced by computer use and instruction for students enrolled in or seeking enrollment in a college instructional program.

BCSK LERN72 — Reading Acceleration

Provides instruction and practice in techniques of reading acceleration and variable reading speeds. Students who repeat will improve reading speed and comprehension rates.

BCSK LERN76 — Improving Reading Comprehension

Prepares students for reading informational materials. Topics include spelling, reading comprehension, dictionary usage and how to read a textbook.

BCSK LERN81 — Improving Writing

Offers assistance to students who wish to improve prewriting, writing, editing and revising. Provides instruction in content and structure of sentences, paragraphs and essays; emphasizes development in writing through the integration of grammar and critical thinking.

BASIC SKILLS – SECONDARY EDUCATION

BCSK HSACDE — High School Academic Decathlon

Integration of high school language arts, music, art, social science, mathematics, economics and speech based on a central theme to compete in the United States Academic Decathlon.

BCSK HSADRW — High School Expository Writing & Critical Reading Prepares high school students for college level reading and writing.

Develops advanced proficiency in expository, analytical and argumentative writing and emphasizes the development of critical college reading skills using a variety of fiction and non-fiction texts.

BCSK HSALG1 — High School Algebra 1

Presents to high school students the key components of first year algebra. Variables and equations, real number operations, operations with polynomials, fractions, functions, systems of linear equations, inequalities, rational and irrational numbers, quadratic functions and problem solving.

BCSK HSALG2 — High School Algebra 2

Presents to high school students the key components of second year algebra. Includes basic concepts of algebra, inequalities and the proof, linear equations and functions, products and factors of polynomials, rational expressions, irrational and complex numbers, quadric equations and functions, variation and polynomial equations, analytic geometry, exponential and logarithmic functions, sequences and series, triangle trigonometry, trigonometric graphs and identities, trigonometric applications, statistics and probability, matrices and determinants.

BCSK HSART1 — High School Art & Creative Expression

Artistic perception, creative expression, and aesthetic value of art for high school students. Historical and cultural influences. Original productions through design and drawing using a variety of media.

BCSK HSART2 — High School Art 2

Artistic perception, creative expression, and aesthetic valuing through experiences with art for high school students. Historical and cultural context of the visual arts. Original productions in design and drawing using a variety of media.

BCSK HSBIO — High School Biology

Fundamental areas of life science for high school students. Characteristics of living things, simple organisms, plants, animals, human biology, cell biology, physiology, genetics, heredity, adaptation, evolution and ecology.

BCSK HSCHEM — High School Chemistry

Chemistry for high school students. Includes atomic and molecular structure, chemical bonds, conservation of matter and stoichiometry, bases and their properties, acids and bases, solutions, chemical thermodynamics, reaction rates, chemical equilibrium, organic chemistry and biochemistry and nuclear processes.

BCSK HSCHN1 — High School Chinese 1

Fundamentals of pronunciation and grammar, practical vocabulary; understand, read, write and speak basic Chinese. Geography, customs and culture of Chinese-speaking countries for high school students.

BCSK HSCIV — High School Civics/American Government

Civics and government for high school students. Includes the growth of democracy, federalism, separation of powers, checks and balances, civil liberties, civil rights, civic participation and comparative government. Assessment of global perspectives, constitutional interpretations, political processes, public policy, free enterprise and cultural pluralism.

BCSK HSCPTC — High School Computer Technology

Includes proper technique and operations using a computer, introduction to the computer operating system, basic hardware configuration and office technology programs; document creation and editing using Microsoft Office (Word, Excel, PowerPoint); word processing, database management, spreadsheets and multimedia presentation for high school students.

BCSK HSDIPR — High School Diploma and Referral Program Learning

Designed to assist adult students who need coursework to complete their high school diploma requirements. Coursework is aligned to California K-12 State Content Standards. Students are awarded a high school diploma upon completion of the required credits and competencies.

BCSK HSECON — High School Economics

Economic principles and practices for high school students. Includes scarcity and choice, opportunity cost and trade-offs, economic systems, institutions and incentives. Markets and prices, supply and demand, competition income distribution, monetary policy, international economics and the role of government.

BCSK HSEELA — CAHSEE Prep – English Language Arts

CAHSEE English Language Arts, semesters A/B, is designed to stress the fundamentals of the high school English language arts standards. Genres and their characteristics: word analysis, reading comprehension, literary response and analysis, writing strategies, writing conventions and writing applications.

BCSK HSEEMA — CAHSEE Prep – Mathematics

CAHSEE Math, semesters A/B, is designed to stress the fundamentals of the high school math standards. Number sense, statistics, data analysis probability, algebra, functions, measurement, geometry, algebra I and mathematical reasoning.

BCSK HSENG1 — High School English 1

Introduces high school students to the foundations of literature using genre and theme experiences. Includes exploration of folk tradition, poetry, fiction, nonfiction and informational and visual media. Vocabulary development, writing strategies and applications, reading comprehension, listening and speaking strategies, language conventions, listening and speaking applications, literary response and analysis.

BCSK HSENG2 — High School English 2

Foundations of literature using genre and theme experiences for high school students. Exploration of oral tradition, poetry, fiction, nonfiction, drama and informational media. Vocabulary development, writing strategies and applications, reading comprehension, listening and speaking strategies, language convention, listening and speaking applications, literary response and analysis.

BCSK HSENG3 — High School English 3

Foundations of literature through American literature using a historical approach for high school students. Includes basic literature genres and techniques, and time-period based literature. Pre-colonial era, the American Revolution, the New England Renaissance, Slavery and the Civil War, the Frontier Era, the Modern Era, the Harlem Renaissance and Modern Drama.

BCSK HSENG4 — High School English 4

Foundations of literature through British literature using the historical approach for high school students. Social, political and intellectual trends connected with the time periods. Anglo-Saxon, Medieval period, English Renaissance, Renaissance drama, the early seventeenth century, the Restoration and the eighteenth century, the Romantic Era, the Victorian Age, contemporary British poetry and prose.

BCSK HSGEOG — High School Geography

Physical and human aspects of world geography for high school students, and includes the physical features of the earth, climate and resources, and their effects on human development. Topics studied in the context of the cultural, political, historical and religious aspects of both historical and modern life throughout the world.

BCSK HSGEOM — High School Geometry

Foundations of geometry applications for high school students. Points, lines, planes, angles, constructions, reasoning skills and proofs, perpendicular and parallel lines, congruent triangles, quadrilaterals, proportion and similarity, right triangles and trigonometry, circles, polygons, area, volume, coordinate geometry, loci and coordinate transformations.

BCSK HSGRAP — Advanced High School Graphics/Printing Advanced skills in graphics for high school students. Photo offset lithography and screen process printing. Business aspects of printing

and graphics. Laboratory use of printing equipment.

BCSK HSHLTH — High School Health Education

Increases high school students' awareness of health issues, includes healthy behavior vs high- risk behavior; how health issues impact the community and environment. Uses skill-building approach that includes decision-making, role modeling, critical analysis, and goal-setting toward a healthy lifestyle.

BCSK HSJOUR – High School Journalism

Prepares high school students to work on school newspapers. Includes writing clear, concise and interesting articles, development of grammar, spelling, punctuation, style, sentence and paragraph form, interviewing techniques, news writing skills and analysis abilities to critique newspapers and periodicals.

BCSK HSKEY — High School Typing/Keyboarding

Develops the skill of keyboarding for high school students. Emphasis will be placed on learning alphabetic and numeric keys by touch using appropriate techniques. Students will build on basic skills to improve speed and accuracy in order to create, format and edit a variety of documents.

BCSK HSLSC — High School Life Science

Fundamental characteristics of living things, simple organisms, plants, animals, human biology, physiology, genetics, heredity, adaptation, evolution and ecology for high school students.

BCSK HSMTH2 — High School General Math

Basic mathematical foundations needed for daily life and higher level math courses for high school students. Includes concepts, methods and applications of basic math skills. Topics include whole numbers, fractions, decimals, measurement, basic geometry, basic strategies, ratios, percentages, beginning pre-algebra and preparations for algebra, various consumer-related topics and problem-solving.

BCSK HSMUSC — High School Music Appreciation

Historical, cultural and genre-based aesthetic valuing of music for high school students. Vocabulary, interaction of words and music, influence of religion, theater, government and culture on musical style.

BCSK HSNS1 — High School Natural Science 1

Integration of biological, physical and earth science. Introduces high school students to scientific measurement and computation, the use of scientific laboratory equipment, and basic scientific writing. Addresses overall skill sets in the areas of reading, writing and note-taking as it relates to science.

BCSK HSNS2 — High School Natural Science 2

Integration of advanced biological, physical and earth science. Introduces high school students to advanced scientific measurement and computation, the use of scientific laboratory equipment and basic scientific writing. Addresses overall skill sets in the areas of reading, writing and note-taking as it relates to science.

BCSK HSPHIL – High School Philosophy

Introduces high school students to the terminology, problems and major philosophers from ancient to modern times. Includes the different fields of philosophy and the different systems within those fields. Emphasis will be placed on ethics and morals as they relate to students understanding and analysis of events and theories.

BCSK HSPHSC — High School Physical Science

Presents to high school students an overview and introductory understanding of physical science theories and how they apply to the real world. Includes the structure of atoms, the characteristics and applications of matter, chemical reactions, motion, force, energy, work and machines, waves, sound, light and mirrors, magnetism, electricity and scientific investigation.

BCSK HSPLNG — High School Planning and Guidance

Compliments existing school guidance and planning activities and motivates high school students to utilize those resources to their best advantage. Covers the challenges faced by students at the end of high school careers.

BCSK HSPREA — High School Pre-Algebra

Designed to help high school students transition from arithmetic to algebra. Includes concepts, methods and applications of pre-algebra. Topics include operations with integers, expressions, equations, inequalities, percents, proportions, graphing, computational skills and problem-solving skills.

BCSK HSPSY — High School Psychology

Introduces high school students to the methods, facts and theories of the behavior and processes of human beings and animals. Includes theories and characteristics of the history of psychology, research and statistics, child and adult development, sensations, perceptions, cognition, motivation, behavior, personality, abnormal behavior, individuality versus group identity and behavior and therapy.

BCSK HSSK — High School Study Skills

Designed to help high school students become better learners and prepare for success in school and at work. Covers strategies and methods to enhance the students' ability to study and learn both individually and in a group. Topics include note-taking, time management, test taking, organization, memorization, learning styles and conducting research.

BCSK HSSOC — High School Sociology

Concepts and theories of social interaction for high school students. Includes the theories, characteristics and implications of culture, socialization, society groups, deviations and control, social stratification, race, gender, age, family, education, politics, religion, sports and change.

BCSK HSSPCH – High School Speech and Communication

Designed to develop the aspects of oral communication including voice, diction, poise and ease by preparation and practice in making small speeches, and participating in discussions, debates and oral interpretation. High school students will improve their writing and speaking organization through selection and arrangement of material, through transitions and rhetorical effect. **BCSK HSSPN1** — High School Spanish 1 – Conversation and Writing Fundamentals of pronunciation and grammar, practical vocabulary, and the ability to understand, read, write and speak basic Spanish for high school students. Geography, customs and culture of Spanish-speaking countries.

BCSK HSSPN2 — High School Spanish 2

Designed for high school students to advance the fundamentals of pronunciation and grammar, practical vocabulary and the ability to understand, read, write and speak geography, customs, Spanish literature and culture of Spanish-speaking countries.

BCSK HSSS — High School Single Survival "On Your Own" – Preparation for Adult Living

Increases student knowledge and ability in skills necessary for everyday living. High school students determine goals and values, education choices, career options, money management, health care and personal needs.

BCSK HSSTG — High School Stagecrafts

Aspects for high school productions and creation of theatrical support services. Set design, set painting, construction, lighting and sound design and operations. Costume and make-up application, theater operations and stage management.

BCSK HSTAL2 — High School Topics in Algebra 2

Preparation for success in high school Algebra 2. Focuses on the basic and introductory concepts, formulas and standards of Algebra 2, including solutions of linear and quadratic equations, graphing, exponential functions and the complex number system.

BCSK HSTGEO — High School Topics in Geometry

Preparation for success in high school geometry. Focuses on the basic and introductory concepts, formulas and standards of geometry, including points, lines, planes, angles, reasoning skills and proofs, perpendicular and parallel lines, triangles, quadrilaterals, polygons, area and volume.

BCSK HSUSHS — High School United States History

Designed for high school students to study various themes in history in order to examine the past from pre-colonial to the modern era. Includes the examination of politics and history, the role of ideas, economics and history, and the importance of cultural development. Assessment of religion in history, the role of individuals, the impact of science and technology, the environment and history and social life.

BCSK HSVDEO — High School Video and Media Production

Basics of video production and software. Includes storyboards, directing, filming, sounds, lighting, transitions, titles, voice-overs, music, film analysis, editing and producing software as appropriate for high school students.

BCSK HSWHS — High School World History

Gives high school students an understanding of humanity through the basic themes present in history: economics, politics, the roles of ideas, the importance of cultural development, religion, the roles of individuals, the impact of science and technology, geographical impact and cultural development. Students will also study pre-history to the modern era.

BCSK HSWREX — High School Expository Writing

Preparation for success in expository writing for high school students. Focuses on developing essay writing including introductory paragraphs, body paragraphs and concluding paragraphs in expository, descriptive, narrative and argumentative essays.

BASIC SKILLS – TUTORING

BCSK TTR10A — Introduction to Tutoring

Introduction to tutoring, with an emphasis on tutoring strategies, problem solving, and working with a diverse student population.

BCSK TTR10B — Tutoring in the Language Arts

Prerequisite: Permission of Tutorial Specialist Tutoring in the language arts with an emphasis on approaches to working with students on written drafts and addressing the needs of non-native speakers.

BCSK TTR10C — Tutoring as a Supplemental Instructor

Permission of Tutorial Specialist recommended Tutoring as a Supplemental Instructor with an emphasis on tutoring in the classroom and in small groups under the supervision of a designated instructor.

BCSK TTR10D — Tutoring in Mathematics

Tutoring in mathematics with an emphasis on strategies to promote active learning using mathematics and dealing with specific obstacles in developmental algebra.

BCSK TUTOR1 — All Subjects Tutoring

Assistance in basic English and mathematics skills through tutoring and computer-based learning. Tutorial assistance in other subject areas is also available.

BCSK TUTOR2 — Tutoring Techniques

Explores learning theories and tutoring techniques for tutoring individuals and small groups. Emphasis is placed on encouraging independent learning.

CITIZENSHIP

CITZ NATLZN — Citizenship for Naturalization

Intermediate and advanced students prepare for the interview for United States citizenship.

DISABLED STUDENTS

DSPS EDSE01 — Lifelong Learning for the Special Needs Population Educational activities for special needs students emphasizing physical, cognitive, social and emotional skill development.

DSPS LERND1 — Clinical Speech Instruction

Designed to accommodate individual and group instruction for adults with speech and/or learning problems. Includes individual evaluation and speech improvement plan. Disorders addressed include phonology, fluency, voice and resonance, hearing impairment, cerebral vascular accident and acquired brain injury. Instruction is not available for students with dialectal problems.

DSPS LERND2 — High Tech Center Tutorial/Assistance Class

Advisory Prerequisite: Students must be referred by a counselor in Disabled Student Programs and Services (DSP&S) in order to register for this class.

Designed for students with identified disabilities who have at least three academic units at Mt. SAC. Using adaptive technology, alternate media and specialized support, offers techniques and strategies to maximize abilities in academic classes. Students are required to provide their own data disks.

DSPS LERND3 — Adaptive Academic Preparation

Designed for students who have been accepted into the Brain Injury Program at Mt. SAC. Includes specialized instruction and the use of computer software to improve cognitive skills (attention, memory, reasoning, etc.) needed for academic and/or vocational goals.

ENGLISH AS A SECOND LANGUAGE

ESL LANG03 — English for Specific Uses (ESL)

Advanced ESL students improve speaking, writing, vocabulary and SCANS competencies related to vocations. Includes critical thinking, customer service, teamwork and autonomous learning strategies.

ESL LVL-1 — ESL Level 1

Beginning to low English students build vocabulary, grammar and communication skills.

ESL LVL-2 — ESL Level 2

High beginning English students build upon their base of vocabulary and improve grammar understanding through practice of listening, speaking, reading and writing skills. Students work independently and in groups to develop projects and make presentations that are meaningful to them.

ESL LVL-3 — ESL Level 3

Low intermediate level students improve English communication and grammar through practice of listening, speaking, reading and writing skills. Activities include team projects, presentations and exams in preparation for academic/vocational success and encourage civic participation.

ESL LVL-4 — ESL Level 4

High intermediate level students improve English communication and grammar through practice of listening, speaking, reading and writing skills. Activities include team projects, presentations and exams, in preparation for academic/vocational success and encourage civic participation.

ESL LVL-5 — ESL Level 5

Low advanced level students improve English communication and grammar understanding through practice of listening, speaking, reading and writing skills. Activities include team projects, presentations and exams in preparation for and academic/vocational success and encourage civic participation.

ESL LVL-6 — ESL Level 6

High advanced level students improve English communication skills and prepare to transition into academic, vocational programs, or general community classes. Activities include teamwork, projects, presentations and exams to ensure life-long learning, civic participation and overall success.

ESL PLVL-1 — ESL Pre-Level 1

Literacy-level English students build a base of vocabulary and grammar through practice of listening, speaking reading and writing skills.

ESL SPK-A — ESL Speaking A

Beginning level students develop English listening comprehension and speaking fluency. Activities include talking in small groups or with partners, listening and responding to simple conversations, short presentations and pronunciation practice.

ESL SPK-B — ESL Speaking B

Intermediate level students improve English oral proficiency in areas of pronunciation, listening comprehension and speaking skills. Through group discussions and short presentations, students practice speaking with clarity and fluency, present their ideas and opinions, and make cultural comparisons.

ESL SPK-C — ESL Speaking C

Advanced level students expand listening and speaking strategies to facilitate academic preparation, workplace advancement and civic participation. Focus is on fluency, grammatical accuracy and appropriate social register. Activities include use of authentic material in group tasks and class presentations.

ESL TOEFL — TOEFL Preparation

Advanced ESL students improve grammar, speaking and writing in preparation for standardization tests such as TOEFL.

ESL V-HLTH — English as a Second Language for Health Professionals

Advanced ESL students improve medical vocabulary and English skills for healthcare situations.

ESL WRTE-A — ESL Writing A

Beginning level students develop reading and writing skills that set the foundation for their English literacy. Material is based on familiar topics and American customs. Focus is on vocabulary expansion, introduction to reading passages, and accuracy in sentence-level writing.

ESL WRTE-B — ESL Writing B

Intermediate level students improve English reading and writing proficiency through a variety of reading material and writing topics. Students gain fluency and confidence through abridged book reports, process writing and peer editing, primarily at the paragraph level.

ESL WRTE-C — ESL Writing C

Advanced level students expand English reading and writing proficiency through a range of genres. American-style process writing is practiced in order to facilitate academic preparation and workplace advancement. Focus will be on interpretation of authentic material and development of editing strategies.

HEALTH & SAFETY

HLSF PE-F10 — **Physical Fitness and Conditioning** – **Weight Training** An over-all fitness and physical conditioning program using weight machines, free weights and Olympic lifting exercises. This course is intended for the beginner to advance exerciser. Improved results will be achieved through active participation for students who repeat the course.

HLSF PE-148 — **Physical Fitness and Conditioning – Wrestling** Wrestling to develop overall fitness and conditioning. Appropriate for beginning and advanced practitioners. Improved results will be achieved through active participation.

HLSF PE-S13 — Physical Fitness and Conditioning – Football

An increased level of physical conditioning will be attained through systematic and progressive exercises. These exercises include stretching, controlled running, muscular strength and power through weights, speed and agility developed through drills.

HLSF PHYS01 — Water Exercise – Phase I

Water exercise program that provides an individual workout with an emphasis on strength development, cardiovascular fitness improvement and increased flexibility. Lap swimming lanes are available. Improved results will be achieved through active participation for students who repeat the course.

VOC RADTEC — Intravenous Therapy for Radiologic Technology

This course prepares the Radiologic Technologist student to perform venipuncture in an upper extremity to administer contrast materials under the general supervision of a licensed physician and surgeon. Principles and techniques of venipuncture will be covered including: anatomy and physiology of sites, instruments, I.V. solutions, equipment, puncture techniques, hazards, complications, emergency care, post puncture care. Procedure practice and safe competency evaluation will be performed on training aids under supervision.

OCCUPATIONAL – ADMINISTRATIVE JUSTICE

VOC ADJU01 — Administration of the Justice System

History and philosophy of the justice system, subsystems, roles, relationships and theories of crime causation and correction.

VOC ADJU02 — Principles and Procedures of the Justice System

Roles and responsibilities of each segment of the justice system; additional focus on relationships between system segments and subsystem procedures from initial incident to final disposition.

VOC ADJU03 — Concepts of Criminal Law

Provides an overview of California criminal law from the perspective of the law enforcement officer.

VOC ADJU04 — Legal Aspects of Evidence

Introduction to criminal evidence, including admissibility, witness competency, privileged communication, hearsay and collection and preservation of evidence.

VOC ADJU05 — Community Relations

A comprehensive exploration of community problems designed for individuals in public service with major emphasis on communityoriented policing. Reviews public service image, diversity issues, human relations and reactions, crisis areas and confrontations with the public.

VOC ADJU06 — Concepts of Enforcement Services

Responsibilities, techniques and methods of police patrol with emphasis on the basic knowledge required in handling common police occurrences.

VOC ADJU13 — Concepts of Traffic Services

A study of traffic management, collision reconstruction, collision factors including law violations and human factors, collision evidence, traffic enforcement techniques and specialization in traffic management. Emphasis is placed on service to the motoring public.

VOC ADJU20 — Principles of Investigation

This course covers the fundamentals of investigation including crime scene search and recording; collection and preservation of physical evidence; modus operandi; scientific aids; sources of information; interviews and interrogation; follow up and case preparation.

VOC ADJU38 — Narcotics Investigation

Investigation techniques for drug enforcement. Drug effects, use of informants, amendment issues and handling of evidence.

VOC ADJU59 — Gangs in the Community/Corrections

Exploration of contemporary street and prison gang issues, including historical and current perspectives, prison gang dynamics, identification of characteristics, cultural differences of gang philosophy. Includes law enforcement/corrections role in intervention/suppression.

VOC ADJU68 — Administration of Justice Report Writing

Techniques for proper documentation of crime reports and related law enforcement records. Use of simulations and role-playing.

VOC ADJU74 — Vice Control

Code and case law dealing with vice; detection and suppression; apprehension and prosecution of violators; special consideration of laws dealing with gambling, prostitution, and sex crimes.

OCCUPATIONAL – AGRICULTURAL SCIENCE

VOC AGAG01 — Food Production, Land Use and Politics – A Global Perspective

Surveys the world's food producing systems in terms of economic, political and cultural forces. Emphasizes ethical, sustainable food producing agriculture.

VOC AGAN01 — Animal Science

Fundamental problems and essential concepts of animal production. Includes the study of the types of domestic animals and their utilization by humans.

VOC AGAN02 — Animal Nutrition

Composition of feeds and their utilization by domestic animals, including digestive physiology, animal assessment, feed appraisal and compiling of rations.

VOC AGAN51 — Animal Handling and Restraint

This course will cover the methods of properly handling large and small animals and will include chemical and physical techniques of restraint.

VOC AGAN94 — Animal Breeding

The science of animal breeding, including fundamentals of inheritance, reproduction and breeding systems for domestic animals. Artificial insemination, embryo manipulation and current topics in reproductive biotechnology will also be included.

VOC AGLI12 — Exotic Animal Management

Care and management of exotic and alternative livestock species with emphasis on identification, health maintenance, handling techniques, nutrition and reproduction. Includes analysis of industry trends and principal marketing uses of exotic animals.

VOC AGLI14 — Swine Production

A study of the various types of swine enterprises and the ways and means of entering them. Swine management, including handling, feeding, breeding, furrowing, butchering, and marketing. Practical skills are taught using the college farm.

VOC AGLI16 — Horse Production

Selection, utilization, and management of the light horse emphasizing recreational aspects of the modern horse. Laboratory work includes actual experience in the care of horse and tack.

VOC AGLI17 — Sheep Production

A study of the various types of sheep enterprises and the ways and means of entering them. Includes class, laboratory and project work concerning all phases of sheep management, sheep handling, feeding, shearing, breeding, lambing and marketing. Practical skills taught on the school farm and sheep farms in the area.

VOC AGLI18 – Horse Ranch Management

Skills and knowledge to work on or manage a modern equine ranch, including management of the breeding farm, farm layout, estrous cycles, breeding problems and stallion care.

VOC AGLI19 – Horse Hoof Care

Emphasizes proper horse hoof care; shoeing, trimming and disease recognition and control.

VOC AGLI20 — Horse Behavior and Training

Breaking and starting young horses. Concentrates on halter training of foals, ground work on yearlings, and green-breaking two-year-olds and up. Includes lunging techniques, driving, and breaking to a saddle. Training in collection, turning, backing, leads, and trailer loading.

VOC AGLI30 — Beef Production

Principles and practices in the selection and management of feeder, market and breeding beef cattle. Economics of production, utilization of farm-grown feeds, and feedlot operations will be stressed.

VOC AGLI34 — Livestock Judging and Selection

Study of form and appearance of farm animals as related to their function. Includes judging of breeding and terminal livestock as well as carcass evaluation.

VOC AGLI96 — Animal Sanitation and Disease Control

Prevention and control of infectious diseases affecting domestic animals, including basic disease concepts, transmissions of infectious diseases, principles of sanitation and fundamentals of immunology.

VOC AGLI97 — Artificial Insemination of Livestock

Theory and application of artificial insemination of livestock, including semen evaluation and processing. Pregnancy diagnosis will be covered as an aid to the inseminator.

VOC AGOR-G — Home Gardening

Includes lectures, demonstrations and hands-on experience in organic gardening, indoor plants, introduction to bonsai, fruit orchards, traditional gardening and information on pesticides. The study of design, propagation methods, pruning, fertilizing, and a general understanding of horticulture will be included.

VOC AGOR01 — Horticultural Science

The basic horticulture skills and techniques for use in gardening, nursery, and landscape applications. Emphasis on propagation, cultural practices, and the study of plant relationships, structure, growth and development.

VOC AGOR02 — Plant Propagation/Greenhouse Management

Plant propagation and production practices with emphasis on florists' plants, woody ornamentals and fruits. Commercial techniques include seed propagation, cuttings, grafting and budding, layering, fern sporing and division. Stresses greenhouses and other environmental structures for plant propagation and production.

aquatic facilities and golf courses.

VOC AGOR13 — Landscape Design

VOC AGOR15 — Interior Landscaping

VOC AGOR25 — Floral Design 1

VOC AGOR26 — Floral Design 2

professional design situations.

operations will emphasized.

test plant lists.

VOC AGOR27 — Floral Design 3

VOC AGOR24 — Integrated Pest Management

and small commercial sites.

for interior use.

laboratory setting.

Fundamentals and implementation of landscape design. Principles

landscaping materials, and plant usage. Projects emphasize residential

landscaping. Includes identification, culture and care of plants suitable

Identifies common agricultural pests in Southern California and analyzes

physical, biological and chemical pest control principles and practices.

Application of principles in the art of floral design as to form, style and

composition. Designing of floral arrangements, wreaths, sprays, baskets,

Contemporary design theory emphasizing creativity, self-expression and

Advanced application of principles in the art of holiday designs, party

Identification, growths habits, culture and ornamental use of landscape

annuals, biennials, perennials, ferns, indoor plants, groundcovers and

vines adapted to climates of California. Plants emphasized will come

and California Landscape Contractors Association (CLCA) certification

from the California Association of Nurseries and Garden Centers (CANGC)

and wedding designs, and sympathy designs. Florist management

VOC AGOR29 — Ornamental Plants – Herbaceous

bouquets, wedding flowers and corsages are included in the

Continued application of principles in the art of floral design.

Stresses use, safety, equipment, laws, and regulations of pesticides.

of design, the design process, drafting, graphics, site evaluation,

Design, Installation and maintenance practices used in interior

VOC AGOR04 — Park Management
Management and operation of municipal park departments. Includes
the development of budgets, purchasing, park policies, planning
and scheduling.VOC AGOR30 — Ornamental Plants – Trees and Woody Shrubs
Identification, growth habits, culture and ornamental use of landscape
trees and shrubs adapted to climates of California. Plants emphasized
will come from the California Association of Nurseries and Garden
Centers (CANGC) and California Landscape Contractors Association
(CLCA) certification test plant lists.

the management of sports fields, recreation centers, campgrounds, VOC AGOR32 — Landscaping and Nursery Management

Operation and management of wholesale and retail nurseries. Includes site location and layout of areas; greenhouse management; soil mixes and proper use of fertilizers, insecticides, fungicides, herbicides and growth regulators; irrigation; mechanization; financing; personnel management; retail displays, advertising and customer relationships; federal, state and local laws and regulations. Field trips are included.

VOC AGOR39 — Turf Grass Production and Management

Introduction to cultivation, maintenance and management of turf grasses utilized for athletic fields, golf courses, parks, cemeteries, commercial and residential lawns. Identification, installation, cultural requirements and maintenance practices are emphasized.

VOC AGOR40 — Sports Turf Management

Prepares students to work in the sports turf industry. Emphasizes turf cultural techniques used in sports turf management. Includes turf surfaces used on baseball, football, soccer, tennis, golf courses, driving ranges and other sports fields in both professional and amateur sports. Field trips are included.

VOC AGOR50 — Soil Science and Management

Principles of proper soil management to optimize plant growth, including management of air, water, nutrients and organic matter. Physical and chemical properties of soil that govern soil reactions and interactions. Field trips are included.

VOC AGOR51 — Tractor and Landscape Equipment Operations

Selection, operation, repair and maintenance of power equipment used in the landscape industry. Includes 2WD and 4WD tractors, skip loader, skid steerloader, backhoe, lawnmowers, edgers, weed eaters, blower/ vacuum, rotatillers, chainsaws, spraying equipment and all-terrain vehicles. Laboratory includes actual hands-on applications of this equipment.

VOC AGOR52 — Hydraulics

Operation, maintenance and repair of hydraulic systems used on agriculture and industrial equipment. Emphasis: pumps, valves, cylinders, flow control, reservoirs, lines, motors and hydrostatic transmissions. Laboratory provides hands-on application of hydraulic systems.

VOC AGOR53 — Small Engine Repair

Principles and repair of small engines used in landscape, industrial and agricultural applications. Includes repairs of lawnmowers, chainsaws, 2-cycle engine, 4-cycle engine, spraying equipment, all-terrain vehicles, and other related gas-powered equipment.

VOC AGOR55 — Diesel Engine Repair

Repair and maintenance of diesel engines used to power industrial, landscape and agricultural equipment. Students gain actual hands-on experience maintaining, servicing and repairing diesel engines.

VOC AGOR56 — Engine Diagnostics

Analysis and evaluation of tractor power failure. Students gain actual experience in the proper diagnostic procedures of power equipment. Service, maintenance and repair of tractor electrical systems: electrical wiring, voltage regulators, generators, alternators, switches, gauges, batteries and test equipment.

VOC AGOR57 — Power Train Repair

Service, maintenance and repair of power trains. Students gain experience with clutches, transmissions, differentials, power take-off units, and final drive used to transmit power on tractors and other outdoor power equipment.

VOC AGOR62 — Landscape Irrigation – Design and Installation

Design and application of turf and ornamental irrigation systems. Design techniques, sprinkler system components and hydraulic principles used in nursery management, interior design, residential and commercial landscaping. Special emphasis is given to water conservation incorporating controlled flow technologies.

VOC AGOR63 — Landscape Irrigation – Systems Management

A systematic approach to water conservation in the landscape. Repair techniques that will allow a current system to efficiently operate to its initial design. Trouble-shooting procedures including field testing of valves and controllers. Irrigation efficiency testing will be incorporated to demonstrate proper methods of water audits and system.

VOC AGOR64 — Landscape Irrigation – Drip and Low Volume

Conservation of water in the landscape by utilization of drip and lowflow irrigation practices. Design, installation techniques, operation and maintenance of drip and low-flow irrigation systems, including determination of irrigation requirements, selection of emitters and lowflow devices, and uniformity of water distribution. Students will gain hands-on experience in design and installation techniques.

VOC AGOR71 — Landscape Construction Fundamentals

Fundamentals of construction techniques and tools used in landscaping. Students will gain skills in construction projects that include surveying techniques, utilities (gas, water, electricity), woodworking and masonry.

VOC AGOR72 — Landscape Hardscape Applications

Landscape construction pertaining to hardscape featured in the landscape. Estimation and installation of fences, walks, planters, patios, lighting, barbecues, gazebos, decks, ponds, spas, fountains and pools. Students will gain hands-on experience in the laboratory activities. VOC AGOR73 — Landscaping Laws – Contracting and Estimating Landscape laws, contracting and estimating as they pertain to landscape construction. Information covered will be helpful for Landscape Contractor's (C-27 classification) licensing exam administered by the state of California. Students gain hands-on experience of contracting and running a business.

VOC AGOR75 — Urban Arboriculture

Care and management of ornamental trees. Includes pruning techniques, fruit tree care, bracing, cabling, and pest control. Safe practices in the use of equipment including the use of ropes, chippers, boom trucks, chain saws, and identification and evaluation of common trees. Prepares students for the tree worker and arborist certification exams.

VOC AGPE70 — Pet Shop Management

The pet industry, pet shop operations and the economic aspects of the retail/wholesale pet business. Includes organization and operation of pet shops, animal care practices, and sound business management practices.

VOC AGPE71 — Canine Management

Selection, feeding, housing, breeding and management of dogs, including commercial aspects of the dog as a domestic pet. Laboratory work will include practical experience in the handling, training and grooming of dogs.

VOC AGPE72 — Feline Management

Care and management of cats. Includes breed identification and characteristics, grooming, showing, nutrition, practical care, behavior, breeding and housing.

VOC AGPE73 — Tropical and Coldwater Fish Management

Care and keeping of marine and freshwater aquarium fishes, plants and invertebrates. Includes guidance on setting up aquariums, choosing compatible species, feeding, health care, breeding and raising fish.

VOC AGPE74 — Reptile Management

Care and keeping of reptiles and amphibians, including snakes, lizards, turtles, tortoises, newts, salamanders and frogs. Includes identification and characteristics of reptiles commonly kept as pets. Guidance regarding the housing, feeding, health maintenance, breeding and raising of reptiles will be offered.

VOC AGPE76 — Aviculture – Cage and Aviary Birds

Presents cage and aviary birds marketed in the wholesale and retail pet trade, including identification, nutrition, breeding, disease prevention and control, aviary construction and providing the proper environment. Includes information on psittacines, soft bills, finches, game birds, poultry and ornamental waterfowl.

OCCUPATIONAL – ARCHITECTURAL TECHNOLOGY

VOC ARCH11 — Architectural Drawing

Basic graphic and drawing techniques, including architectural graphics, building construction fundamentals, and methods of drawings considered prerequisite to architectural design.

VOC ARCH16 — Basic CAD and Computer Application Basic CAD (Computer Aided Design and Drafting) and computer application in architecture, engineering and related fields (including basic word processing, spreadsheet, CAD and presentation applications). Students who repeat this course will improve skills through further instruction and practice.

VOC ARCH18 — Architectural Computer Aided Design Elements Intermediate CAD (Computer Aided Design and Drafting) specifically for architectural design and production. Portfolio of 2-D drawings and 3-D CAD models will be produced.

VOC ARCH26 — Advanced Architectural Computer Aided Design Advanced architectural CAD drawings. Portfolio of working drawing and presentation applications of integrated 2-D and 3-D CAD models will be produced. Students who repeat this course will improve skills through further instruction and practice.

VOC ARCH28 — Architectural CAD 3-D Illustration and Animation Intermediate to advanced architectural CAD in 3-D illustration, rendering and animation. Virtual "walk-through" and "fly-through" of interior/exterior3-D models with photo-realistic materials and lighting will be produced. Students who repeat this course will improve skills through further instruction and practice.

OCCUPATIONAL – BUSINESS

VOC BSA07 — Principles of Financial Accounting

Introduction to financial accounting which provides the foundation for continued coursework in accounting. Includes accounting concepts and techniques essential to the administration of a business enterprise, analyzing and recording financial transactions, accounting valuation and allocation practices and the preparation, analysis and interpretation of financial statements. Gives the student the tools and methods needed for decision making.

VOC BSA11 — Fundamentals of Accounting

Accounting vocabulary and theory, equations to solve word problems, percentages, simple and compound interest, payroll, business taxes, present value, investments, inventory, depreciation, financial statement analysis and ratios.

VOC BSA53 — Ten-Key Calculations

Operation of electronic calculators by the touch method to solve business and accounting problems. Focuses on the application of calculator features to specific business concepts including banking records, payroll, invoice pricing and inventory.

VOC BSA68 — Business Mathematics

Reviews addition, subtraction, multiplication, division, decimals, percentages, fractions, sign numbers, equations and problem solving.

VOC BSA70 — Payroll and Tax Accounting

Examines all areas of on-the-job payroll accounting. Surveys the various tax procedures required by the employer and employee in filing the correct forms for Social Security, federal and state income taxes and their reconciliation. Laws related to Worker's Compensation, State Disability Benefit Laws and Fair Employment Practices are discussed.

VOC BSA71 — Financial Planning

Personal financial planning for students who wish to understand their own finances or assist others in money management. Topics include income taxes, consumer credit, budgeting home ownership, banking functions, insurance, retirement planning investing and time value of money.

VOC BSA72 — Bookkeeping – Accounting

Fundamental bookkeeping and accounting principles including the accounting cycle for service and merchandising companies, cash management, payroll and special journals. Computerized simulations and completion of a practice set.

VOC BSA75 — Using Microcomputers in Financial Accounting

Application of basic accounting concepts utilizing ledger software program. Hands-on use of a microcomputer to process accounting transactions, prepare statements and reports, and complete accounting cycle tasks. Completion of a computerized accounting practice set will be required.

VOC BSA76 — Using Microcomputers in Managerial Accounting

Analyze financial data and prepare managerial accounting reports using Excel software. Development of "what-if" formulas to be used as an aid in decision-making. Manufacturing and consolidation worksheets, financial statement analysis, and statement of cash flows.

VOC BSM10 — Principles of Continuous Quality Improvement

History and evolution of thought in Continuous Quality Improvement, including the theories and methods of Deming, Juran and Crosby. The quality management process and tools for the continuous improvement of quality are presented. Relevant case studies are included.

VOC BSM12 — **Continuous Quality Improvement Team Building** Advisory Prerequisite: VOC BSM 10

Provides comprehensive instruction in building and using Continuous Quality Improvement project teams including selection of team members and evaluation of team performance. Students completing the course will be qualified to participate as members of Continuous Quality Improvement teams, create and evaluate problem solutions applying tools for improvement planning and team decision making, and build an effective improvement plan.

VOC BSM20 — Principles of Business Overview of business and its functions, background, development, organization and opportunities. Business terms, current trends, methods, contemporary and future problems, and current business practices are covered.	VOC BSM85 — Special Issues in Business Provide business majors with a forum to gain knowledge, develop techniques, problem solve and implement an actual business plan. Special emphasis will be placed on the particular project of the actual business used as the class project.	VOC BSS50 — Retail Store Management and Merchandising Principles and practices used in the management and merchandising of retail stores. Includes all aspects of the critical buying function, merchandising, promotional techniques, site selection, layout, staffing, market positioning and customer service.	
VOC BSM25 — Principles of E-Commerce A hands-on course focusing on learning the principles of E-commerce through the use of the internet. Students study the economic importance of E-commerce domestically and internationally. Includes uses of the	VOC BS005 — Business English Skills and techniques of English, as applied to business situations. Emphasis on effective paragraphs and memos. VOC BS025 — Business Communications	VOC BSS70 — International Marketing Concepts Factors unique to foreign economics, cultural environments, political/ legal problems, marketing intelligence procedures, international product policy, distribution and market channels, promotion and pricing decisions.	
internet, consumer buying, retail and business purchases, internet marketing, digital advertising, global E-commerce and business websites. VOC BSM51 — Principles of International Business An overview of the rapidly changing international business environment, designed to provide a global perspective. Introduces	Written communications including letters and memos meeting a variety of situations in the business environment. Includes writing of good news, bad news, sales, claims and persuasive correspondence; letters and resumes appropriate to job seeking and application; and practicing oral skills as applied to job interviews and business reports.	VOC BSS85 — Special Issues in Marketing Provides marketing majors with a forum to gain knowledge, develop techniques, problem-solve and implement an actual business marketing plan. Special emphasis will be placed on the particular project of the actual business used as the class project.	
global viewpoints across the full spectrum of business functions, including but not limited to: accounting, finance, human resources, management, operations, production, purchasing and strategic planning.	VOC BS026 — Oral Communications for Business Designed to help business people communicate more effectively in spoken communication situations such as training sessions,	VOC CISB15 — Microcomputer Applications Introduction of windows based operating system and applications. Simple business examples using up-to-date browser, word processing,	
VOC BSM52 — Principles of Exporting and Importing Acquaints the student with the vocabulary, acronyms and the basic information needed for an understanding of and participating in the exporting and importing of goods and services.	Presentations, and professional discussions. VOC BS096 — Spelling and Vocabulary for Success Advisory Prerequisite: VOC BS005	spreadsheet, database management and presentation software; and integration of software applications. Hands-on instruction on windows based computers.	
VOC BSM60 — Human Relations in Business Behavior, personality, self-management, self-development, and elementary business psychology as an aid to furthering the student's business advancement and lifelong learning. Class discussions focus on the student's understanding of intrapersonal and interpersonal effectiveness with emphasis on communications, motivation, leadership and other related areas.	Learn to spell and define troublesome words. Improve basic spelling and vocabulary used by business and industry. Includes proper use of dictionary; word division; adding suffixes and prefixes; synonyms; computer-related vocabulary; and business vocabulary. <i>Note:</i> VOC BSO 96A and VOC BSO 96B are equivalent to VOC BSO 96.	OCCUPATIONAL – COMPUTER OPERATIONS VOC CP01 — Computer Keyboarding Basic alpha/numeric keyboarding skills on a personal computer; develops a straight-copy rate of 25 to 40 gross words a minute with a predetermined error limit; includes keyboarding of letters, tables	
	VOC BS096A — Business Vocabulary Develops a broad word command of new and specialized business vocabulary for use in various businesses. Improves vocabulary to	and manuscripts. VOC CP01A — Computer Keyboarding	
VOC BSM61 — Business Organization and Management Functions of management, techniques of decision making and problem solving, and methods used by the manager to achieve organizational goals. Various theories of management, lines of authority, functions of departments, and the importance of policies, procedures, and controls are discussed.	enhance written and oral communication. VOC BSR52 — Real Estate Practice	Develops basic alpha/numeric keyboarding with skills on a personal computer; develops a straight-copy rate of 25 to 30 gross words a minute with a predetermined error limit.	
	Office procedures and practices in listings, advertising, prospecting, financing, exchanges, property management, salesmanship, land utilization and public relations. A course in real estate practice must be completed within 18 months of licensure.	VOC CP01AL — Computer Keyboarding Laboratory A lab study program designed to complement the lecture materials presented in computer program instructional courses.	
VOC BSM62 — Human Resource Management Direction of people including guidance, control, supervisory problems, training, job analysis, interviewing, testing, rating and other functions involving human resources. Designed to improve the overall understanding of the relationship between the individual and the	VOC BSS35 — Professional Selling Principles of selling and the role of a salesperson in the marketing process. Includes characteristics and skills necessary for a successful salesperson, techniques for prospecting and/or qualifying buyers, buyer	VOC CP01B — Computer Keyboarding Develops a straight-copy rate of 25 to 40 gross words a minute with a predetermined error limit and includes keyboarding of letters, tables, and manuscripts.	
business organization. 	behavior and critical steps in the selling process. Students develop and offer a sales presentation for a selected product, service or concept.	VOC CP01BL — Computer Keyboarding Laboratory A lab study program designed to complement the lecture materials	
Practical problems encountered in organizing and operating a small business enterprise: initiating the business, financial and administrative control, legal and government relationships and other related considerations.	VOC BSS36 — Principles of Marketing Organization and function of the system of distributing goods and services from the point of production to the consumer. Preparation of a marketing plan using product, distribution, promotional and pricing strategies.	presented in computer program instructional courses.	

VOC CP02 — Intermediate Computer Keyboarding

Develops computer keyboarding speed and accuracy with a proficiency standard upon completion of 35-55 gross words a minute with a predetermined error limit. Using word processing software, extensive instruction given for formatting of letters, memos, reports, tables and other related business documents.

VOC CP10 — Operating the Macintosh Computer

Basic skills and in-depth practice operating the Apple Macintosh computer. Includes introduction to the operating system, paint, draw, word-processing, database, spreadsheet, and multi-media applications.

VOC CP11 — Internet Research for Business

Practical hands-on instruction using the Internet for research in a business environment. Master Internet-specific research techniques, discover timesaving tips for locating and managing information, and use the entire Internet, newsgroups, FTP (File Transfer Protocol) and mailing lists.

VOC CP12 — Office Computer Applications

Overview of computer applications utilized in the office environment. Includes extensive hands-on instruction in word processing, spreadsheet, data management, and business graphics. Intended for the student who needs to upgrade or acquire office computer skills.

VOC CP13 — Using Web Page Software

Using industry leading Web page authoring software to plan, develop, and publish effective professional websites. Includes working with text and graphics; creating hyperlinks; creating tables and layers; collecting data with forms; adding multimedia objects; creating and applying cascading style sheets; creating interactions and behaviors; publishing a website.

VOC CP150 — Basic PowerPoint

Overview and basic instruction using one of the most popular presentation software packages. Recommended for all students who need to know how to create presentations. Not recommended for Office Technology majors.

VOC CP18 — Data Entry

Data entry using a microcomputer. Includes intensive skill building on the ten-key pad and development of keyboarding skills for entering formatted and non-formatted text, both alphabetic and numeric, in a variety of business applications.

VOC CP20 — Word for Office / Business Professionals

Extensive hands-on instruction using Microsoft Word and its language, editing and formatting tools to create, revise and format various business and report documents. Also create complex publication documents using advanced formatting techniques and tools.

VOC CP28 — Office Management Skills

Training and skill building in filing systems and procedures, proofreading, telephone techniques, faxing, emailing and electronic calendaring of events, appointments and meetings.

VOC CP29 — Computer Keyboard Skills Building

Using microcomputers to increase speed and accuracy through intensive drills. Students will have their keyboarding skill diagnosed and appropriate drill work will be prescribed. Students who repeat this course will improve skills through further instruction and practice.

VOC CP50 — Desktop Presentations using PowerPoint

Use PowerPoint to plan, design, and produce effective presentations. Includes creating charts, diagrams, and storyboards; developing appropriate text content; adding sound, animation, and movies. Students who repeat this course will improve skills through further instruction and practice.

VOC CP60 — Desktop Publishing with InDesign or Pagemaker

Using Pagemaker or InDesign desktop publishing software to integrate text and graphics for designing, editing and producing high-quality business publications.

VOC CP62 — Desktop Publishing with QuarkXpress

Using QuarkXpress desktop publishing software on a microcomputer to integrate text and graphics for designing, editing and producing high-quality business publications.

VOC CP63 — Adobe Illustrator for Desktop Publishers

Using Adobe Illustrator on a microcomputer to design and produce graphic images that can be used independently or incorporated into a page layout or presentation program.

VOC CP64 — Desktop Publishing Seminar

Produce publishing products emphasizing creative design and effective production. Practical experience through working with clients and working in teams.

VOC CP65 — Modifying Images for Desktop Publishing

Using Adobe PhotoShop on a microcomputer as applied from the office perspective. Students will learn to modify images that can be used independently or incorporated into a page layout or presentation program.

VOC CP68 — Transcription Techniques

Develops the language competencies and formatting knowledge required to produce acceptable business documents; emphasizes punctuation, number usage, proofreading, spelling and word division; and reinforces through a series of sentence applications, paragraphs and business documents.

VOC CP-BC1 — Basic Computing Level 1

Introduction to the personal computer, including terminology and basic computer operations in a Windows environment. Instruction is hands-on. *Note:* Students may take this class only 2 times consecutively. Registration is first-come, first-served. Students must register in person, and may register for only one class per site.

VOC CP-BC2 — Basic Computing Level 2

A hands-on course focusing on ways to create documents in applications such as Mircosoft Word; includes basic computer maintenance and problem-solving techniques. *Note:* Students may take this class only 2 times consecutively. Registration is first-come, first-served. Students must register in person, and may register for only one class per site.

VOC CP-BC3 — Basic Computing Level 3

Prerequisite: VOC CP-BC2 Basic Computing Level 2 Designed to increase word processing skills through creative projects which introduce computer graphics. Students will further their understanding of proper computer care and maintenance.

VOC CP-CC — Creative Computing

Develops creative skills in utilizing graphic designs for projects such as business cards, letterhead, labels, flyers, posters, greeting cards and computer-generated fabric designs. Proper marketing skills will also be discussed.

VOC CP-CL — Computer Laboratory

A lab study program designed to complement the lecture materials presented in computer program instructional courses.

VOC CP-NET — Introduction to Internet Research

Includes e-mail, research, terminology and functional capabilities of the Internet.

Note: Registration is first-come, first-served. Students must register in person and may register for only one class per site.

OCCUPATIONAL – COMPUTER TECHNOLOGY

VOC CNET50 — PC Servicing

PC and peripheral servicing techniques, preventative maintenance, hardware configurations, software configurations, software diagnostics, and the use of test equipment.

VOC CNET52 — PC Operating Systems

Current operating systems required for A+ and Network+ Certification and general computer servicing. Topics include: identification of major components, installation, configuration, upgrading and troubleshooting.

VOC CNET54 — PC Troubleshooting

Advanced microcomputer servicing. Includes: isolating, identifying, and repairing specific problems in the computer environment at the hardware level. Prepares students for the A+ Certification Exam.

VOC CNET56 – Home Theater, Home Integration and Home Security Systems

Home theater, home integration, and other home management systems. Emphasis on home theater, home management PLCs, security hardware and programming and the installation and servicing of such systems. Prepares the student for the California State Contractors C-7 voltage systems license.

VOC CNET60 — A+ Certification Preparation

Prepares the student and qualified computer technician for the A+ certification examination. All aspects of the Core and OS test modules will be stressed through both lecture review and test simulation software.

VOC CNET62 — Network+ Certification Preparation

Prepares the student and/or A+ certified technician for the Network+ Certification Examination. Individuals preparing for a job in the computer networking industry or who wish to become Network+ certified will find this course invaluable.

OCCUPATIONAL – CORRECTIONAL SCIENCE

VOC CORS10 — Introduction to Correctional Science

Overview of the field of corrections: county jail, probation, the California Youth Authority and the Department of Corrections as a member of the Criminal Justice System. Includes philosophy, past and the present practices and the criminal justice and correctional processes.

VOC CORS15 — Control and Supervision of the Offender

Examine methods of controlling and supervising inmates. Emphasizes California's methods in rapidly-expanding institutions.

VOC CORS20 — Correctional Law

Legal and due process rights for inmates. Inmate rights vs. needs of society, State, federal and appellate court decisions.

VOC CORS25 — Probation and Parole

Historical development of probation and parole with emphasis on current California programs. Defines the roles of courts, parole boards and the duties and responsibilities of the staff of probation and parole agencies.

VOC CORS30 — Ethnic Relations in Corrections

A historical survey of minority roles, problems and relationships in America. Stresses cultural and racial differences and interpersonal relationships of correctional staff and clients.

VOC CORS35 — Interviewing and Counseling in Corrections

Techniques of interviewing and counseling in the field of corrections with emphasis on practical application. Needs of the client and agency will be stressed.

VOC CORS40 — Crime and Delinquency

Criminal behavior and types of crime and effects on society and victims. Stresses property crime, property offender, motivation and methods of control used by society.

VOC CORS45 — The Violent Offender

Violent crimes of felony assault, robbery, rape, the various types of homicide, and the characteristics of both the offender and the victim.

OCCUPATIONAL – ELECTRONICS

VOC EL10 — Introduction to Mechatronics

An introduction to the field of mechatronics, a combination of conventional electronic technology with mechanical and computer technology. Special emphasis is on robotics. Hands-on activities include the building of a robot.

VOC EL11 — Technical Applications in Microcomputers

Use of the personal computer (PC) in electronics for technically related applications. Includes word processing, spreadsheet, database, computer presentation methods, e-mail and job searches. Students who repeat this course will improve skills through further instruction and practice.

VOC EL12 — Computer Simulation and Troubleshooting

Use of the personal computer for simulation and troubleshooting of both analog and digital electronic circuits. Circuit analysis, value substitution, and fault diagnostics will be done with the emphasis on "Electronics Workbench/Multisim" software. Students who repeat this course will improve skills through further instruction and practice.

VOC EL50A — Electronics Theory

Corequisite: VOC EL50AL

DC circuit theory covering resistive circuits, basic components, Ohm's Law, Kirchoff's Law, and network theorems. (Students seeking a survey course in electronics could take ELEC 90, Survey of Electronics, rather than ELEC 50A or 50B.)

VOC EL50AL — Electronics Laboratory Corequisite: VOC EL50A

Laboratory experiments in DC circuitry covering concepts presented in VOC EL50A. Emphasizes safety, breadboarding skills, data collection and reporting, and test equipment.

VOC EL50B — Electronics Theory

Corequisite: VOC EL50BL

AC circuit theory covering inductors, capacitors, impedance, filters, decibels, and resonance. Analysis involves the use of complex numbers. Stresses passive components.

VOC EL50BL — Electronics Laboratory Coreauisite: VOC EL50B

Laboratory experiments in AC circuitry covering concepts presented in VOC EL50B. Emphasizes breadboarding skills, data collection and reporting, and test equipment.

VOC EL51 — Electronic Devices Theory

Solid-state devices and circuits, including BJT and FET transistors, rectifier diodes, op-amps, voltage regulators, oscillators, and timers. Emphasizes configurations, classes, load lines, characteristics curves, gain, troubleshooting, and frequency response.

VOC EL51L — Electronic Devices Laboratory

Laboratory experiments in solid-state circuitry, covering concepts presented in ELEC 51. Emphasizes bread boarding skills, data collection and reporting, troubleshooting, and test equipment.

VOC EL53 — Communications Circuits Theory

Analog and digital communication circuits theory. Emphasizes analog and digital modulation principles in AM, FM, SSB, PLL, FDM, TDM, modems, fiber optics, and telecommunications circuits.

VOC EL53L — Communications Circuits Laboratory

Laboratory experiments in communication circuits covering concepts presented in ELEC 53. Emphasis is on proper use of test equipment, test procedures, breadboarding, and analysis in both analog and digital modulation circuits.

VOC EL54A — Industrial Circuits Theory

Industrial electronic components and basic control circuits. Includes time delay controls, solid-state controls, relays, opto devices, DC motor control, transducers, SCR, and UJT devices.

VOC EL54AL — Industrial Circuits Laboratory

Laboratory experiments in industrial circuits, covering concepts presented in ELEC 54A. Emphasizes basic industrial control circuits, test equipment, and proper testing procedures.

VOC EL54B — Industrial Electronic Systems

Expands on circuit theory and demonstrates systems application of industrial electronics including robotics, industrial production, automation, programmable and motor controllers. Emphasis is on programmable logic controllers.

VOC EL54BL — Industrial Electronic Systems Laboratory *Coreauisite: VOC EL54B.*

Laboratory experiments in industrial control circuits, covering concepts presented in VOC EL54B. Includes troubleshooting procedures and system application of industrial electronics. Emphasizes programmable logic controllers and use of "ladder diagram."

VOC EL55 — Microwave Communications Lecture

Microwave components, circuit theory, and their applications with emphasis on satellite technology. Stresses Gunn diode oscillators, transmission lines, waveguides, Smith Charts, components, amplification, frequency analysis, and measurement techniques.

VOC EL55L — Microwave Communications Laboratory

Laboratory experiments in microwave communication theory covering concepts presented in ELEC 55. Emphasizes data collection and reporting, measurement techniques, and test equipment.

VOC EL56 — Digital Electronics Lecture

Combinational and sequential logic circuits emphasizing number systems, binary math, basic gates, Boolean algebra, Karnaugh maps, flip-flops, counters, and registers. Stresses design and troubleshooting techniques.

VOC EL56L — Digital Electronics Laboratory

Corequisite: VOC EL56.

Laboratory experiments in combinational and sequential logic circuits covering concepts presented in VOC EL56. Emphasizes bread-boarding skills, data collection and reporting, and test equipment.

VOC EL61 — Electronic Assembly and Fabrication Lecture

Assembly and fabrication techniques in basic soldering, de-soldering and surface mount technology. Construction of coaxial and Category 5 cabling and connectors. Includes an overview of types of printed circuit board design. Students who repeat this course will improve skills through instruction and practice.

VOC EL61L — **Electronic Assembly and Fabrication Laboratory** *Corequisite: VOC EL61 advised.*

Laboratory exercises and projects in electronic assembly and fabrication covering concepts presented in VOC EL61. Emphasizes production types, fabrication methods, design, SMT, PCB artwork, cabling and connectors.

VOC EL62 — Advanced Surface Mount Assembly and Rework

Advanced course in assembly and repair (soldering) on surface mount assemblies. Prepares for the IPC surface mount assembly and rework certifications.

VOC EL74 — Microprocessor Systems Lecture

Emphasizes the software/hardware architecture for the typical microprocessor environment. The software instruction set and the hardware interface circuit design are covered for the microprocessor. Fundamentals and terms are covered for the personal computer (PC).

VOC EL74L — Microprocessor Systems Interfacing Laboratory

Laboratory experiments in microprocessor programming and interfacing utilizing concepts presented in the lecture portion of this class. Emphasis is on the programming and debugging of software programs and interfacing circuits.

VOC EL76 — Radio/Telephone Communications

Prepares qualified electronic technicians for the F.C.C. and/or N.A.R.T.E. commercial licenses for technicians and engineers in the communications field. Students who repeat this course will improve skills through further instruction and practice.

VOC EL81 — Laboratory Studies in Electronics Technology

Extended laboratory experience supplementary to those available in the regular program. Allows the student to pursue more advanced and complex laboratory projects and experiments.

VOC ELM65A — Mathematics of Electronics – DC

Mathematics of DC circuits analyzing passive circuits including Ohm's Law, Kirchoff's Law, voltage dividers, current dividers, and network theorems. **VOC ELM65B** — **Mathematics of Electronics** – **AC** Mathematics of AC circuits analyzing passive circuits including resistance, reactance, impedance, resonance, and complex numbers (polar and rectangle).

VOC TCH60 — Customer Relations for the Technician

Customer relations (soft skills) for the technician, including benefits of knowing and using effective customer contact tools, proper customer interactions, ethics and maintaining customer satisfaction.

OCCUPATIONAL – ELECTRONICS & COMPUTER TECHNOLOGY

VOC EST50 — **Electrical Fundamentals for Cable Installations** Electrical fundamentals for cable and wire installations and other low voltage systems. Includes DC/AC, solid-state devices, digital and microprocessor devices and their application to cable installations. Prepares students for the California State Contractors C-7 low voltage systems license.

VOC EST52 — Fabrication Techniques for Cable Installation

Fabrication techniques used in the installation of home theater, computer networks, home automation, and other low voltage system applications. Emphasis on hand and power tools, construction methods and materials as they apply to cable and wire installations.

VOC EST54 — Cabling and Wiring Standards

Cable and wire standards of video, voice and data wiring for home theater, computer networks, home automation, telecommunications, and other low voltage system installations. Emphasis on copper wire, coax, fiber optic, and structured cables. Prepares students for the California State Contractors C-7 low voltage systems license.

VOC EST56 — Home Theater, Home Integration & Home Security Systems

Home theater, home integration, and other home management systems. Emphasis on home theater, home management PLCs, security hardware and programming and the installation and servicing of such systems. Prepares students for the California State Contractors C-7 low voltage systems license.

VOC EST62 — Electronic Troubleshooting 1

Troubleshooting basic electronic circuits and systems to component level. Circuits include: power supplies, amplifiers, audio circuits, home theater audio (Dolby 5.1) and video circuits (analog TV).

VOC EST64 — Electronic Troubleshooting 2

Troubleshooting advanced electronic video circuits and systems to component level. Includes digital TV and HDTV (plasma, LCD, DLP).

VOC EST70 — **C-7 Low Voltage Systems License Preparation** Prepares students for the California State Contractors C-7 Low Voltage Systems license examination.

OCCUPATIONAL – ENGINEERING DESIGN

VOC EDT11 — Technical Engineering Drawing 1

Basic skills for a solid foundation in the Engineering Drawing or Computer-Aided Design fields. Involves application, basic sketch, theories and design processes used in engineering and industrial drawings. Completion of a portfolio is a requirement of this course.

VOC EDT12 — Technical Engineering Drawing 2

Advanced applications, automated techniques, dimensioning, tolerancing, fasteners, piping, circuit board design, theory used in engineering and industrial drawings. Students will complete a set of working drawings in either manual or CAD for inclusion in a portfolio.

VOC EDT14 — Mechanical Design – Geometric Dimensioning and Tolerancing

Use symbols for tolerance of form and tolerance of position and drawing requirements with respect to actual function and relationship of part features. Studies of related terminology, power transmission, bearing and mechanical devices, related exercises including design layout, details and assembly drawings. Completion of a portfolio is a requirement of this course.

VOC EDT16 — Basic CAD and Computer Applications

Basic CAD (Computer Aided Design and Drafting) and computer application in architecture, engineering and related fields (including basic word processing, spreadsheet, CAD and presentation applications). Students who repeat this course will improve skills through further instruction and practice.

VOC EDT18 — Engineering CAD Applications

Intermediate CAD for engineering, explores the 2-D and 3-D environments, 3-D parametric solid modeling, file manipulation related to Windows platforms.

VOC EDT24 — Engineering CAD 3-D Solids and Surfaces

Advanced engineering CAD for developing detailed working drawings in 3-D environments, incorporating 3-D parametric solid modeling, bill of materials, and surface development. Students who repeat this course will improve proficiency and skill levels.

VOC EDT26 — Civil Engineering Technology and CAD

Theory of civil engineering projects with hands-on instruction in civil drawings and Computer Aided Drafting and Design (CAD) applications. Layout, topography maps, grading plans, sections, street improvements, and interpretation of surveyor's data are covered. Set of CAD drawings produced for a final portfolio.

OCCUPATIONAL – FASHION

VOC FASH08 — Introduction to Fashion

Examines scope of the fashion industry from concept to consumer: industry background and technology. Includes design, manufacturing, distribution, sales and promotion with emphasis on career opportunities and qualifications.

Community Education

VOC FASH10 — Clothing Fundamentals

Development of a basic understanding of industry standard apparel construction techniques using a variety of machines and equipment. Included are marker preparation, commercial patterns, basic block fusing, and garment construction of slim skirt/pants, dress/shirt, and knit "T" shirt.

VOC FASH12 — Advanced Clothing

Industry-quick alternatives to traditional construction and tailoring techniques, using overlock and single needle machines. Hands-on experience using woven fabrics for tailored clothing and novelty knits.

VOC FASH15 — Fashion Strategies

An investigative overview of sociological, psychological, cultural and fashion industry influences on clothing selection. The elements and principles of design and their impact on dress will be explored.

VOC FASH20 — Illustration for Fashion and Costume Design

Drawing techniques for fashion and theatrical costume design. Application of the basic techniques used in drawing a well-proportioned male and female figure and in rendering garment flats using texture, fabric and design detail. Students will explore a variety of mediums.

VOC FASH21 — Basic Patternmaking

Theory and application of basic flat patternmaking techniques to create garment designs using industry standards. By means of dart and seam manipulation, slopers will be created, constructed and fitted.

VOC FASH22 — Fashion Design by Draping

Three-dimensional dress design through draping fabrics directly to a dress form to create original designs or to interpret fashion illustrations.

VOC FASH23 — Patternmaking 2

Intermediate pattern drafting and flat patternmaking, with the introduction to the sizing of patterns/grading. Development of patternmaking skills to include two-way stretch knits, swimwear, and complex construction. Students apply commercial manufacturing standards in producing size ranges for misses' and women's wear, to include skirts, pants, bodices, sleeves and collars.

VOC FASH24 — Fashion Patternmaking by Computer

Applications of Computer Aided Design (CAD) patternmaking and grading for the fashion industry. Exploration of drawing techniques, pattern development, flat pattern manipulation and the sizing/grading of patterns.

VOC FASH25 — Fashion Computer-Assisted Drawing

Drawing production flats, colorization and scanning images using computer as a drafting tool. Exploration of popular computer techniques and methods suitable for use in apparel industry. Concentration on Adobe Illustrator and Adobe Photoshop.

VOC FASH30 — Fashion Design and Product Development I

Overview of the global environment for product development for fashion. Applies the concepts and methods by which retailers create special store-branded merchandise for targeted customer segments. Students will develop financial and design goals, create product concept and line-boards, and evaluate the aesthetic and commercial results.

VOC FASH31 — Fashion Design and Product Development 2

Intermediate fashion students will create and maintain a personal design sketchbook and work with the basic categories of swim wear, active wear, children's and junior clothing. Industrial techniques of drawing production flats and design room sketches are taught in addition to the full fashion figure. Projects will include creation of lines including production flats, textile selection, cost sheets, full-color illustrations and full scale patterns.

VOC FASH32 — Fashion Design and Product Development 3

Advanced fashion design and product development emphasizing, in portfolio format, a minimum of three lines with production flats, scale patterns, pattern charts, cost sheets and sample garments. A design sketchbook will be maintained. Includes resume preparation and job search appropriate for the fashion design industry.

VOC FASH62 — Retail Store Management and Merchandising

Principles and practices used in the management and merchandising of retail stores. Includes all aspects of the critical buying function, merchandising, promotional techniques, site selection, layout, staffing, market positioning and customer service.

OCCUPATIONAL – GEOGRAPHY

VOC GEOG10 — **Introduction to Geographic Information Systems** An introduction to the fundamentals of a geographic information system(GIS), including history of automated mapping; introduction to cartographic principles; overview of software, such as ArcView; hardware; application of GIS technology in environmental sciences, government, business, terminology, data, and spatial analysis.

OCCUPATIONAL – HEALTH

VOC ANAT50 — Basic Anatomy and Physiology

Introduction to human anatomy and physiology by systems, with brief descriptions of biochemistry, cell biology and molecular biology. Upon completion, students will understand normal functions and be able to recognize pathologies.

VOC CPR01 — BLS Heartsaver Course – Adult

This three (3) hour course is designed to teach the life-saving skills of Cardiopulmonary Resuscitation, the first aid techniques for choking emergencies, and how to respond to general life-threatening emergency situations. Students will learn about the risk factors associated with heart attacks and strokes. Successful completion of the course will provide the student with an American Heart Association Heartsaver CPR Level A Completion Card, renewable in two years.

VOC HTH01 — Certified Nursing Assistant

Prepares participant to work in a skilled nursing facility and pass California Long-Term Care CNA exam.

Prerequisites:

- Current American Heart Association BLS for Health Care Providers card (must be valid for course duration)
- Completed Technology and Health Division Student Medical History and Physical exam form within the last 3 months
- Current Live scan fingerprint documentation.
- Valid identification (CA driver's license or CA.ID card) and Social Security card
- Co-requisite: EnrolÍment in VOC HLTH 05

VOC HLTH04 — Acute Care Nursing Assistant

This course will enhance the existing skills of the CNA and provide the knowledge and job skills to work in various departments of acute care hospitals including med-surgical, obstetrics and pediatrics. *Prereauisites*:

- Documentation of completion of CNA Course and successful pass on CNA certification exam
- Current American Heart Association BLS for Health Care Providers card (must be valid for course duration)
- Completed Technology and Health Division Student Medical History and Physical exam form within the last 3 months
- Current Live scan fingerprint documentation.
- Valid identification (CA driver's license or CA ID card) and Social Security card

VOC HLTH05 — Health Careers Resource Center

Provides health occupational students with instructional media and equipment to practice and improve nursing and other health occupation competencies.

VOC HLTH12 — Medical Terminology

Presents a study of the use and meaning of basic medical terminology. A programmed learning, word building system will be used to learn word parts that are used to construct or analyze new terms. Emphasis is placed on spelling, definition, usage and pronunciation. Abbreviations will be introduced as related terms are presented. Special emphasis will be placed on actual case diagnoses, treatments and medical interventions.

VOC HLTH13 — Interpreting in Health Care 1

Skills necessary for effective language interpretation in health care settings; emphasis on the roles and responsibilities of a health care interpreter, basic knowledge of common medical conditions, treatments and procedures, insight in language and cultural nuances for specific interpretation.

VOC HLTH14 — Interpreting in Health Care 2

Further enhancement of interpreting skills learned in VOC HLTH13 covering specialized health care service areas such as genetics, mental health, and death and dying. Emphasis on the development of cultural competency in the community and workplace and careers in interpretation.

VOC HLTH15 — **Externship in Health Care Interpreting** *Corequisite: VOC HLTH20*

Healthcare Interpreting Seminar Facilitating linguistic and cultural communication between client and health care providers.

VOC HLTH16 — Geriatric Resource Specialist

Prepares the participant to utilize available resources for older adults on a national and local basis. Identification of older adults' needs; development of action plans to access appropriate services.

VOC HLTH18 — In-Home Care of Alzheimer's and Dementia Clients

Information and educational activities with techniques to enhance one's ability to work with Alzheimer's/Dementia consumers, with an emphasis on effective communication skills and appropriate activities when working with consumers and delivering direct care.

VOC HLTH20 — Health Care Interpreter Seminar

Principles, issues, concepts, and skills related to the role of the Health Care Interpreter in facilitating linguistic and cultural communications through the externship field experience. Hotel and Restaurant Management

OCCUPATIONAL – HOTEL & RESTAURANT MANAGEMENT

VOC HRM51 — Introduction to Hospitality

Brief review of the historical development of the hospitality industry; social and economic influences on the current leisure industry structures. Career opportunities at various levels in hotels, restaurants, food service institutions and private clubs/resorts. Education and experience requirements, personal qualifications, job responsibilities, job procurement and future opportunities.

VOC HRM52 — Food Safety/Sanitation

Basic principles of sanitation and safety in the food service industry. Emphasis on the role of management in design, implementation and training to establish an effective Hazard Analysis Critical Control point (HACCP) system. Students will have the opportunity to earn the National Restaurant Association's ServSafe Certificate upon completion of this course.

VOC HRM53 — Dining Room Service Management

Skills and knowledge needed for all aspects of dining room service. Exploration of the five different service styles and their relationship to various environments. Table setting styles, buffet set-ups, wine and beverage service, and service as a sales tool are covered. Safety of both customer and staff are discussed.

VOC HRM54 — Commercial Food Preparation

Basic principles of preparing foods for commercial operations; the use and identification of commercial tools and equipment; extending recipes; choosing the proper food grade; evaluation of food products and equipment usage.

VOC HRM56 — Management of Hospitality Personnel and Operations

Management skills course for students pursuing a career in supervision within the restaurant/ hospitality industry. Application of basic management concepts and techniques necessary to achieve objectives in the management of operations and human resources in restaurant and hospitality businesses including analysis of hospitality workplace; the manager's responsibilities in training, coaching and performance appraisal of employees; decision making, leadership and planning.

VOC HRM57 — Restaurant Cost Control

Methods for controlling resources within the hospitality operation to maximize profits without compromising products. Discusses controls in front of the house, back of the house, purchasing and receiving.

VOC HRM58 — Fast Food Service Management

Basic principles of managing a fast food operation. Comparison with conventional restaurants in pricing, labor needs and facilities. Developing and marketing a positive company image. Practical and legal aspects of franchising versus single ownership. Sanitation and cost controls.

VOC HRM60 — Purchasing for the Restaurant Industry

Basic principles of purchasing for the food service industry. Ordering, receiving, storage, characteristics of products and grade selection for different situations are emphasized. Choosing the best supplier, negotiating the best terms and writing product specifications are covered.

VOC HRM61 — Menu Planning

Menu development for all facets of the food service industry including retail and contract operations; emphasis on the economics of the menu with regard to limitations of the facility and staff, pricing and menu design relative to the economy and culture of the target area. Specialty menus such as ethnic, fast food, catering and various contract situations are included.

VOC HRM62 — Catering

Comprehensive exploration of the catering business with in-depth study of organizing and creating both on-premise and off-premise events. Marketing and working with clients to combine menu with price. Contracting outside vendors, problem solving and avoiding common problems before they occur.

VOC HRM64 — Hospitality Financial Accounting

Introduction to financial accounting specifically for the hospitality business. Emphasis is on tailoring the Uniform System of Accounting to hotels, restaurants, clubs and other food service operations.

VOC HRM66 — Hospitality Law

Basic principles of contracts, liability and labor as they apply specifically to the hospitality industry. Students will discuss previous cases and decide the fates of fictional litigations as a preventive approach to problems that can occur.

VOC HRM70 — Introduction to Lodging

Introduction to the basics of the lodging industry. Acquaints students with front office operations, accounting, guest service, housekeeping and food service. Includes human resource management and property management. Enrollment in Work Experience in Restaurant/Food Service (RSTR 91, 92, 93 or 94) is needed for articulation to California Polytechnic State University.

OCCUPATIONAL – INTERIOR DESIGN

VOC ID100 — Fundamentals of Interior Design

Application of design principles and elements in planning of total interior environments that meet individual, functional, legal and environmental needs. Selection of all materials and products used in interior environments will be emphasized for the functional aesthetic quality. (Recommend concurrent enrollment in ID 105.) Manufacturing Technology

OCCUPATIONAL – MANUFACTURING TECHNOLOGY

VOC MFG11 — Manufacturing Processes 1

Manual and computerized manufacturing, manual lathes and mills, tool nomenclature and Computerized Numerical Control (CNC) operations. Operation of CNC machines. Students who repeat this course will improve skills through further instruction and practice.

VOC MFG12 — Manufacturing Processes 2

The study of manufacturing equipment and manufacturing processes. Theory and practice in milling operations, tooling setup, metallurgy, heat treatment, precision grinding, and basic tool design.

VOC MFG15 — AutoCAD 2D

Development of two dimensional AutoCAD mechanical screen drawings, as related to Computer Integrated Manufacturing (CIM), and Computer Aided Machines (CAM). Completed drawings will be translated into DXF and/or IGES files and then transferred to various CAD/CAM systems.

VOC MFG17 — 3-D CAD for Mechanical Modeling

Advisory Prerequisite: VOC CIM 15 or equivalent industrial experience. Development of three dimensional mechanical models using AutoCAD. Includes interaction with Computer Aided Machines (CAM) and Computer Integrated Manufacturing(CIM). Analysis and manipulation of mechanical solid models and industrial primitives as related to their interactions with CAM and CIM systems.

VOC MFG19 — Parametric Solid Modeling for Manufacturing

Development of feature-based solid modeling on a computer using current industry software. Transfer of solid model to a CAM system for CNC code production. Includes production of a manufactured part using CNC mill. COMMUNITY EDUCATION

Community Education		
VOC MFG25 — Advanced Parametric Solid Modeling for Desktop Advanced instruction in concepts, practice, and development of feature- based solid modeling using Autodesk Mechanical Desktop. Advanced features of solid modeling; global variables, 3-D helical paths generation, surface cut, table-driven parts, and advanced scene and assembly techniques. Students who repeat this course will improve	VOC MFG70 — Technical Mathematics – Manufacturing Applications Applications of mathematical principles in manufacturing. Includes arithmetic calculations, measurement, use of formulas, geometry, and trigonometry. Students who repeat this course will improve skills through further instruction and practice.	VOC GRP14 — Digital Color Management Advanced techniques of digital photo color management systems and workflow. System color architectures, monitors, printers, proofers and other digital devices; spectrophotometer techniques; scripting Photoshop actions, using "digital raw" meta data to organize photo storage; advanced special editing techniques for 16-bit raw color and
skills by further instruction and practice. VOC MFG27 — AutoDesk Inventor	VOC MFG85 — Manual CNC (Computerized Numerical Control) Operations Theory and practice in manually developing CNC programs. Methods of	grayscale images. VOC GRP16 — Digital Image Design with Illustrator & Freehand Basic digital image drawing techniques using Adobe Illustrator or Macromedia Freehand. Includes software tools, applying color, using layers, typography, measurement, and paper systems. Practice importing photo scans, creating layouts, layer animation, choosing fonts, special effects, export file formats, and output in a digital workflow.
Advanced concepts, practice, and development of feature-based solid modeling using AutoDesk Inventor. Solid modeling parts creation using sketched, placed, and work features. Assembly techniques, working drawings, and the transfer of a solid model to a CAM system.	transmitting data to CNC machines and physical set-up and operations of CNC equipment. Students who repeat this course will improve skills through further instruction and practice. OCCUPATIONAL – NUTRITION	
VOC MFG38 — MasterCAM 1 Use MasterCAM software to create wire-frame part geometry, add tool paths and create CNC code for CNC mills and CNC lathes. Students who repeat this course will improve skills through further instruction	VOC NF81 — Cooking for your Heart and Health Skills in healthful food preparation emphasizing foods low in fat, cholesterol and sodium, and high in fiber and nutrients.	VOC GRP18 — Advanced Image Design – 3D Modeling Techniques Advanced digital image drawing emphasizing creation of photorealistic 3D models and environments. Principles of perspective, coordinate space, photographic lighting, object animation, photo and video texture mapping, and common techniques for rendering still or animated
and practice. VOC MFG38B — Advanced MasterCAM	VOC NF82 — Vegetarian Cuisine Investigates nutritional issues related to vegetarian eating practices. Includes laboratory experience in preparation of vegetarian foods and meals.	
Use MasterCAM software to create wire-frame 3D/multi-axis part geometry, add tool paths, and create CNC code for CNC mills and CNC lathes. Students who repeat this course will improve skills through further instruction and practice.		QuickTime image movies for digital compositing and post-production.
	OCCUPATIONAL – PHOTOGRAPHICS & PHOTOGRAPHY	Principles of digital storytelling, combining still photos, graphics image type, video, and audio content output to digital CD or DVD media, vide
VOC MFG38C — MasterCAM Solids Using MasterCAM software to design wire drawings, translate to solids drawings, and generate code from a solids creation to meet industrial standards. Students who repeat this course will improve skills through	VOC CP-DI — Digital Photography for the Beginner Operation of digital cameras, image management and composition, development of research skills using the Internet, and imaging graphics	or Web pages. Commonly used tools and techniques of Apple's iPhoto, iMovie, iDVD, iTunes, GarageBand, and QuickTime Pro multimedia software, Mac OS X features, and other multimedia software and hardware.
further instruction and practice.	software. A hands-on course which includes scheduled field trips.	VOC GRP28 — Digital Portfolio Preparation of a personal computer graphics portfolio containing key
VOC MFG39 — SurfCAM 1 SurfCAM software used to create part geometry from project drawings for two-axis milling and turning parts. Tool paths will be added and files completed and post-processed. Files will be downloaded to CNC machines. Students will be required to set up all cutting tools and machine the part. Students who repeat this course will improve their skills through further instruction and practice.	Provides computer laboratory experience to supplement the regular program, and provides opportunities for students to pursue more advanced projects. Students who repeat this course will improve skills through further instruction and practice.	samples of work for presentation or career evaluation. The portfolio displays the learner's skills mastery, knowledge, and capacities for communicating, synthesis and problem solving.
		VOC GRP48 — Introduction to Digital Design Systems Introduction to digital design systems as they relate to computer graphics. CPU type and speed, graphic accelerators, storage media, digital color space, input/output devices, and scanning devices will be emphasized. Software unique to digital design and file management techniques will also be presented.
	VOC GRP10 — Photo Editing with Photoshop Basic techniques to adjust and modify photos using Photoshop software tools. Includes digital color theory and photo quality standards; practice photoscan reproduction, resolution and scaling, masking, layer editing and effects, filters, color correction and file formats; output for editing, restoring and structure.	
VOC MFG39B — SurfCAM 2 Use SurfCAM software to create part geometry for three-axis milling and lathe parts from project drawings and CAD files. Tool paths will be		

VOC PH001 — Laboratory Studies in Black & White Photography

pursue more advanced projects and experiments.

VOC PH002 — Laboratory Studies in Color Photography

will improve skills through further instruction and practice.

Extended black and white laboratory experiences to supplement those

available in the regular program. Provides students the opportunity to

Extended color laboratory experiences to supplement those available in

the regular program. Provides students the opportunity to pursue more

advanced projects and experiments. Students who repeat this course

restoring, and retouching.

VOC GRP12 — Advanced Photo Editing with Photoshop

Advanced training in Photoshop editing, color, exposure, sharpness and

imaginary photo illustrations using 8- and 16-bit high resolution images.

contrast enhancement, layer and object masking, vector tools, image

composting and the uses of blended modes; design of realistic and

IN Sollware to create part geometry for three-axis mining and lathe parts from project drawings and CAD files. Tool paths will be added and the completed file will be post-processed and downloaded to CNC machine. Students will set up the required cutting tools and machine the part. Students who repeat this course will improve skills through further instruction and practice.

VOC MFG58 — Blueprint Reading for Manufacturing

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Blueprint reading as a means of interpreting and visualizing drawings used in manufacturing. Includes the basic print form, title block, notes, materials, machining specifications, application of principles to CNC, welding, and sheet metal. Students who repeat this course will improve skills through further instruction and practice.

VOC PH004 — Digital Cameras and Composition

Use of digital cameras, lenses, filters, and exposure to compose quality photographs. Shooting assignments are given for analysis in class. Camera will be required after the second week.

VOC PH010 — Basic Digital & Film Photography

The basic mechanical, optical and chemical principles of photography, including digital image systems. Laboratory experience involves problems related to camera and image output techniques.

VOC PH011 — Advanced Professional Photography

Exploration of current professional techniques. Includes studio and field assignments related to problems encountered in advanced photography. Topics include but are not limited to: medium and large format cameras, studio product and portraiture, strobe and tungsten lighting, and computer basics for professional photographers.

VOC PH012 — Photographic Alternatives

Explores the use of continuous tone and alternative black and white techniques and processes. Emphasis will be on solving photographic problems through the use of current techniques such as montage printing, Polaroid and xerographic applications, hand coloring, and emulsion coating (cyanotype, Luminous/LiquidLight) as well as other special techniques.

VOC PH015 — History of Photography

Survey of the history of photography from circa 1839 to the present. An introduction to concepts of photographic representation and their impact on society.

VOC PH016 — Fashion Photography

Illustrative, editorial and advertising fashion photography. Studio and location production in both black and white and color are emphasized. Aspects of business operation and working with clients are explored.

VOC PH017 — Photocommunication

Explores the application of the photosensitive materials, photochemicals and optics. The emphasis will be on the aesthetic and expressive uses to which these materials lend themselves. The student is expected to supply his/her own adjustable camera.

VOC PH018 — Portraiture and Wedding Photography

Techniques and photographic procedures for taking informal, formal, environmental and group portraits. In-depth study and practice in professional wedding photography.

VOC PHO20 — Color Photography

An introduction to current methods of producing color media, color negatives, positive transparencies, and outputting color prints.

VOC PH021 — Exploring Color Photography

Explores the application of color processes as they relate to commercial and artistic styles. Emphasis is on innovative use of color and contemporary techniques. Includes media manipulation and unique processing, coloring negatives, 8x10 Polaroid, digital imagery, specialized lighting, set building and quality control.

VOC PHO28 — **Photography Portfolio Development** Development of photography portfolio either for job application or gallery exhibition purposes.

VOC PH030 — Commercial & Illustrative Photography

Application of photographic principles to commercial and illustrative photography. Practical experience in studio product photography, illustration, fashion and architectural photography. Areas of promotion and pricing will be covered. Both black and white and color media will be used.

OCCUPATIONAL – SERVICE LEARNING

VOC SL1 — Service Learning/Seminar for Health Occupations Prepares students with related experiences in health occupations. Examines and profiles community health care needs. Explores and directly allows students to interface with various patient populations. Weekend and overnight labs to various areas within California maybe offered. Out-of-class projects required.

VOC SL3 — Service Learning/Seminar in Community Involvement Examines and profiles community needs through service learning. Explores and allows students to directly interface with community populations. Permits students the opportunity to explore various career options through community service. Enriches personal and career development through understanding of civic and social issues.

VOC SL4 — Service Learning and Community Involvement

Examines and addresses community needs through service learning. Students directly interface with community populations to identify needs and implement activities. permits exploration of service-oriented career options. Enriches personal and career development through understanding of civic and social issues.

OCCUPATIONAL – SPECIAL NEEDS POPULATION

VOC CIS-CO — Computer Operations

Training in basic computer skills such as starting a computer, setting up user preferences, mounting disc drives and practicing basic software application programs including word processing, simple spreadsheets and typing programs.

VOC MFG-AR — Assembly Repair Skills

Training in assembly operations, machine and maintenance repair; service occupations such as janitorial services, grounds keeping, etc. Develop and practice assembly skills through simulated and real work situations.

OCCUPATIONAL – STAINED GLASS PRODUCTION

VOC STGLS1 — Beginning Stained Glass

Basic steps of stained glass construction, both lead and copper-foil techniques. A supply list will be handed out at the first class meeting. Students are responsible for their own materials.

VOC STGLS2 — Advanced Stained Glass

Advanced stained glass techniques will include the construction of windows, lampshades and/or specialized gift items. Approach to marketing and selling of items will be included. A supply list will be handed out at the first class meeting. Students are responsible for their own materials.

OCCUPATIONAL – THEATER & THEATER ARTS

VOC THTR14 — Stagecraft

Theory and practice of stage design and lighting. Practical work in scene design and construction and lighting layouts, with the opportunity to perform these tasks in actual theatre situations. By virtue of the wide range of productions staged by the department, students who repeat this course will increase their skills and proficiency.

VOC THTR15 — Play Rehearsal and Performance

Participation under faculty supervision in the planning, preparation and presentation of college-sponsored dramatic presentations. Emphasis on acting with some technical theatre assignments. Students who repeat this course will improve skills through further instruction and practice.

VOC THTR16 — Theatrical Make-Up

An introduction to the theory and practice of make-up for the stage. The student will gain practice in the design and application of straight, stylized character, and other make-up techniques.

VOC THTR18 — Technical Theater Practicum

Participation in the technical preparation and operation of productions presented to the community. The student will be involved in one or more of the following areas: stage scenery construction, stage lighting set up, property construction, stage sound set up, costume construction and make-up. Crew assignments will be given to the student upon enrollment. The availability of assignments is contingent upon the requirements of the production. Students who repeat this course will improve skills through further instruction and practice.

VOC THTR19 — Theatrical Costuming

The study of costume history, principles of costume design, fibers and textiles, basic costume construction and design rendering techniques. Costume crew assignments for major productions will provide practical instruction in actual performance demands on costumes and their proper maintenance. Class is suitable for people interested in costuming for theater, dance, film, television and reenactments.

VOC THTR60 — Children's Theatre

A comprehensive study of theatre for the child audience in theory and practice. Specifically seeks to evaluate play production techniques and literature with an eye to the needs of an audience of children. Includes history of children's theatre, analysis of plays for children and actual experience in acting, directing and producing children's plays for public presentation. Students who repeat this course will improve skills through further instruction and practice.

OCCUPATIONAL – WELDING

VOC WLD30 — Metal Sculpture

For students interested in art seeking the proper operation of welding processes related to the sculpting industry. Emphasizes the fundamentals of three-dimensional design. Includes demonstrations and exercises in welding as it relates to the art industry.

VOC WLD40 — Introduction to Welding

Fundamentals of welding processes related to the areas of fabrication, construction, machine tool, aerospace and the transportation industries.

VOC WLD50 — Oxyacetylene Welding

Oxyacetylene fusion welding, non-fusion welding and cutting. Develops understanding of and fundamental skills in modern welding practices.

VOC WLD51 — Basic Electric Arch Welding

Basic electric arc welding, weld symbols, standard electrode and alloy electrode selection, American Welding Society (A.W.S.) procedure for certification.

VOC WLD53A — Welding Metallurgy

Designed for students seeking a career in welding and welding inspection. Covers structure of matter, chemical, physical and mechanical properties of metals, principles of alloying, solid state diffusion, plastic deformation and heat treatment.

VOC WLD60 — Print Reading and Computations for Welders

Reading prints and performing computations for welding fabrication operations. Interpreting and visualizing prints, title blocks, welding symbols, specifications, notes, and bills of materials. Computations necessary to calculate materials, costs, sizes, and fractional, decimal and metric conversions.

VOC WLD70A — Beginning Arc Welding

Develops manipulative skills and techniques for the beginning student welder on the shield metal arc (SMAW) and the flux cored arc (FCAW) welding processes in the flat and horizontal positions using AC and DC welding currents on carbon steel.

VOC WLD70B — Advanced Arc Welding

A continuation of Beginning Arc Welding (WELD 70A). Emphasis is on welding high alloy steel with both SMAW and FCAW processes in the vertical and overhead positions. Designed to refine previously acquired welding skills.

VOC WLD70C — Certification for Welders

Study of building construction for the advanced arc welding student. Special emphasis will be placed on welding symbols and the American Welding Society's (AWS) D1.1 and D1.3.

VOC WLD80 — Fabrication and Construction Welding

Theory and practical applications of welding used in industry and construction. Designed to adapt and upgrade skills to industry standards. Includes project models such as ornamental iron gates and fences and material storage components.

VOC WLD81 — Pipe and Tube Welding

Advanced course designed to enable students with "all positions" welding skills in SMAW to apply welding skills to the pipe welding industry. Welding processes will include SMAW, GRAW, GMAW, FCAW on a variety of materials and configurations on sub-critical and critical piping and tubing.

VOC WLD90A — Gas Tungsten Arc Welding

Advanced level class in Gas Tungsten Arc Welding (GTAW, also known as TIG) of steel, aluminum, CRES and exotic metals. All position welds with many surfaces and transitions.

VOC WLD90B — Semiautomatic Arc Welding Process

An integrated review of Semiautomatic Welding Processes including Gas Metal Arc Welding (GMAW), Flux Cored Arc Welding (FCAW), Submerged Arc Welding (SAW) with solid and tubular wires with and without gas shielding. All position welds with many varying thickness will be covered.

VOC WLD91 — Automotive Welding, Cutting and Modification

Instruction in the art of welding and cutting on metals commonly used in the automotive industry. Gas Metal Arc (MIG), Gas Tungsten Arc (GTAW), PlasmaArc cutting and oxyfuel cutting and welding will be covered.

OCCUPATIONAL - WOODWORKING

VOC WOOD01 — Beginning Woodworking

Designed for students with little or no wood- working experience. Includes use of hand tools and power woodworking equipment with an emphasis on safety.

VOC WOODO2 — Intermediate Woodworking

Prerequisite: VOC WOOD 01 or equivalent experience. Intermediate woodworking which includes designing, cost analysis, craftsmanship and occupational opportunities in the field. Elementary joinery, adhesives, simple production techniques, and wood finishes will be covered.

VOC WOOD03 — Cabinetmaking/Woodworking

Students who wish to take this course must have completed a beginning woodworking class. Project proposals are created by students in accordance with their background and interests. Includes recognition of wood varieties, their basic characteristics and applications.

OLDER ADULTS

OAD ART14 — Introduction to Art Fundamentals

An entry level course designed for non-art majors emphasizing creative expression through the visual arts. Painting, drawing, printmaking, and sculpture are explored to introduce the student through various media to the arts.

OAD ART15B — Beginning Drawing

Drawing emphasizing further development of perceptual and technical skills attained in ARTD 15A. Students will advance their abilities in dry and fluid media, while expanding their use of the formal elements and principles in both representational and expressionistic styles.

OAD ART20 — Intro Exhibition Design and Professional Practice

Provides knowledge and hands-on skills in exhibition design and installation to display an esthetically effective art exhibition. Students will be familiarized with the necessary practical knowledge used by an emerging artist; historical and contemporary terms, examination of culture and universal symbology and application, issues, theories, movements and media in the context of art exhibition productions.

OAD ART25A — Painting

Emphasizes creative self-expression through the painting media. Students will develop the ability to conceptualize and solve compositional and technical painting problems.

OAD ART30A — Ceramics

An exploration of ceramic techniques and creative expression. Includes vocabulary, theory, elements and principles of ceramic form through projects and critique.

OAD ART33 — Ceramics – Hand Construction

Basic methods of hand construction. Special projects in structural, architectural and sculptural form.

OAD ART40A — Beginning Sculpture

An overview of traditional and contemporary approaches to sculpture. Emphasizes principles of sculptural design and concept development. Includes exploration of technique and materials as an integral part of creative expression.

OAD ART41A — Life Sculpture

Modeling from the human figure with emphasis on composition, gesture, motion and human anatomy as it informs sculptural form. Development of perceptual and technical skills in clay modeling from the human figure.

OAD ART41B — Life Sculpture

Sculptural study of human figure with emphasis on composition and human anatomy. Advanced projects using materials and techniques suitable for the human form. Students who repeat this course will further develop perceptual skills in clay modeling from the human figure.

OAD ART42 — Sculpture – Mold Making

Construction and use of flexible and plaster molds. Students who repeat this course will improve skills by further instruction and practice.

OAD ART43 — Printmaking – Silk Screen and Intaglio

Techniques of making fine-art original prints using the processes of stencil and intaglio hand printing. Screen prints, etchings and aquatints are emphasized as well as other related methods and new technologies. Students who repeat this course will improve skills through further instruction and practice.

OAD ART44 — Printmaking – Relief & Lithography

Development of the creative techniques of making fine art original prints using the processes of relief and planography hand printing. Woodcuts, linoleum cuts, monotypes, embossments, collographs, stone and aluminum plate lithography are explored. Students who repeat this course will improve skills through further instruction and practice.

OAD ART45 — Printmaking – Silk Screening

An intensive study in the use of silk-screening as an art form. Tuscheglue, direct block cuts, paper and lacquer stencils and photographic method will be emphasized. Students who repeat this course will improve skills by further instruction and practice.

OAD ART46 — Sculpture – Special Effects Makeup

Advisory Prerequisite: OAD ART 41A and/or OAD ART42 Modeling, molding, casting and application of special effects make-up appliances and masks to the human anatomy as it informs sculptural form and specialized molding and casting techniques and materials.

OAD EDSE02 — Lifelong Learning for Older Adults – Physical Fitness Maintain and/or improve overall physical fitness through a variety of conditioning exercises specifically designed for the older adult.

OAD EDSE03 — Lifelong Learning for Older Adults – Crafts

Develops creative and artistic skills through visual and fine motor coordination utilizing various arts and crafts material. Students will learn skills to make crafts while sharing individual artistic expertise with peers.

OAD EDSE04 — Lifelong Learning for Older Adults

Improve and/or maintain the mental fitness of the older adult through educational activities promoting critical thinking skills. Students will be presented with mental exercises and intellectual stimulation to enhance cognitive skills.

OAD EDSE05 — Lifelong Learning through Current World Events

Presents current events in a variety of ways to provide education about local, national and world issues to promote mental fitness of the older adult.

OAD FINA01 — China Painting

Introduces the fine art of china painting through the basic understanding of the color wheel, design, etching on china, gold work, luster, raised paste for gold, matte colors and use of the kiln. Students progress at their own rate and will receive a supply list at the first class meeting, or may purchase supplies from instructor as appropriate.

OAD FINA03 — Oil Painting

Provides the fundamental principles of drawing, design, color and composition for oil painting. Emphasis will be on creative expression to develop primary skills and techniques for oil painting as they relate to composition and technique. Students will receive a supply list at the first class meeting, or may purchase supplies from instructor as appropriate.

OAD FINA04 — Watercolor Painting

The fundamental principles of watercolor painting. Emphasis will be on creative expression to develop primary skills for watercolor painting as they relate to composition and technique. Students will receive a supply list at the first class meeting, or may purchase supplies from instructor as appropriate.

OAD FINA05 — Creative Writing (Writing your Autobiography)

Write about your own memories and experiences for the purpose of creating articles, souvenir memoirs, and construction of your life story through discussion, sharing of experiences and recalling past events. This class is suitable for all levels of writers; includes writing exercises and analysis. Long-hand method of writing will be used.

OAD FINA32 — Drawing – Beginning through Advanced

Drawing while emphasizing the development of perceptual and technical skills. Students will advance their abilities in dry and fluid media while expanding their use of the formal elements and principles. The development of works of art will utilize observation of single objects, still life, and landscape for representation and expression. Students will receive a supply list at the first class meeting, or may purchase supplies from instructor as appropriate.

OAD FOKA04 — Quilting

Learn patchwork, appliqué, and various ways to form quilting patterns and gain working knowledge of hand or machine quilting. Information on materials, equipment, planning, design and general methods in creating a quilt will be covered. Students will receive a supply list at the first class meeting, or may purchase supplies from instructor as appropriate.

OAD HLTH02 — Healthy Cooking for Older Adults

Plan simple, healthy meals for the older adult. Identify how to stock a kitchen with quality foods as dietary guidelines are presented. Includes easy microwave oven cooking, cuisine for singles and doubles, and meals to cook once and eat twice! Food safety concerns will also be discussed.

OAD MOEXO1 — Mobility through Exercise – Physical Conditioning For older adults who are interested in improving their physical

For older adults who are interested in improving their physical condition. Involves all major muscles promoting strength and toning, improving range of motion and flexibility, and increasing endurance and coordination. Students are encouraged to participate at their own level. Appropriate music is utilized to enhance student motivation and class participation.

OAD MOEXO2 — Mobility through Exercise – Slow Stretch/ Thai Chi Movement

Designed to increase strength and agility while improving peace of mind and reducing stress. Involves low impact movements that flow at a smooth, even tempo, making for improved balance as body weight is shifted. The movements will result in high levels of body control and increased powers of motion concentration. Several different moves of Tai Chi will be experienced.

OAD MOEX04 — Mobility through Exercise – Yoga

Yoga is an ancient system of gentle stretching exercises and breathing techniques that enhance physical well-being. Focuses on Yoga methods that improve stamina, lung capacity, flexibility, muscle tone, circulation, cardiovascular performance and respiration.

OAD MOEX06 — Mobility through Exercise – Water Exercise

This low impact water exercise program involves aerobic conditioning, strength training, and stretching in a water environment which minimizes impact on joints and the body. Swimming skills are not required for participants. This is not an individual swim class.

OAD MOEX07 — Mobility through Exercise – Physical Fitness using Music to Enhance Skill Development

Enables students to increase balance, coordination, strength, flexibility and memory function through a progressive fitness program using music to enhance skill development.

OAD MOEX09 — Mobility through Exercise – Strength Training using Resistance Bands

Resistance training for isolation of targeted muscle groups to increase strength, range of motion, flexibility, and increase bone density using toner bands. Designed to challenge all major muscles. Students are encouraged to participate at their own level. In addition, slow stretching and breathing techniques will be taught.

OAD MOEX10 — Beginning Self-Defense for Older Adults

Effective self-defense techniques for older adults to use at home, work, traveling or just out and about on a daily basis. The focus is on techniques that are highly effective and easy to learn, with no prior experience necessary. Learn self-defense techniques and gain knowledge to reduce your risk of becoming a victim of crime.

OAD MOEX11 — Fall Prevention – Balance and Mobility

Addresses, particularly for older adults, the risks and fears associated with falling. Includes setting realistic goals, minimizing environmental risks and balance exercises.

OAD MUS-CE — Creative Expression through Music Promotes creative expression through music and includes discussion, singing, listening and interaction for older adults. Concentration will be on various musical styles and historical periods in which music plays specific roles. OAD MUS01 — Concert Music Lectures, demonstrations, recitals and media presentations by faculty, quest artists and students. Course content will differ each time it is offered. Attendance at live concerts may be required. OAD MUS19 — Elementary Organ

Group and individual instruction in registration, pedal technique, and interpretation of standard organ literature will be given in this course.

OAD MUS25A — Jazz Improvisation (Instrumental or Voice)

Styles and techniques of improvisation. Each student must furnish his/her own instrument and be able to perform individually and with the class. Students who repeat this course will improve skills through further instruction and practice.

OAD MUS25B — Jazz Improvisation

Styles and techniques of improvisation. Each student must furnish his own instrument and be able to perform individually and with the class.

OAD MUS30 — Collegiate Chorale

A non-auditioned mixed choral ensemble open to all students. A variety of mixed choral repertoire will be studied and performed, from music of the Renaissance to contemporary Pop, Broadway, and Vocal Jazz. Rehearsal time will also be devoted to vocal development and improving music theory skills.

OAD MUS32 — Masterworks Chorale

This SATB choir will perform major choral works ranging from the Barogue era to the 20th century. Although there is no audition required for this group, prior choral experience is preferred. In addition to preparation and performance of quality choral literature from all genres, time will be spent on vocal development and music theory.

OAD MUS36 — Concert Band

The group will study and perform standard and new band literature. Experience will be given to capable student directors, soloists, arrangers, and composers. Attendance is required at all public performances.

OAD MUS38 — Ensemble

The study and performance of music written for small ensembles. Students who repeat this course will improve skills through further instruction and practice.

OAD MUS39 — Laboratory Band

Study and performance of jazz and popular music of all types. Provides the necessary training and experience for MUS 47, Jazz Band, or for the improvement of skills necessary for employment in the field. Students who repeat this course will improve skills through further instruction and practice.

OAD MUS47 — Jazz Band

Lectures, demonstrations, recordings, rehearsals, and performance will cover all types of popular music and jazz. Preference will be given to performers playing more than one instrument.

VOC ESD02 — Production of Boutique Craft for Retail Sales

Prepares the student to create individual designs for mass production and/or one-of-a-kind crafts. Marketing, pricing, cost analysis and proper care of equipment included. Students will receive a supply list at the first class meeting.

VOC ESD03 — Lettering Styles and Advertising Calligraphy

Presents styles of calligraphy as they are used in the arts, media, and advertising fields. Includes proper placement and proper size of lettering styles. Students will receive a supply list at the first class meeting.

VOC ESD05 — Ceramics – Intermediate Production

Includes the techniques used to create finished ceramic pieces; including the art of chalking on ceramics in the bisgue form and wood surfaces by using oil based stains, metallic stains, colored creams, rubs and metallic and bronze finishes. Finalizing some pieces with electrical parts and mounting on wood bases will be considered. Discusses proper equipment usage and maintenance. Marketing and cost analysis will be covered. Students will receive a supply list at the first class meeting.

VOC ESD06 — Craft Painting for Business Opportunities

Painting on all types of surfaces including fabric, glass, wood, tin, plaster and plastic. Creativity and individual expression will be encouraged. Special painting techniques on each type of surface will be demonstrated and discussed. Includes product design, marketing and proper use of equipment and maintenance. Marketing and cost analysis will also be covered. Students will receive a supply list at the first class meeting.

VOC ESD07 — Handcrafted Needlework for Retail Sales and Boutiques

Presents basic needlework techniques in knitting, crocheting, needlepoint, crewel embroidery, and plastic canvas for mass production as well as one-of-a-kind creations. Students solve fitting problems and make professional-looking garments. Includes proper yarn selection, pattern selection, proper maintenance of equipment and organization of work. Students will receive a supply list at the first class meeting.

VOC ESD08 — Jewelry Production and Design for Retail Sales

Wire-worked jewelry design and production for marketing. Techniques such as wire wrapping, coiling, hammering, etc., which may incorporate beads, cabochon stones and free-form gemstone slabs will be covered. Discussion of proper equipment and maintenance, proper display for sales purposes, pricing and inventory control will be taught. Students will receive a supply list at the first class meeting.

VOC ESD09 — Sewing and Design

Presents basic sewing techniques for mass production as well as one-ofa-kind creations. Learn to solve fitting problems and make professional looking garments. Tailoring, pattern making, cutting and style design will be taught. Students are responsible for their own supplies and equipment. Proper maintenance of equipment and organization of work will be covered. Students will receive a supply list at the first class meeting.

VOC ESD10 — Beginning Decorative Art Production for Retail Sales

Introduction to acrylic paints and associated mediums including painting on a variety of surfaces. The use of tole decorative art brush strokes will be incorporated into a step-by-step method on specific projects. Marketing and pricing of finished products will be presented.

VOC ESD11 — Intermediate Decorative Art Production for Retail Sales

Use of acrylic paints and associated mediums including painting on a variety of surfaces. Patterns are provided for student's use. More advanced tole decorative art brush stroke techniques will be incorporated into a step-by-step method on specific projects. Includes marketing and pricing of products. Students will receive a supply list at the first class meeting.

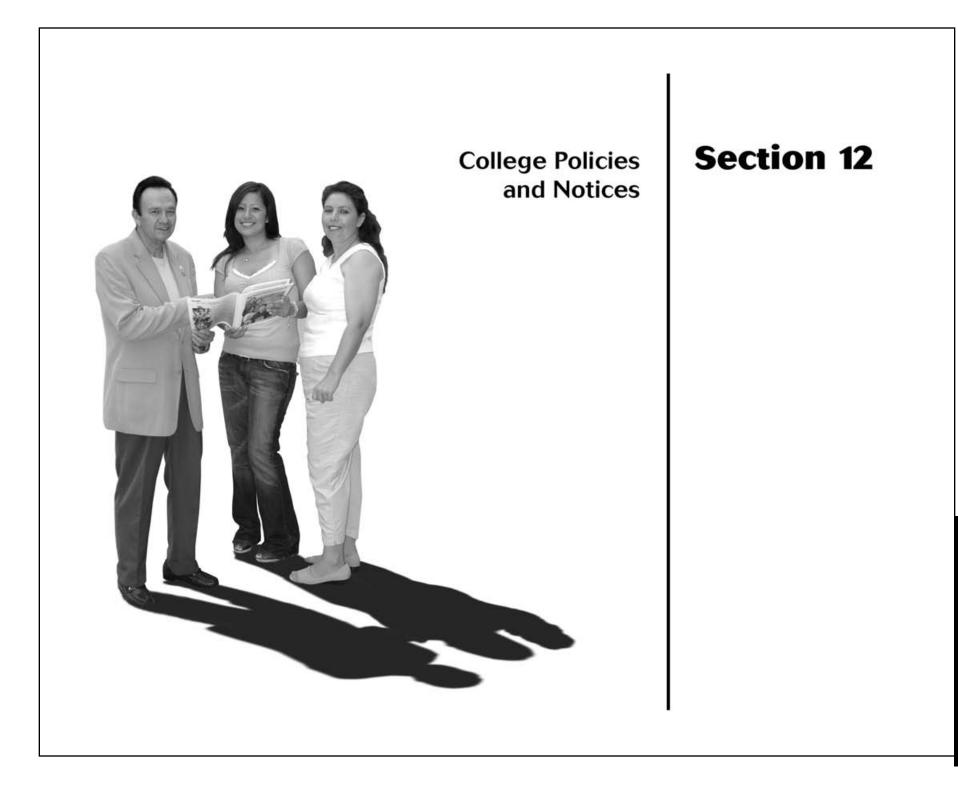
VOC ESD15 — Jewelry/Lapidary Production Design

Jewelry making and stone cutting/polishing, lapidary work. Includes appropriate maintenance of equipment and workshop safety. Includes outings to jewelry suppliers, shows and rock hunting trips.

PARENT EDUCATION

PAED CHLD01 — Parent Participation Pre-School

Children's developmental stages and parenting skills through participation in discussions and classroom activities. Parents attend with their children, ages 2-5. Children participate in structured activities in preparation for future educational experiences.



COLLEGE POLICIES

Alcohol and Other Drugs

The possession or consumption of alcoholic beverages or illegal drugs prior to, or during any College-sponsored activity, on or off-campus, by any person attending, regardless of age, is forbidden by State law.

The Federal government has mandated that as of October 1, 1990, there will be no drug usage by students, staff, or faculty on college campuses anywhere in the United States. Please see the latest *Schedule of Classes* for the College's Alcohol and Other Drugs Policy.

Animals on Campus

Board Policy does not allow for any animals on campus except as provided for by the California Penal Code, Section 365.5 (specially trained guide, signal, or service dogs). Leaving a pet in a parked vehicle, no matter what provisions are made for its safety, may constitute unnecessary suffering or cruelty which is a violation of California Penal Code 597.

Campus Disturbances

In accordance with California Penal Code (P.C. 626.6), the willful disturbance of classes, College activities, or procedures is a misdemeanor.

Campus Hours

The College offers instruction between the hours of 6:30 a.m. and 10:00 p.m., Monday through Sunday. Office hours vary depending on the services provided. Refer to the latest *Schedule of Classes* or call for specific office hours.

Children on Campus

While on the campus of Mt. San Antonio College, children under 12 years of age who are not approved for enrollment must be directly supervised at all times by a responsible adult. Such children shall not be left unattended in College buildings, outdoor areas, or in private automobiles.

Classroom Visitors

No person may be allowed to attend a regularly scheduled class unless officially registered for that class. Permission to visit a class must be secured from the professor. A visitor shall not attend class on a regular basis. Examples of visitors include: guest speakers, student friends, potential students, or minor children of officially registered students. Unauthorized visitors may be removed from the classroom by request of the Division Dean or designee, or other manager of the Instruction or Student Services Team.

Dress Regulation

Students are expected to dress in accordance with commonly accepted standards of appropriateness. It is mandatory that shoes be worn as general campus attire.

Driving and Parking

Users of Mt. San Antonio College campus roads and parking areas must observe and obey all traffic laws of the State of California and the College traffic and parking regulations adopted pursuant to Section 21113 of the California Vehicle Code and the Mt. San Antonio College Board of Trustees.

All four-wheeled vehicles parked in designated student lots MUST bear a valid parking permit for the semester enrolled. The Student Parking Permit is valid in designated student lots except in the spaces controlled by parking meters or reserved signage. Free 30-minute parking is available north of the Bookstore, west of the Administration Building, and south of the Performing Arts Center. Permit parking regulations are strictly ENFORCED during the Fall, and Spring semesters and summer and winter sessions from 7:00 a.m. to 10:00 p.m. Monday through Thursday, and Friday 7:00 a.m. to 4:00 p.m.

Eye Protection

Pursuant to the Education Code, the following regulation regarding eye protective devices shall be observed: Students, teachers, and visitors shall wear approved eye protective devices in all classes, shops, and laboratories when they are engaging in or observing the use of hazardous materials likely to cause injury to the eyes. Such eye protective devices shall meet the requirements of the American Standards Association Safety Code.

Academic Honesty

All members of the academic community have a responsibility to ensure that scholastic honesty is maintained. Faculty has the responsibility of planning and supervising all academic work in order to encourage honest and individual effort, and of taking appropriate action if instances of academic dishonesty are discovered.

Honesty is primarily the responsibility of each student. The College considers cheating to be a voluntary act for which there may be reason, but for which there is no acceptable excuse. It is important to understand that collaborative learning is considered cheating unless specifically allowed for by the professor.

Cheating and Plagiarism

Cheating

Professors have the responsibility of planning and supervising all academic work to encourage honest and individual effort, and of taking appropriate action if instances of academic dishonesty are discovered. However, honesty is primarily the responsibility of each student. The College considers cheating to be a voluntary act for which there may be reasons, but for which there is no acceptable excuse. It is important to understand that collaborative learning is considered cheating unless specifically allowed by the professor. The term "cheating" includes but is not limited to:

- Plagiarism;
- Receiving or knowingly supplying unauthorized information;
- Using unauthorized material or sources;
- Changing an answer after work has been graded and presenting it as improperly graded;
- Illegally accessing confidential information through a computer;
- Taking an examination for another student or having another student take an examination for you; and
- Forging or altering registration or grade documents.

The professor who determines that a student has cheated may give the student a failing grade for the assignment or for the course, or may drop the student from the course. Since the student has failed to abide by the standards of academic honesty, the professor has a right to give an "F" for the assignment or the course even though the student may have successfully and, presumably, honestly passed the remaining portion of the assignment or course. If the professor issues a failing grade for the course or drops the student, the actions shall be reported to the Dean of Student Services, and Director of Student Life. An professor may also recommend that appropriate action be taken under provisions of the Administrative Regulations and Procedures on Student Discipline.

Plagiarism

"Plagiarism is a direct violation of intellectual and academic honesty. Although it exists in many forms, all plagiarism refers to the same act: representing somebody else's words or ideas as one's own. The most extreme forms of plagiarism are the use of material authored by another person or obtained from a commercial source, or the use of passages copied word for word without acknowledgment. Paraphrasing an author's idea or quoting even limited portions of his or her text without proper citation is also an act of plagiarism. Even putting someone else's ideas into one's own words without acknowledgment may be plagiarism. In none of its forms can plagiarism be tolerated in an academic community. It may constitute grounds for a failing grade, probation, suspension, or expulsion."

"One distinctive mark of an educated person is the ability to use language correctly and effectively to express ideas. Faculty assign written work for the purpose of helping students achieve that mark. Each instructor will outline specific criteria, but all expect students to present work that represents the student's understanding of the subject in the student's own words. It is seldom expected that student papers will be based entirely or even primarily on original ideas or original research."

"Therefore, to incorporate the concepts of others may be appropriate with proper acknowledgment of sources, and to quote others directly by means of quotation marks and acknowledgments, is proper. However, if a paper consists entirely of quotations and citations, the paper should be rewritten to show the student's own understanding and expressive ability. The purpose of the written assignment (i.e., development of communication and analytic skills) should be kept in mind as each paper is prepared. It should not be evaded through plagiarism."*

* Adopted, with permission of California State University, Los Angeles, from their policy printed in the 1987-88 General Catalog.

Non-Discrimination Policy

Mt. San Antonio College provides opportunities for the pursuit of excellence for all students and staff through its educational programs and services. The purpose of all programs, services, activities, conferences and college-endorsed competitions is to enrich the quality of human life. The College will provide open access to a college education and all support services without regard to sex, race, color, religious creed, national origin, ancestry, age over 40, marital status, physical or mental disability (including HIV & AIDS), sexual orientation, or Vietnam Era Veteran Status. The lack of English language skills will not be a barrier to admission. Policies and grievance procedures for unlawful discrimination and complaint procedures for sexual harassment for students and employees may be obtained by contacting the following individuals:

Trinda Hoxie, Director

Human Resources/Affirmative Action Officer Human Resources Office Building 4, Room 230, Ext. 4225

Audrey Yamagata-Noji, Vice President Student Services Student Services Center, Ext. 4505

Carolyn Keys, *Dean of Student Services* Building 9C, Room 1A, Ext. 4525

Sexual Harassment Policy

It is the policy of the Board of Trustees of Mt. San Antonio College to provide an educational, employment, and business environment free of unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct or communications constituting sexual harassment, as defined and otherwise prohibited by state and federal statutes.

Sexual Harassment is not only unlawful, but it shall be a violation of this policy for any employee, student, agent of the Board, or one who is authorized to transact business or perform other acts or services on behalf of the College to engage in sexual harassment. Any person who knowingly violates this policy will be subject to appropriate and immediate disciplinary action.

Standards of Conduct Board Policy, Section 5500 Adopted 6/23/04 Copies of the Standard of Conduct Policy can be obtained in Building 9C.

The College President/CEO shall establish procedures for the imposition of discipline on students in accordance with the requirements for due process of the federal and State law and regulations.

The procedures shall clearly define the conduct that is subject to discipline, and shall identify potential disciplinary actions, including but not limited to the removal, suspension, or expulsion of a student.

The Board shall consider any recommendation from the College President/CEO for expulsion. The Board shall consider an expulsion recommendation in closed session unless the student requests that the matter be considered in a public meeting. Final action by the Board on the expulsion shall be taken at a public meeting.

The procedures shall be made widely available to students through the College catalog and other means.

The following conduct shall constitute good cause for discipline, including but not limited to the removal, suspension or expulsion of a student:

- 1. Causing, attempting to cause, or threatening to cause physical injury to another person.
- 2. Possession, sale or otherwise furnishing any firearm, knife, explosive or other dangerous object, including but not limited to any facsimile firearm, knife or explosive, unless, in the case of possession of any object of this type, the student has obtained written permission to possess the item from a College employee, which is concurred with by the College President/CEO.

- 3. Unlawful possession, use, sale, offer to sell, or furnishing, or being under the influence of, any controlled substance listed in Chapter 2 (commencing with Section 11053) of Division 10 of the California Health and Safety Code, an alcoholic beverage, or an intoxicant of any kind; or unlawful possession of, or offering, arranging or negotiating the sale of any drug paraphernalia, as defined in California Health and Safety Code Section 11014.5.
- 4. Committing or attempting to commit robbery or extortion.
- 5. Causing or attempting to cause damage to College property or to private property on campus.
- 6. Stealing or attempting to steal College property or private property on campus, or knowingly receiving stolen College property or private property on campus.
- 7. Willful or persistent smoking in any area where smoking has been prohibited by law or by regulation of the College.
- 8. Committing sexual harassment as defined by law or by College policies and procedures.
- 9. Engaging in harassing or discriminatory behavior based on national origin, religion, age, sex (gender), race, color, medical condition, ancestry, sexual orientation, marital status, physical or mental disability, or because a person is perceived to have one or more of the foregoing characteristics.
- 10. Willful misconduct that results in injury or death to a student or to College personnel or which results in cutting, defacing, or other injury to any real or personal property owned by the College or on campus.
- 11. Disruptive behavior, willful disobedience, habitual profanity or vulgarity, or the open and persistent defiance of the authority of, or persistent abuse of, College personnel.
- 12. Cheating, plagiarism (including plagiarism in a student publication), or engaging in other academic dishonesty.
- 13. Dishonesty, forgery, alteration or misuse of College documents, records or identification; or knowingly furnishing false information to the College.
- 14. Unauthorized entry upon or use of College facilities.
- 15. Lewd, indecent or obscene conduct on College-owned or controlled property, or at College-sponsored or supervised functions.
- 16. Engaging in expression which is obscene, libelous or slanderous; or which so incites students as to create a clear and present danger of the commission of unlawful acts on College premises, or the violation of lawful College administrative procedures, or the substantial disruption of the orderly operation of the College.

- 17. Persistent, serious misconduct where other means of correction have failed to bring about proper conduct.
- 18. Unauthorized preparation, giving, selling, transfer, distribution, or publication, for any commercial purpose, of any contemporaneous recording of an academic presentation in a classroom or equivalent site of instruction, including but not limited to handwritten or typewritten class notes, except as permitted by any College policy or Administrative Procedure.
- 19. Harassment of students and/or College employees that creates an intimidating, hostile, or offensive environment.
- 20. Violation of College rules and regulations including those concerning affiliate clubs and organizations, the use of College facilities, the posting and distribution of written materials, and College safety procedures.

Student Complaints/Grievance Process

Students are protected against capricious, arbitrary, unreasonable, unlawful, false, malicious or professionally inappropriate evaluations or behavior by a faculty member.

Student complaints may be classified as grievances and fall into two categories: Academic and Non-Academic. Academic grievances involve grades. To grieve a grade, a student must prove that the professor issued a grade by mistake, fraud, bad faith, or incompetence (Education Code 76224). Non-Academic grievances include: illegal discrimination, sexual harassment, financial aid, violation of College policies, any violation of Title IX or Section 504 related to students with disabilities.

Grievances must be filed within 60 business days of the alleged violation, or from the time that the grade leading to the complaint is posted. To begin the formal grievance process, students may pick up Grievance Procedures and forms from the Student Life Office, Building 9C. It is recommended that students meet with the Student Life Director regarding the grievance prior to starting the process since timelines are established for every step of the process and must be met precisely.

The process for filing and pursuing a grievance includes two levels: in **Level I** (informal level) the student picks up the grievance forms and official procedures from Student Life and attempts to resolve the problem by meeting first with the faculty member and then to the faculty member's department chair or immediate supervisor. If the complaint is not resolved at that level, the student will meet with the division dean in an effort to resolve the problem. In the event that the problem cannot be resolved within 10 business days, the student may proceed to **Level II** (formal grievance) in which the student after completing the forms takes all signed forms and documents to the Student Life Office within the established deadlines. A Grievance Review Committee chaired by the Dean of Student Services will review the grievance documents. This Committee may forward the grievance for a hearing that provides for a formal hearing process to seek clarification from the parties involved. An appeal is possible if the student or faculty/staff member chooses to appeal the decision of the Committee. However, the decision made by the president or designee is final.

Smoking on Campus

Student, employee, and visitor health is a primary concern of Mt. San Antonio College. Because of the clear evidence of the harmful nature of smoke inhalation and because of the general concern over air contamination, Mt. San Antonio College in accordance with California State law, bans smoking within all campus buildings and in any outdoor area within twenty feet of any exterior exit or entrance to such a building. This includes all College-leased and College occupied buildings. Further, smoking is banned in the swimming pool area, Hilmer Lodge Stadium, and in all college vehicles.

Policy for Providing Academic Adjustments for Students with Disabilities

Under Federal and State laws, the College is required to make modifications to academic requirements and practices as necessary in order to ensure that they do not discriminate against a qualified student with a disability. The College is also required to have a policy and procedure for responding to students with verified disabilities who request academic adjustments. Students with disabilities have the right to receive reasonable academic adjustments in order to create an educational environment where they have equal access to instruction without fundamentally altering any course, educational program or degree. Copies of the Policy and Procedures for Providing Academic Adjustments for Students With Disabilities are available in Disabled Student Programs & Services, ext. 4290.

NOTICES

Equal Opportunity Statement

The Board of Trustees of Mt. San Antonio College has a commitment to establishing and maintaining a policy of equal educational and employment opportunities and prohibiting discrimination based on sex, race, color, religious creed, national origin, ancestry, age over 40, marital status, physical or mental disability (including HIV & AIDS), sexual orientation, or Vietnam Era Veteran Status. This commitment applies to educational programs, activities, service, and employment practices.

Notice of Students' Rights

Students at Mt. San Antonio College are notified annually of their rights under the act within this section of the *Catalog*. More detailed information on student rights is available from the Dean, Enrollment

Management, including: 1) type of information and material contained within the student's educational record; 2) the official responsible for the maintenance of each type of record; 3) the procedure for student review and inspection of the educational record; 4) the procedure for challenging the contents of the educational record; 5) the charges to the student for reproducing copies of the record if requested; 6) the categories of information which the College has designated as Directory Information and to whom this information will be released unless the student objects; and 7) the rights of a student to file a complaint with the United States Department of Education concerning alleged failure of the College to comply with the provisions of the Act.

Federal Review Board

Students may file a complaint with the United States Department of Education, Room 5660, Independence Avenue, S.S., Washington, D.C. 20201, regarding alleged institutional violations of the Act.

Open Enrollment

All classes are open to all students who meet the course prerequisites and enrollment requirements, unless specifically exempted by statute. The College provides open access to all program offerings, opportunities, and support services without regard to sex, race, color, religious creed, national origin, ancestry, age over 40, marital status, physical or mental disability (including HIV and AIDS), sexual orientation, or Vietnam Era Veteran Status.

Public Safety

In compliance with the Clery Act, the College publishes an annual security report which contains information regarding campus crime statistics. This information may also be found on the website at *www.mtsac.edu* by clicking on Public Safety. Copies of the annual report can be obtained from the Public Safety Department, Building 4, Room 105. A Public Safety crime log is published bi-monthly in the student newspaper and brochures on Emergency Procedures are posted throughout the campus.

During the 2003-2005 calendar years, criminal offenses occurring on campus were reported to campus security authorities and local police agencies. Please see the Public Safety Department Statistical Crime Report listed in the box on the next page.

Emergency Procedures

Students and staff should report serious crimes and emergencies, i.e., fire/medical, occurring on campus to the Public Safety Department or call 911. When using an on-campus extension, call 9-911. Incidents may be reported to Public Safety by calling **(909) 594-5611, ext. 4555**, 24 hours a day. During normal business hours, Public Safety may be contacted at Building 4, Room 105, or by calling ext. 4230. The Public Safety Department is located at the southeast portion of the campus off Bonita Drive in Building 48. Public telephone locations on campus have at least one phone that is equipped with a red emergency button that is a direct line to the Mt. SAC Public Safety Office during and after business hours. In the event of an emergency, students and staff are requested to make a prompt and accurate report to the Public Safety Department.

Enforcement

The Mt. San Antonio College Public Safety Department has the authority to enforce the Student Discipline Code of Conduct under the Education and Penal Codes of the State of California; and is the liaison with local police and sheriffs departments in cases of criminal actions.

Mt. San Antonio College District incident reports are not official police reports. If an official police report is required, the Los Angeles County Sheriffs Department in Walnut is the appropriate agency to contact.

Crime Prevention

The Public Safety Department's primary responsibility is the safety and security of all members of the College community. Every effort is made to inform students and staff of criminal activity or any other concern that may be an immediate threat to the safety and security of those on campus. Information and workshops on crime prevention are made available to College students and staff. It is the responsibility of every member of the campus community to act in ways that promote the safety of self, others, and the protection of District property.

Campus Emergency Phone System

Mt. San Antonio College has installed a campus wide emergency phone system. This system is divided into two primary segments. The inner campus system consists of emergency phones that are placed on the outside of selected campus buildings and are identified by the familiar blue light affixed to the top of the phone housing. The second segment of emergency phones consists of stand-alone emergency phone towers, located in open campus spaces, primarily in campus parking lots. These phone towers are identified by a blue light affixed to the top of the tower.

Use of any of these emergency phones will connect the user to Campus Security during normal business hours, located in Building 4. During hours when the campus is closed, the Emergency phones will connect the user directly to a cell phone carried by Campus Security Officers who are on duty 24 hours a day, 7 days a week.

Student Rights and Privacy Act

Following is a summary of the Mt. San Antonio College policy related to the Family Educational Rights and Privacy Act of 1974, O.L. 93-380, and Chapter 1297, Statutes of 1976, State of California:

Access to Educational Records

All former and present students have the right to review and inspect their educational records in the Office of Admissions and Records provided they make a written request fifteen (15) days in advance. Such a review will be under the direct supervision of a classified or certificated employee in the Admissions and Records Office. Expressly exempted from the right of review and inspection are the following materials:

- 1. Financial records of the parents of the student(s).
- 2. Confidential letters and statements of recommendation maintained by the College on or before January 1, 1975, provided that such letters or statements are not used for purposes other than those for which they were specifically intended.
- 3. Records of instructional, supervisory, counseling, and administrative personnel which are in the sole possession of such personnel and are not accessible or revealed to any other person except a substitute.
- 4. Records of employees of Mt. San Antonio College, made and maintained in the normal course of business which relate exclusively to such person in that person's capacity as an employee, are not available for use for any other purpose.
- 5. Records of students made and maintained by the Student Health Services, the College nurse, the College physician, and the College therapist, which are used in the treatment of students and are not available to anyone other than persons providing such treatment. However, such a record may be personally reviewed by a physician or other appropriate professional of the student's choice.

Release of Educational Records Information

- 1. Any release of a student's educational records, with the exception listed below, must be made with the student's written consent.
- 2. The College may release copies of or otherwise divulge material in the student's educational records only to the official agencies, groups, officials, or individuals specifically mentioned below:
 - a. College staff members; provided that such employees have a legitimate educational interest to inspect such a record.
 - b. Representatives of the Comptroller General of the United States, the Secretary of Education, and administrative head of an educational agency, state education officials, and the United States Office of Civil Rights, where such information is necessary to audit a program.
 - c. Accrediting organizations in order to carry out their accrediting functions.
 - d. Organizations conducting studies on behalf of the institution.
 - e. Officials of other schools or school systems in which the student seeks or intends to enroll subject to the rights of students.

PUBLIC SAFETY DEPARTM	ENT STATISTIC	CAL CRIME	REPORT
Violation	2004	2005	2006
Murder	0	0	0
Rape	1	0	0
Robbery	1	0	1
Assault	15	5	17
Weapons Violation	1	3	3
Hate Crimes	0	0	0
Arson	0	0	0
Burglary	11	11	11
Burglary from Vehicle	19	16	28
Theft	54	44	59
Theft from Vehicle	8	14	9
Stolen Vehicle (GTA)	21	18	26
Vandalism	18	23	16
Liquor Law Violations	0	0	1
Illegal Drugs	1	1	3
Yearly Totals	150	135	174

f. Agencies or organizations in connection with a student's application for financial aid.

- g. Organizations conducting studies for, or on behalf of, educational agencies or institutions for the purpose of developing, validating, and administering predictive tests, administering student aid programs, and improving instruction, if such studies are conducted in such a manner as will not permit the personal identification of students or their parents by persons other than representatives of such organizations and such information will be destroyed when no longer needed for the purpose for which it is compiled.
- h. Appropriate persons in connection with an emergency if the knowledge of such information is necessary to protect the health and safety of the student or other persons.
- i. Courts or other agencies in compliance with a subpoena or judicial order. A reasonable effort will be made to notify the student in advance of the compliance by the College.
- 3. Directory Information:
 - a. "Directory Information" means a student's name, community of residence, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous public or private school attended by the student.

College Policies and Notices

- b. Any student desiring to withhold "Directory Information" may file a written request with the Dean, Enrollment Management, within fifteen (15) days of the opening day of each semester or session that the student does not want such information released.
- c. The College reserves the right to limit or deny the release of specific categories of directory information based upon a determination of the best interests of the student(s).

Transfer of Information to Third Parties

Educational records or personal information transferred to other institutions or agencies will not be transferred to a third party without the written consent of the student.

Catalog Rights

This term is used to define the specific set of general education and other graduation requirements, as established in the catalog for a specific year, which the student must satisfy to qualify for a degree, certificate, etc.

Students may choose to qualify for graduation (G.E. and major) under the requirements in effect at either:

- 1. the time they entered the college, or
- 2. they may use any catalog thereafter, as long as the student maintains continuous enrollment.
- continuous enrollment is defined as attendance during every regular semester (fall and spring) after initial enrollment at Mt. San Antonio College.

Continuous Residence

A student will retain rights to follow *Catalog* requirements for the year they entered Mt. San Antonio College if, during every regular semester after initial enrollment at Mt. SAC, he/she:

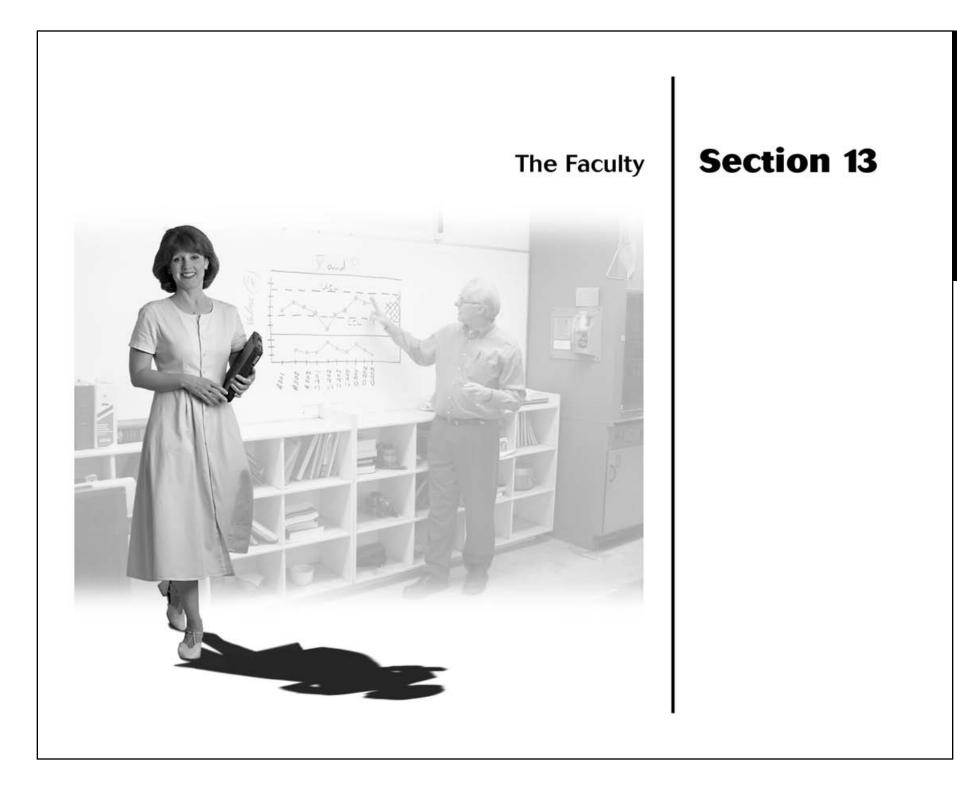
- is enrolled in any credit class at Mt. SAC beyond the first four weeks; or
- 2. completes any units in a credit class at another accredited post-secondary institution; or
- 3. receives a waiver in advance or approval Board of Appeals because of extenuating circumstances.

Student Right-to-Know Rates Completion Rate: 26.1% Transfer Rate: 25.9% From 1996 COHORT Data

In compliance with the Student-Right-to-Know and Campus Security Act of 1990 (Public Law 101-542), it is the policy of the Mt. San Antonio Community College District and Mt. San Antonio College to make available its completion and transfer rates to all current and prospective students. Beginning in Fall 1996, a cohort of all certificate-, degree-, and transfer-seeking first-time, full-time students were tracked over a threeyear period. These rates do not represent the success rates of the entire student population at Mt. San Antonio College, nor do they account for student outcomes occurring after this three-year tracking period.

Based upon the cohort defined above, 26.1 percent attained a certificate or degree or became 'transfer- prepared' during a three-year period, from Fall 1996 to Spring 1999. Students who are 'transfer- prepared' have completed 56 transferable units with a GPA of 2.0 or better.

Based on the cohort defined above, 25.9 percent transferred to another postsecondary institution, (UC, CSU, or another California Community College) prior to attaining a degree, certificate, or becoming 'transfer-prepared' during a five semester period, from Spring 1997 to Spring 1999.



Α

Adcox, Nancy M. (1974)

Mathematics, Computer Science A.A., Mt. San Antonio College B.S., M.S., California State Polytechnic University, Pomona

Alexander, Carolyn (1991)

Art, Animation & Broadcasting B.A., Scripps College M.F.A., Tyler School of Art, Temple University

Allen, Jerry B. (1971)

History, Art History, Geography, Political Science B.A., M.A., Brigham Young University Ph.D., Claremont Graduate School J.D., Loyola University School of Law

Allende, Kristina (2001)

English, Literature & Journalism A.A., Mt. San Antonio College B.A., M.A., California State University, Fullerton

Allen-Kodama, Linda (1991)

Art, Animation & Broadcasting A.A., Los Angeles City College B.A., California State University, Long Beach M.F.A., California State University, Fullerton

Al-Malood, Fawaz (2003)

Consumer Science & Design Technologies B.S., University of South Carolina M.B.A., Columbus University, Mississippi Ph.D., Pacific Western University, Hawaii

Alvarez, Hansel (2007)

English, Literature & Journalism B.A., California State University, San Bernardino M.A., California State Polytechnic University, Pomona

Alvarez-Galvan, Maya (2000)

American Language B.A., M.A., California State University, Los Angeles Ph.D., University of Southern California

Ammirato, Joseph S. (1997) Photographics B.F.A., University of Utah

Anderson, Cynthia B. (1986) Biological Sciences

B.S., Arizona State University M.S., University of Illinois

Anderson, Daniel P. (2000) *Physics, Engineering* B.S., University of California, Los Angeles M.S., California State Polytechnic University, Pomona

Anderson, Richard (1992)

Air Conditioning & Welding A.S., Mt. San Antonio College

Anderson-Perry, Carolyn (2004)

Nursing A.S.N., Los Angeles Southwest College B.S.N., California State University, Dominguez Hills M.S.N., University of Phoenix

Andrade, Renée (1984)

Foreign Languages A.A., Los Angeles City College B.A., California State University, Los Angeles M.A., Ph.D., University of California, Irvine

Andrews, Barry (2001)

Computer Information Systems B.S., Indiana University M.S., California State University, Fullerton

Ano, Gene (2006)

Psychology, Education M.A., Ph.D., Bowling Green State University

Arballo, Madelyn A. (1998)

Director, Basic Skills B.A., Pitzer College M.A., California State University, Los Angeles

Archibald, Jeffrey D. (2000) Communication

B.A., Cornell University M.S., Illinois State University

Arterburn, Pamela (1986) English, Literature & Journalism B.A., M.A., California State Polytechnic University, Pomona

Arvidson-Perkins, Genene (1988)

Nursing A.S., Mt. San Antonio College B.S., California State University, Fullerton M.S., California State University, Los Angeles PHN Certificate

Austin, Jerry D. (2003)

Director, Fire Technology A.A., Santa Ana College B.V.E., California State University, Long Beach M.A., Chapman University

Avila, Rocio (2006) English, Literature & Journalism B.A., California State Polytechnic University, Pomona M.A., California State University, Fullerton

A.A., California State University, FL

В

Bacigalupi, Stacy (2006)

Psychology, Education B.A., University of California, Santa Barbara M.A., California State University, Fullerton

Bartman, Sydney (1986)

English, Literature & Journalism A.A., Mt. San Antonio College B.A., University of La Verne M.A., University of California, Riverside

Bauch, Helen L. (1988)

Foreign Languages B.A., St. Louis University M.A., Bowling Green State University

Beam, Teresa (1991)

Chemistry B.S., Ohio University M.S., California State University, Fullerton

Becker, Liza (1998)

Assistant Director, ESL & Intercultural Programs B.A., California State University, Los Angeles M.S., California State University, Fullerton

Beeman, Laura (1996)

Physical Education B.A., California State University, San Bernardino M.A., Azusa Pacific University

Blackmore, Deborah L. (1974)

Dean, Physical Education B.S., M.S., California State Polytechnic University, Pomona

Blake-Judd, Jemma (1990)

English, Literature & Journalism B.A., M.A., California State Polytechnic University, Pomona

Blyzka, John V. (2001)

Computer Information Systems B.S., University of California, Irvine M.S., California State University, Fullerton

Birca, Alina (2005)

Mathematics, Computer Science B.S., University Alexsandru Ioan Cuza of Iasi M.A., California State University, San Bernardino

Boehner-Staylor, Maya (2001)

English, Literature & Journalism B.A., California State University, Los Angeles M.A., Northwest Missouri State University

Borella, Frances (1999)

Biological Sciences A.A., Mt. San Antonio College B.S., California State Polytechnic University, Pomona M.A., Ph.D., University of California, Riverside

Boroch, Deborah J. (1990)

Interim Dean, Instructional Services A.A., Mt. San Antonio College B.S., Brigham Young University M.A., California State University, Fullerton Ed.D., University of LaVerne

Boryta, Mark (2001)

Earth Sciences, Astronomy B.A., Amherst College M.S., Ph.D., New Mexico Institute of Mining and Technology

Bowen, Melinda (2006)

Physical Education/Head Coach, Women's Soccer B.A., California State Polytechnic, Pomona M.A., Azusa Pacific University

THE FACULTY

Bowen, Robert (2006)

Music B.A., M.A., University of California, Santa Barbara M.F.A., Ph.D., Princeton University

Bower, Patricia M. (1990) Learning Assistance B.S., M.A., University of California, Los Angeles

Brackenhoff, Mary (1991) English, Literature & Journalism B.A., Southern Illinois University M.A., Drake University Ph.D., University of Nebraska

Bradley, Julie (2005) Disabled Student Programs & Services B.A., University of California, Riverside M.S., California State University, Los Angeles

Bradshaw, George R. (2007) Dean, Enrollment Management B.A., M.A., California State University, San Bernardino Ph.D., University of Utah

Brantingham, John (2002) English, Literature & Journalism B.A., California State Polytechnic University, Pomona M.F.A., California State University, Long Beach

Braver, Lane (1987) Medical Services A.A., Santa Monica College P.A., U.S.C. School of Medicine M.S.H.P.E, Western University, Pomona

Bray-Ali, Julie (2001) Earth Sciences, Astronomy B.A., California State Polytechnic University, Pomona M.S., University of Southern California

Bridges, Karen (2007)

Earth Sciences, Astronomy B.A., Smith College, Northampton M.S., University of Massachusetts, Amherst

Bro, Glenda (1991)

American Language B.A., Dana College M.S., University of Nebraska TESOL Certificate, California State University, Fullerton

Brouillette, Ronald (1989) English, Literature & Journalism B.A., M.A., California State University, Fullerton

Brown, Ronald (2006) Art, Animation & Broadcasting B.F.A., Art Center College of Design

Buff, Haskell (2007) Physical Education B.S., Southern Utah University M.Ed., University of Nevada, Las Vegas

Burgoon, Steve (2002) Art, Animation & Broadcasting B.A., University of Phoenix

Burley, Virginia (1986) Interim Vice President, Instruction B.A., California State University, Northridge M.A., Ph.D., Claremont Graduate University

Burnes, Fatemeh (1992) Art, Animation & Broadcasting B.A., Tehran University, Iran B.A., M.F.A., California State University, Fullerton

Burnett, Cynthia D. (1997) Counseling B.S., Northern Illinois University M.A., International Christian Graduate University M.S., California State University, Long Beach

Burns, Donna (2002) Director, ESL & Intercultural Programs B.S., M.A., Azusa Pacific University

Burton, Robert E. (1990) Aircraft Maintenance & Manufacturina

A.S., Mt. San Antonio College F.A.A. Certified, Airframe and Powerplant F.A.A. Certified, Inspector Authorization

Butler, Michael C. (1988)

Mathematics, Computer Science B.A., M.S., California State University, Los Angeles

C

Calkins, Katherine (1974) Music

A.A., Fullerton College B.M., M.A., California State University, Fullerton

Calzada, Silver (1999)

Counseling B.A., Pitzer College M.A.T., Harvard University

Cannon, Holly (1988) English, Literature & Journalism B.A., M.A., California State University, Northridge

Cannon, Kathleen (2005) History, Art History, Geography, Political Science B.A., M.A., M.F.A., Ph.D., University of California, Los Angeles

Caputo, Mario V. (1993) Earth Sciences, Astronomy B.S., San Diego State University M.S., Northern Arizona University Ph.D., University of Cincinnati

Castellano, Timothy (2006) Earth Sciences, Astronomy M.S., San Jose State University Ph.D., University of California, Santa Cruz

Castillejos, Manuel (1989) Foreign Languages B.A., California State University, San Diego M.A., California State University, Fullerton

Cavion, Deborah (1994)

Physical Education B.S., California State Polytechnic University, Pomona M.A., Azusa Pacific University

Cevallos-Castaneda, Susana (2005) *Learning Assistance* B.A., M.S., California State University, Fullerton

Chabot, Mary A. (1985)

Mathematics, Computer Science B.A., Fordham University M.S., University of Notre Dame

Chamberlain, Alison (2006) Biological Sciences B.S., California State University, Bakersfield

M.S., California State Polytechic, San Luis Obispo

Chang, Chih-Ping (Andrew) (1997)

Foreign Languages B.Ed., National Changhwa University of Education M.A., National Taiwan Normal University Ph.D., University of Southern California

Chapman, C. Neil (1997)

Photographics B.A., California State University, Long Beach M.A., California State University, Fullerton Ed.D., University of La Verne

Chavez, Raul S. (2000)

History, Art History, Geography, Political Science B.S., California State Polytechnic University, Pomona M.A., California State University, Los Angeles Ph.D., University of California, Riverside

Chen, Jenny S. (1998)

Chemistry B.S., University of California, Irvine M.S., Ph.D., University of California, Los Angeles

Chen, Gou-Ling Susie (2003)

Nursing A.D.N., National Taipei College of Nursing B.S.N., Kaohsiung Medical College M.A., Oklahoma City University M.N., University of California, Los Angeles Lifetime Instructor Credential, National Taiwan Normal University

Chen, Meghan (2000)

Director, Tutorial Services B.S., University of California, Los Angeles M.P.A., California Lutheran University M.A., California State University, Los Angeles

The Faculty

Chevalier, Jason (2000) Music B.A., M.A., California State University, Fullerton

Christopher, Micol (2005)

Earth Sciences, Astronomy B.A., Harvard University M.S., California Institute of Technology

Churchill, Peter (2005)

English, Literature & Journalism B.A., M.A., California State University, Fullerton

Cole, Lois M. (1985)

English, Literature & Journalism A.A., Leeward Community College B.A., M.A., University of California, Irvine

Condra, Denise (2006)

Nursing B.A., Whittier College B.S.N., M.S.N., Azusa Pacific University

Cooper Mark J. (1997)

Biological Sciences B.S., M.S., California State Polytechnic University, Pomona

Coreas, Kelly (2000)

Respiratory Therapy A.S., East Los Angeles College B.S., Loma Linda University M.S., Western University Pomona

Craft, Thomas (2007)

Physical Education B.A., San Diego State University M.A., Azusa Pacific University

Crane, Barbara N. (1972)

Assistant Vice President, Community Education B.S., California Polytechnic State University, San Luis Obispo M.S., California Polytechnic State University, San Luis Obispo

Crespo, Beverly Baker (1980)

Office Technology A.A., Long Beach City College B.S., California State University, Long Beach M.S., California State Polytechnic University, Pomona

Curran, Karen 0. (1998)

Child Development B.S., California State University, Fullerton M.S., Pacific Oaks College

D

Daland, William (2005) Counseling B.A., California State University, Fullerton M.S., California State University, Long Beach

Daum, Sarah (1998)

Interim Dean, Technology & Health A.B., Stanford University M.S., University of Michigan Ed.D., Nova Southeastern University

Davis, Maria (2005)

Child Development B.A., American InterContinental University

Davis, R. Gary (1972) Theater B.A., M.A., Occidental College

Degtyareva, Anna (1999) Computer Information Systems B.S., M.S., Leningrad University for Economics Engineers M.S., California State University, San Bernardino

Deines, Craig B. (1997)

Art, Animation & Broadcasting B.A., M.F.A., Central Washington University

DePaola, Gina (1991) English, Literature & Journalism

B.S., Metropolitan State College, Denver M.S., California State University, Long Beach

Diederichs, Melanie (1991)

Child Development A.A., Riverside City College B.S., M.Ed., California State University, Fullerton

Diem, Andrea (1991)

Sociology, Philosophy B.A., University of California, San Diego M.A., Ph.D., University of California, Santa Barbara

Di Fiori, Sara (2007)

Earth Sciences, Astronomy B.S., M.S., University of California, Los Angeles

D'Incognito, Patrick (1989) Aircraft Maintenance & Manufacturing A.S., Mt. San Antonio College F.A.A. Certificate, Airframe and Powerplant F.A.A. Certificated Designated Mechanic Examiner

Di Mauro, Eileen (1991)

Chemistry B.A., University of California, Santa Barbara M.S., University of California, Irvine

Distante, Debbie (2000) Librarian B.A., Morningside College

M.A., University of Iowa

Domico, Brenda L. (1997)

Accounting & Management B.S., M.B.A., California State Polytechnic University, Pomona Certified Managerial Accountant

Dorough, George D. (1991)

Sign Language A.A., Rochester Institute of Technology B.A., M.Ed., University of Massachusetts

Dowdle, Michael (2005)

Psychology, Education A.A., Butte Community College B.A., M.A., California State Polytechnic University, Chico

Dua, Amrik Singh (1990)

Business Administration B.A., M.A., Panjab University M.A., Dalhousie University Ph.D., Southeastern University

Dyer, Dorothy J. (1985) RHORC

B.S.N., California State University, Los Angeles Standard Designated Teaching Credential: Subject Field Nursing, Special Sciences and Pan African Studies M.S., California State University, Los Angeles

M.S., Nursing – Secondary in Nursing Education California State University, Dominquez Hills

Ε

Earhart, Kimberly (2005)

History, Art History, Geography, Political Science A.A., Riverside Community College B.A., M.A., Ph.D., University of California, Riverside

Eastman, Ralph M. (1980)

Theater B.A., Antioch College, Ohio M.A., Trinity College, Connecticut M.F.A., University of California, Los Angeles

Eatman, Elisabeth (2006)

Consumer Science & Design Technologies B.F.A., California State University, Long Beach

Edson, Thomas (2006)

English, Literature & Journalism B.A., University of California, Irvine M.A., Chapman University

Edwards, William (2005)

Mathematics, Computer Sciences B.S., M.S., California State Polytechnic University, Pomona

Efron, Alan (2007)

Chemistry B.S., M.S., California State University, Fullerton

Eisley, Benjamin N. (1990)

Air Conditioning & Welding A.A., Cerritos College B.S., M.S., Eastern Michigan University

Ellwood, Jeffrey (2006)

Music B.M., Berklee College of Music M.M., California State University, Fullerton

Emanuel, Elaine S. (1998)

Office Technology A.S., Mt. San Antonio College B.S., University of La Verne M.A., University of Phoenix

Engisch, Paulette (2003)

Radiologic Technology A.S., Mt. San Antonio College B.S., University of St. Francis California C.R.T., Certified Radiologic Technologist California Certified Mammographer R.T., American Registry of Radiologic Technology R.T. (M), American Registry of Mammography

Engle, Tim (2006)

Disabled Student Programs & Services B.S., Liberty University, Lynchburg, VA M.A., Psy.D., Biola University, La Mirada Psy.D., Biola University, La Mirada

Enke, Gary D. (1990) English, Literature & Journalism B.A., St. Joseph College M.A., Claremont Graduate School

Esslinger, Sandra (2002)

History, Art History, Geography, Political Science M.A., University of Southern California Ph.D., University of California, Los Angeles

Estes, George C. (1973) Agricultural Sciences B.S., California State University, Chico

Estrada, Maria (2004) English, Literature & Journalism B.A., M.A., California State Polytechnic University, Pomona

Ezzell, Sun (2006) Learning Assistance B.A., M.A., Humboldt State University

F

Falzone, Michael (2001) Art, Animation & Broadcasting B.F.A., Brooks Institute

M.F.A., Claremont Graduate University Faraone, Teresa M. (1999) Consumer Science & Design Technologies

Consumer Science & Design Technologies B.A., M.A., California State University, Los Angeles

Farris, Bob (1991)

Accounting & Management B.A., San Diego State University M.S., United States International University

Farve, Debra (1988) English, Literature & Journalism B.A., Xavier University M.A., University of Notre Dame Ed.D., University of Southern California

Ferris, Velora E. (1975) Nursing B.S., Boston College School of Nursing M.N., University of California, Los Angeles

FioRito, Arleen M. (2000) Nursing A.S., A.A., Mt. San Antonio College P.H.N., B.S.N., M.S.N., California State University, Dominguez Hills

Fleischer, Anne (2006) Communication B.A., Texas Tech University M.A., California State University, Long Beach

Ford, Kelly (2001) Physical Education A.S., Central Arizona College B.S., University of Oklahoma M.Ed., Azusa Pacific University

Foster, Dyrell W. (2004)

Director, Student Life B.S. University of California, Davis M.S., California State University, Fullerton

Frahs, Paul (2004) English, Literature & Journalism B.A., State University College, Potsdam, New York M.A., University of California, Irvine

Franko, Joseph (2002) Mathematics, Computer Science B.S., Iowa State University M.S., California Polytechnic University, Pomona

Fulbright Dennis, Wanda (1990) Counseling B.A., Fresno Pacific College

B.A., Fresno Pacific College M.S., California State University, Los Angeles Ed.D., University of La Verne

Fuller, Luisa (2001)

Learning Assistance B.S., University of San Francisco M.A., Azusa Pacific University

G

Gagnon, Cathy (1987) Medical Services A.A., A.S., Mt. San Antonio College B.S.N., M.S.N., California State University, Dominguez Hills CCRN, CEN, MICN Credentials

Galbraith, Jennifer (1988)

Mathematics, Computer Science A.A., Chaffey College B.S., M.S., California State Polytechnic University, Pomona

Gallarde, Marlene (2007) Sociology, Philosophy

B.A., M.A., California State University, Fullerton

Garcia, Casimiro (Casey) (2006) Communication B.S., M.A., University of Texas at Austin

Garcia, Daniel (2007) Welding B.S., Azusa Pacific University, Azusa

Gardner, John C. (1975) Mental Health Technology B.A., California State University, Fullerton M.A., Chapman College Ph.D., University of Southern California

Garloff, Christina (2007) Agricultural Sciences B.S., Lake Erie College, Painesville, Ohio D.V.M., University of California, Davis

Garrett, Jean (1989)

English, Literature & Journalism A.A., Mt. San Antonio College B.A., M.A., California State Polytechnic University, Pomona

Garrett, LeAnn (2001)

Librarian B.S., University of Wisconsin — Stout M.L.I.S., Ph.D., University of Hawaii, at Manoa

Garwick, Jennifer (2006)

Agricultural Sciences B.S., California State Polytechnic University, Pomona

Gau, Jim (2000)

Computer Information Systems B.E., Feng Chia University M.B.A., California Lutheran University

Goff, Michael (1998)

Physical Education A.A., Bakersfield College B.A., M.A., Whittier College

Gold Wright, Jill Y. (1998) English, Literature & Journalism B.A., University of California, Irvine M.A., Ph.D., Claremont Graduate University

Gonzales, Barbara (2002)

Learning Assistance A.A., Mt. San Antonio College B.A., M.Ed., University of LaVerne

Gonzalez, Gail (1999) Mental Health Technology B.S.N., Montana State University

Graham, Chris Giles (1991)

Mathematics, Computer Science B.A., Pomona College M.S., Chadron State College M.S., California State University, Los Angeles Ph.D., Claremont Graduate University

Greco, Victoria (1999)

Disabled Student Programs & Services B.A., California State University, Fullerton M.A., California State University, San Bernardino

The Faculty

Greenwood, Ralph (1975)

History, Art History, Geography, Political Science B.A., M.A., California State University, Los Angeles Ph.D., Northern Arizona University

Griffith, Hugh M. (1998)

Mathematics, Computer Science B.A., University of California, Berkeley M.S., California State University, Los Angeles

Grimes-Hillman, Michelle (2000)

Psychology, Education B.A., M.A., California State University, Fullerton

Guth, Scott A. (1990)

Mathematics, Computer Science A.A., San Bernardino Valley College B.S., M.S., California Polytechnic State University, San Luis Obispo

Н

Hagner, Dirk (2007)

Art, Animation & Broadcasting M.A., University of Essen, Duisburg, Germany

Hall, Sushma S. (1990) Sociology, Philosophy B.A., M.A., University of Hawaii

Hanson, Grace (1996)

Director, Disabled Student Programs & Services B.A., M.A., California State University, Long Beach Transition Services for Individual with Disabilities Certificate

Harper, Michael W. (2000)

English, Literature & Journalism B.A., M.A., San Diego State University

Hartman, Laurie (2007)

Photographics B.F.A., Rochester Institute of Technology

Hatch, Rebecca (2001)

Sociology, Philosophy B.A., California Lutheran University M.S., Ph.D., University of Southern California

Heneise, John W. (1985)

Dean, Business and Economic Development A.S., Long Beach City College B.A., California State University, Long Beach M.Ed., California State Polytechnic University, Pomona

Henkins, Kathryn (1987)

English, Literature & Journalism B.A., University of Redlands M.A., California State University, Los Angeles M.A., California State University, Fullerton Ph.D., Claremont Graduate School

Henry, Anthony (2007)

Child Development B.A., Humbolt State University M.A., California State University, Los Angeles M.A., Azusa Pacific University

Hernandez, Alina (1988)

Counseling A.A., Santa Ana Community College B.A., M.A., California State University, Fullerton

Hernandez, Cristina M. (1997)

History, Art History, Geography, Political Science B.A., M.A., University of California, Santa Barbara

Herrera, Irene (2000)

Director, EOPS B.S., California State University, Fullerton M.S., California State University, Los Angeles

Hight, Lynette C. (1971)

English, Literature & Journalism B.A., M.A., California State University, Los Angeles

Hill-Enriquez, Evelyn (1991)

American Language A.A., Mt. San Antonio College B.A., M.A., California State University, Fullerton TESOL Certificate

Hischar, Paul (1998)

Accounting & Management B.S., California State Polytechnic University, Pomona M.B.A., West Coast University

Ho, Robert I. (1984)

Architecture & Engineering Design Technology B.S., Cheng Kung University M.Arch., University of Minnesota NCARB, National Council of Architectural Registration Boards California Licensed Architect

Hoffman, Jean (1997)

Agricultural Sciences A.S., Mt. San Antonio College B.V.E., California State University, San Bernardino

Hoggan, Lynda Smith (1996)

Biological Sciences B.S., Slippery Rock University M.P.H., University of California, Los Angeles

Hoover, Karelyn (1995)

Chemistry B.S., M.S., New Mexico Institute of Mining & Technology

Horton, Tamra (2000)

English, Literature & Journalism B.A., University of California, Davis M.A., University of Wyoming Ph.D., Louisiana State University

Hosea, Phebe (2007)

Mathematics B.S., M.S., University of California, Irvine

Howell, Luisa (2002)

Foreign Languages B.A., M.A., California State University, Sacramento

Huang, Kenneth (2006)

Chemistry M.S., California State University, Long Beach Ph.D., University of California, Santa Barbara

Huang, Shui-lien (1989)

Computer Information Systems M.A., West Texas State University

Hughes-Lederer, Julie (1980) Nursing A.D.N., Rio Hondo College

B.S.N., M.S.N., California State University, Los Angeles

Hughey, Douglas (1999)

Child Development A.A., San Diego City College B.A., M.A., Pacific Oaks College

Hymer, Jonathan (2005)

Electronics & Computer Technology B.A., University of California, Davis

Impara, Carol (2005)

Consumer Science & Design Technologies B.A., Davidson College M.S., University of Maryland

Inmon, Carolyn (1992)

Communication B.A., University of California, Los Angeles M.A., California State University, Northridge

J

Jackson, Christopher (2005)

Physical Education B.S., California State University, Fullerton M.S., Azusa Pacific University

Jagodka, Ralph F. (1997)

Accounting & Management B.S., Western Illinois University M.B.A., Pepperdine University Ed.D., University of La Verne

Jastrab, Robert (2001)

Physical Education B.A., University of Miami M.S., University of Nevada

Jeffers, Bonnie H. (1997)

Office Technology A.A., Cerritos College B.A., M.A., California State University, Fullerton

Jefferson, Paul (2001)

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Leader, Jennifer (2006)

Lawlor, Elizabeth (2000)

Biological Sciences

Lawrence, Helen (1990)

Counselina

A.B., Brown University

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American Language M.A., Azusa Pacific University Ph.D., Claremont Graduate University

Ledeboer, Lisa (2006)

Consumer Science & Design Technologies B.S., Iowa State University M.S., California State University, Northridge

Lee, Eddie (2006)

Counseling B.A., California State Polytechnic, Pomona M.S., California State University, Long Beach

Leung, Jenny (2006)

Chemistry B.S., M.S., University of California, Irvine

Lizarraga, Max (1993)

Architecture & Engineering Design Technology B.A., M.A., California State University, Long Beach

Lobb, Elizabeth A. (1998)

History, Art History, Geography, Political Science B.A., University of California Berkeley M.A., University of Washington, Seattle

Loera-Ramirez Dionne (2001)

English, Literature & Journalism B.A., M.A., California State University, Fullerton

Long, Gary (1984)

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Jenkins, James D. (1992)

Assoc. Dean, Humanities & Social Sciences B.A., M.A., California State Polytechnic University, Pomona

Jennum III, Joseph E. (1997) Director, P.E. & Wellness Programs B.S., California State Polytechnic University, Pomona M.S., California State University, Fullerton

Johnson, Mary T. (1997) Computer Information Systems B.A., California State University, Fullerton M.S., Azusa Pacific University

Johnson, Michelle (1998)

Mathematics, Computer Science B.S., M.S., University of California, Irvine

Jones, William D. (1992)

History, Art History, Geography, Political Science A.A., Mt. San Antonio College B.A., University of California, Los Angeles M.A., Ph.D., Claremont Graduate School

Judd, Matthew T. (1990) English, Literature & Journalism B.A., University of California, Berkeley M.A., Claremont Graduate School

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Kakiba-Russell, Karyn N. (1990) Biological Sciences B.S., M.S., California State University, Los Angeles

Kaljumagi, Eric (1999) Learning Assistance B.S., University of California, Davis M.A.T., University of California, Davis

Kamaka, Ron (2006)

Physical Education B.A., Sonoma State University M.S., Azusa Pacific University

Karn, Tamara (2001)

English, Literature & Journalism B.A., University of California, Los Angeles M.A., Chapman University

Kemp, Kurt A. (2000)

Foreign Languages A.A., Mt. San Antonio College B.A., California State University, Fullerton M.A., University of California, Los Angeles Klawitter, Kenneth (1991)

B.S., Bradley University, Illinois

M.A., California State University, Los Angeles

Ph.D., University of California, Santa Barbara

M.S., California State University, Los Angeles

History, Art History, Geography, Political Science

B.A., M.S., California State University, Los Angeles

M.A., Ph.D., University of Maryland, College Park

B.A., University of California, Berkeley

B.S., Humbolt State University

Mathematics, Computer Science

Ph.D., University of Southern California

A.S., Washtenaw Community College

B.S.N., M.S.N., California State University,

A.A., Rio Hondo Community College

A.A., Los Angeles Valley Community College

B.A., California State University, Northridge

M.A., Graduate Theological Union, Berkeley

M.A., Ph.D., University of California, San Diego

M.A., Miami University, Ohio

Communication

Knapp, Joshua (2000)

Kohn, Dafna (2001)

Kojima, Tetsuro (2000)

Kolchakian, Misty (2005)

Psychology, Education

Krider, Terrance M. (1981)

Respiratory Therapy

Kunkler, Constance (2006)

Dominguez Hills

Landeros, Darlene (2001)

B.A., University of LaVerne

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Sociology, Philosophy

Child Development

Lane, David C. (1989)

Nursina

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B.S., Loma Linda University

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Psychology, Education

Keys, S. Carolyn (2001) Dean, Student Services B.A., California State University, Fullerton M.B.A., National University, La Jolla

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Physics & Engineering B.E., University of Poona M.S., Ohio State University Registered Professional Engineer

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Mathematics, Computer Science B.S., M.A., California State University, Long Beach

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King, William F. (1970) History, Art History, Geography, Political Science A.A., Ventura College B.A., University of Redlands M.A., Ph.D., Claremont Graduate School

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Kittle, Paul (2004)

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Earth Sciences, Astronomy B.A., M.S., Ed.D., University of Southern California

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Agricultural Sciences B.S., M.S., California State Polytechnic University, Pomona

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Psychology, Education B.A., Pomona College M.A., University of Missouri Ph.D., University of Missouri, Columbia

Loyd, Rene (1999)

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Counseling B.A., M.A., California State University, Fullerton

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Music B.A., B.M., Biola University M.M., California State University, Long Beach

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Perkins, Robert (2001) Architecture & Engineering Design Technology

B.S.C.E., Princeton University M.Arch., University of Colorado

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Pop, Horia C. (1998)

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Psychology, Education A.A., Mt. San Antonio College B.A., California State University, Fullerton M.A., University of California, Riverside

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Biological Sciences A.A., Ventura College B.A., University of California, Santa Cruz M.S., California State University, Fullerton Ph.D., Loma Linda University

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Richardson, Lanny (1995) Air Conditioning & Welding

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Learning Assistance B.S., California State Polytechnic, Pomona M.S.Ed., University of Southern California

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Music B.S., University of Connecticut M.A., Claremont Graduate University

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Rudd, Terry Shaylor (1988)

Mental Health Technology A.S., East Los Angeles College B.S., California State University, Fullerton M.S., California State University, Los Angeles

Ruh, Marc T. (1997)

Physical Education A.A., Mt. San Antonio College B.A., University of California, Santa Barbara M.A., Azusa Pacific University

Runnebohn, Stephen (1987)

Dean, Humanities & Social Sciences B.S., M.A., Ball State University Ph.D., University of Missouri

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Learning Assistance B.S., California State Polytechnic University, Pomona M.Ed., California Lutheran College.

Ryasko, Charles (2002)

Electronics & Computer Technology A.A., Mt. San Antonio College B.S., California State Polytechnic University, Pomona

S

Sanchez, Andrew (2001) Mental Health Technology A.S., R.N., Mt. San Antonio College

Sanchez, Juan (2005) Physical Education

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Schaina, Lance M. (1989)

Mathematics, Computer Science B.S., Harvey Mudd College M.S., California State Polytechnic University, Pomona

Schmidt, David (2002)

Electronics & Computer Technology A.A., Mt. San Antonio College B.V.Ed., M.A.Ed., California State University, San Bernardino

Schmidt, Sherry (1985)

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Physics & Engineering B.S., University of California, Santa Barbara M.S., University of Illinois, Urbana-Champaign

Sciore, Donald (1999)

Art, Animation & Broadcasting B.F.A., California State University, Fullerton

Scott, Brian (2001)

Agricultural Sciences A.S., Mt. San Antonio College B.S., California State Polytechnic University, Pomona

Scott, Sarah (2007)

Biological Sciences B.S., University of Massachusetts, Amherst M.S., University of Connecticut, Storrs

Shannon, Cynthia (1991)

Biological Sciences A.A., Fullerton College B.A., California State University, Fullerton B.S., M.S., California State Polytechnic University, Pomona

Sharpe, Paul W. (1997)

Public Services B.A., College of Santa Fe M.S.W., California State University, San Bernardino Certified Substance Abuse Counselor, UCLA

Shepherd, John C. (1981)

Aircraft Maintenance & Manufacturing A.A., Chaffey College Community College Instructor Credential C.C. Supervisory Credential

Sholars, Joan (1991)

Mathematics, Computer Science B.A., M.A., California State University, Fullerton

Shull, Stephen (2006)

Fire Technology B.S., Southern Illinois University M.S., California State University, Long Beach

Silva, Lawrence (2005)

Learning Assistance B.A., California State Polytechnic University, Pomona M.A., Chapman University

Smith, Daniel E. (1998) Art, Animation & Broadcasting

B.A., California State University, Fullerton

Smith, James B. (1998)

Counseling B.A., M.A., California State University, Fullerton

Smith, John K. (2001)

Public Services B.A., M.S.W., Indiana University Ph.D., International University for Graduate Studies

Soares, Darrow (1992)

Air Conditioning, Welding, & Water Technologies A.A., Riverside City College B.A., University of California, Riverside M.A., California State University, San Bernardino

Sommers, John (2007)

Administration of Justice B.S., Southwest University, Louisiana

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Counseling B.A., University of California, San Diego M.A., San Diego State University

Sparks-Mackey, Maxine (1990)

History, Art History, Geography, Political Science B.A., University of Redlands M.P.A., University of Southern California Ph.D., Claremont Graduate School

Spaulding, Ralph A. (1970)

History, Art History, Geography, Political Science B.A., University of Santa Clara M.A., Claremont Graduate School

Stepp-Bolling, Eric (1977)

Learning Assistance B.A., University of California, Santa Barbara M.A., State University of New York at Fredonia M.S., California State University, Fullerton

Stern, Kerry (1990)

Dean, Library & Learning Resources A.A., Citrus Community College B.A., California State University, Fullerton M.S.L.S., University of Southern California

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Stewart-Thomas, Michelle (2007) Sociology, Philosophy M.S., Purdue University M.S., M.A., Fuller Theological Seminary Ph.D., University of Southern California, Los Angeles

Stokes, Nona (1990) American Language B.S., Howard University M.S., Ph.D., Georgetown University

Strand, Richard W. (2001) *Theater* B.S., Eastern Michigan University M.F.A., University of Iowa

 Strope, Byron (1990)

 Aircraft Maintenance & Manufacturing
 A.S., Chaffey College
 B.S., California State Polytechnic University, Pomona
 F.A.A. Certificates, Airframe and Powerplant, Inspection Authorization
 Private Pilot, F.C.C.
 F.A.A. Safety Counselor
 F.A.A. Designated Mechanic Examiner

Stuard, Bob (1986) Sign Language

A.A., San Diego Mesa College B.A., University of California, San Diego M.B.A., California State University, Dominguez Hills

Sullivan, Michael P. (1991)

English, Literature & Journalism B.A., Hamilton College M.A., State University of New York Ph.D., University of Rhode Island

Summers, Melody (2006) Mathematics, Computer Science B.S., M.S., California State Polytechnic University, Pomona

Sun, Christine (2001) Mathematics, Computer Science B.S., National Taiwan University M.A., Ph.D., University of South Carolina Swartz, Pauline (2006)

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Tatoian, Vahe (1990) Physics, Engineering B.S., Yerevan University, Armenia M.S., Drexel University

Terreri, Joseph P. (1989) Mathematics, Computer Science B.S., M.S., California State Polytechnic University, Pomona

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Thomas, Antoine (2006) Counseling B.A., University of California, Riverside M.S., California State University, Long Beach

Thomas, James D. (1998) English, Literature & Journalism B.A., Westmont College M.A., Ph.D., Claremont Graduate University

Todd, Douglas (1995) Physical Education A.A., El Camino College B.A., California State University, Long Beach M.A., California State University, Dominguez Hills

Ton, Chan (2005) *Counseling* B.A., University of California, San Diego Tran, Frank (2002) Mathematics, Computer Science B.S., University of California, Davis M.A., University of California, Santa Barbara

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Architecture & Engineering Design Technology A.A., Cerritos College B.A., California State University, Long Beach M.A., College of St. Thomas

Vice, Robert Glenn (1999)

Business Administration B.A., Florida State University M.A., Louisiana State University, New Orleans

Vigano, Barbara (1989) Foreign Languages B.A., M.A., California State University, Fullerton

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Foreign Languages B.A., California State University, Long Beach M.A., Ph.D., University of California, Irvine

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Agricultural Sciences A.S., Mt. San Antonio College B.S., M.S., California State Polytechnic University, San Luis Obispo Ph.D., Michigan State University

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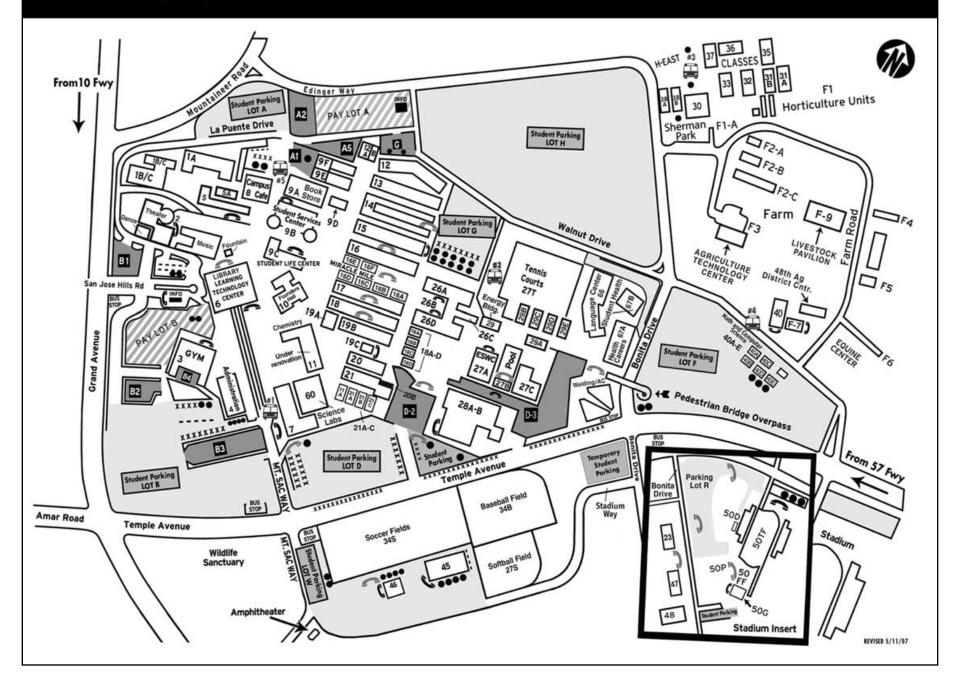
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Board Room			
Community Education			
Copy Center			
Human Resources			
Instruction Office			
Mail Center			
Marketing & Communication			
Parking Office			
Training Source			
Admissions			
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210 FWY	GLENDORA 210 FWY
IRWINDALE BALDWIN PARK 10 FWY W. COVINA WAL	NA LA VERNE N POMONA Holt Ave.
60 FWY LA PUENTE INDUSTRY Colima Rd. HACIENDA HEIGHTS	Vantarie BAR DIAMOND
DISTRICT MAP	PAY LOT
Student Services Center	STUDENT PARKING STAFF PARKING
Career Placement Counseling Disabled Student Programs & Services EOPS/CARE/CalWORKs	HANDICAP PARKING 30 MIN.
Financial Aid/Veterans Affairs High School Outreach	PARKING
Swine Barn	XXX PARKING METERS
Division Office	VAN ACCESS SERVICES
Welcome Back Center	
Wellness Center	OUTDOOR PUBLIC PHONE
Tutorial Center] 37	*NOTE: ONE PHONE AT EACH LOCATION IS SET-UP FOR AUTO DIAL TO SECURITY AT NO CHARGE FOR EMERGENCY USE ONLY Revised 5/18/2007

An Era of "New Beginnings" . . .

Having celebrated 60 years of excellence and distinction, Mt. SAC has launched an era of "new beginnings," offering you ENHANCED programs, a <u>REVITALIZED</u> campus, and <u>FRESH</u> opportunities to foster your success in today's world. Whether you are pursuing one of our 200 degree and certificate programs or upgrading your job skills, our faculty and staff remain fully committed to providing you <u>QUALITY</u> instruction, student <u>SUPPORT</u> services and a first-rate learning environment that will enable you to <u>LEARN</u>, <u>GROW</u> and <u>THRIVE</u>!

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> > Christopher McDonald Professor, Mathematics