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Much appreciation to the following individuals for their contributions to this Catalog:

Editors

Deborah Boroch, Ed.D., *Chief Editor*Clarence Brown

Editorial Assistants

Jamaika Fowler Joanne Greenspan Linda Potter

Indexer

Bonny McLaughlin

Design & Production

Greg MacDonald, Chief Designer
John M. Lewallen, Covers
Linda Lundgren, Opening & Section Pages

Photographers

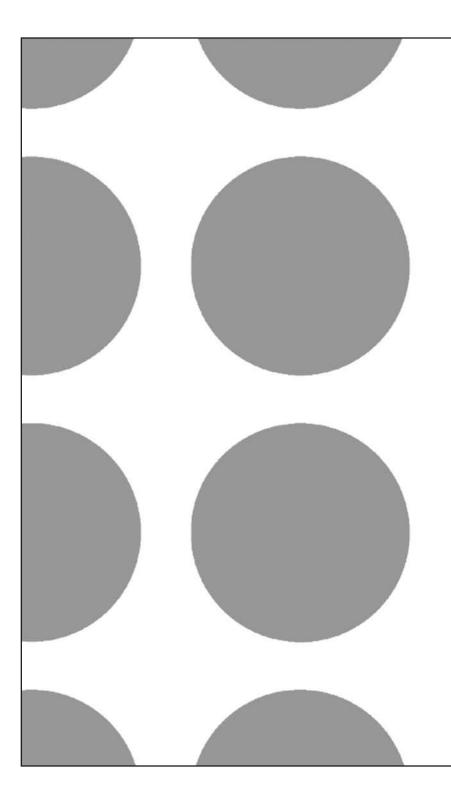
Mike Taylor, *Chief Photographer*Jeffrey George

Jason Hamilton

Printing

Delta Printing Solutions

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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 2008-09 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

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

Dream it, BE IT! ... at MT. SAC

At Mt. San Antonio College, we believe that if you can dream success, you can achieve it. That's why this 2008-09 College Catalog promotes the theme, "Dream it, Be it!" Whatever your dream—a college degree or a new job skill—we stand prepared to provide you the quality instruction, the tools and the support services to fulfill it.

In this Catalog, you will find more than 200 degree and certificate programs, as well as a full range of basic skills and personal development courses. I encourage you to use the Catalog as your planning and resource guide to explore the vast scope of opportunities, services and programs that Mt. SAC offers.

We offer excellent university 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.

As the largest of California's 109 community colleges, Mt. SAC regards itself as the "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 continue to bring to the College.

So go ahead and dream big!

Dr. John S. Nixon President/CEO

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Fred Chyr, Vice President

Dr. David K. Hall, Clerk

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Judy Chen Haggerty, Esq., Member

Cheryl Jamison, Student Trustee

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2008-09 College Calendar

Fall 2008

July 4 July 7 July 23 July 23 - August 20	Independence Day (campus closed) International student admission application due for 2008 Fall Semester Community Education Registration begins for 2008 Fall Semester Registration period for 2008 Fall Credit Classes
August 13 - 20 August 24 August 25	Wait List Registration Period for 2008 Fall Semester Residency determination date 2008 Fall Semester begins
September 1	Labor Day (campus closed)
September 5	Last day to add a class
September 5	Last day to change residency for 2008 Fall Semester
September 12	Last day to withdraw without a "W" for 16-week classes
September 26	Last day to change grading option for 16-week classes
October 10	Last day to petition for Fall Semester and Winter Intersession graduation
October 31	Last day to withdraw from Fall Semester for 16-week classes
November 3	International student application due for 2009 Winter Intersession
November 11	Veteran's Day (campus closed)
November 19	Registration begins for 2009 Winter Intersession
	and 2009 Spring Semester Credit Classes
November 19	Community Education Registration begins for 2009 Winter Intersession
	and 2009 Spring Semester
November 27 - 30	Thanksgiving Recess (campus closed)
December 1	International student application due for 2009 Spring Semester
December 8 - 14	"Book Buy Back" at SacBookRac
December 8 - 14	Final Exams
December 14	2008 Fall Semester Ends
	Winter Recess for students

2008-09 College Calendar

Winter 2009

November 3, 2008 November 19, 2008	International students application deadline for Winter 2008 Online & telephone registration begins for Winter and Spring 2009					
December 1	International student application deadline for Spring 2009					
December 23	Telephone & online registration ends for Winter 2009					
January 5	Winter Intersession begins					
January 19	Martin Luther King, Jr. Day—(campus closed)					
February 13	Lincoln's Birthday—(campus closed)					
February 15	Winter Intersessions ends					
February 16	Washington's Birthday—(campus closed)					

Spring 2009

November 19, 2008	Online & telephone registration begins for Winter and Spring 2009				
December 1	International student application deadline for Spring 2009				
January 1	New Year's Holiday—(campus closed)				
February 18	Online & telephone registration ends for Spring 2009				
February 20	Flex/Staff Development Day				
February 22	Residency determination date				
February 23	Spring Semester begins				
February 27	Spring application period ends				
March 6	Last day to add a 16-week class				
March 6	Last day to change residency for Spring 2009				
March 13	Last day to withdraw Without a "W" for 16-week classes				
March 27	Last day to change grading option for a 16-week classes				
March 31	Cesar Chavez Day of Observance—(campus closed)				

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2008-09 College Calendar

Spring 2009 (continued)

April 10	Last day to petition for June 2009 Graduation
May 1 May 4 May 13 - June 17 May 25	Last day to withdraw from Spring Semester International student application deadline for Summer Intersession 2009 Telephone and online registration for Summer 2009 Memorial Day—(campus closed)
June 8 - 14 June 12 June 14	Final Exams—(<i>see</i> schedule in Mt. SAC Info Guide) Commencement Spring Semester ends

Summer 2009

May 4 May 13 - June 17	International student application deadline for Summer 2009 Online & telephone registration begins for Summer 2009
June 17 June 22	Online & telephone registration ends for Summer 2008 Summer Intersession begins
July 3 - 4 July 6	Independence Day—(campus closed) International student application deadline for Fall 2009
August 2	Summer Intersession ends

COLLEGE DIRECTORY

The main College telephone number is (909) 594-5611.
After you have reached the College, dial your desired extension.

Academic Counselor for Student Athletes	5929
Academic Senate	
*Accounting & Management	
Advising	4293
Administrative Services	4230
Admissions & Records	4415
*Aeronautics & Transportation	3098
Affirmative Action	4225
*Agricultural Sciences	4540
*Air Conditioning & Welding	5107, 4638
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*Architecture & Design	4803
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*Learning Assistance Center	
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Media Services	
*Medical Services	
*Mental Health Technology	
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Mountie Stop	
*Music	
*Natural Sciences Division	
*Noncredit Programs	
*Nursing	
*Office Technology	
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*Physics, Engineering	4421
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*Registered Veterinary Technology	1511
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*Respiratory Therapy	
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SacBookRac	
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*Service Learning	
Short Stop	
*Sign Language	
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*Teacher Prep Institute	
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*Theater	4337
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Section 1

The College



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; and
- 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 six 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 instructional divisions within which are 44 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, single-campus community college with a combined Credit, Continuing Education, and Community Service student enrollment of over 65,000. In 2006, Mt. SAC proudly celebrated 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

The mission of Mt. San Antonio College is to welcome all students and to support them in achieving their personal, educational and career goals in an environment of academic excellence.

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.



BOARD OF TRUSTEES	
President	Dr. Manuel Baca
Vice President	Fred Chyr
Clerk	Dr. David K. Hall
Member	Rosanne Bader
Member	Judy Chen Haggerty, Esq.
Student Trustee	Cheryl Jamison
College President	Dr. John S. Nixon

ADMINISTRATION	
Administrative Services	Ext. 4230
Vice President, Administrative Services	Michael Gregoryk
Administrative Director, Auxiliary Services	Jay Devers
Director, Auxiliary Services Accounting	Sid Young
Director, Bookstore	Suzanne Luetjen
Director, Bursar's Office	Sheree Culross
Manager, Custodial Services	Ken McAlpin
Director, Facilities Planning and Management	Gary Nellesen
Assistant Director, Facilities, Planning and Management	Becky Mitchell
Facilities Project Manager	Roger Sneed
Director, Fiscal Services	Linda Baldwin
Assistant Director, Fiscal Services	Rosa Royce
Director, Food Services/Satellite Operations	Becky Carr
Director, Grounds and Transportation	Carol Baker
Director, Maintenance	
Director, Payroll	Donna Evans
Interim Director, Public Safety	
Assistant Director, Public Safety	Michael Montoya
Director, Purchasing	
Director, Safety, Health Benefits, and Risk Management	
Director, Technical Services	William Eastham
Human Resources	Ext. 4225
Interim Vice President, Human Resources	Dr. Jack Miyamoto
Director, Human Resources	Trinda Hoxie
Information and Educational Technology	Ext. 4357
Chief Technology Officer	Victor Belinski
Director, Enterprise Applications Systems	Sheryl Hullings
Director, Academic Technology and Infrastructure	Dale Vickers
Assistant Director, Academic Technology and Infrastructure	Shanti Atashpoush

ADMINISTRATION (continued)	
President's Office	Ext. 4121/4215
Director, Marketing and Communication	
Interim Executive Director, Mt. SAC Foundation	Richard Morley
Instruction	Ext. 4200
Vice President, Instruction	
Interim Dean, Instructional Services	,
Dean, Arts Division	Dr. Susan Long
Dean, Business Division	John Heneise
Interim Associate Dean, Business Division	Richard Patterson
Director, Child Development Center	
Dean, Humanities and Social Sciences Division	Dr. Stephen A. Runnebohm
Associate Dean, Humanities and Social Sciences Division	
Dean, Library and Learning Resources Division	
Director, Learning Assistance Center	2
Dean, Natural Sciences Division	
Interim Associate Dean, Natural Sciences Division	
Dean, Physical Education Division	
Director, Physical Education/Wellness Programs	
Dean, Technology and Health Division	
Associate Dean, Technology and Health Division	
Director, Nursing Program	
Dean, Community Education	
Director, Basic Skills	
Director, Community Education and Contract Training	
Director, ESL and Intercultural Programs	
Assistant Director, ESL and Intercultural Programs	
Coordinator, ESL Curriculum and Assessment	
Director, Grants	
Director, Research and Institutional Effectiveness	Barbara McNeice-Stallard
Student Services	
Vice President, Student Services	, , ,
Dean, Counseling	
Associate Dean, Counseling	
Dean, Student Services	
Dean, Enrollment Management	
Assistant Director, Admissions and Records	•
Director, Upward Bound	
Coordinator, CalWorks/CARE	
Director, Assessment and Matriculation	•
Director, Career and Transfer Services	
Director, Disabled Student Programs and Services (DSP&S)	Grace Hanson

ADMINISTRATION (continued)

Director, Extended Opportunity Programs and Services (EOPS)	Irene Herrera
Director, Financial Aid	Susan Jones
Director, Health Services	Sandra Samples
Director, Student Life	Dr. Dyrell Foster

INSTRUCTIONAL DIVISIONS

Arts Division Ext. 5200

Dr. Susan Long, Dean

The Arts Division is composed of four departments: Art, Music, Commercial and Entertainment Arts, 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 Division Ext. 4600

John Heneise, Dean Rich Patterson, Interim Associate Dean

The Business Division is composed of six educational departments, three economic and workforce development grants 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 (Family & Consumer Sciences, Fashion Merchandising & Design, Hospitality and Restaurant Management, Interior Design and Nutrition & Food), and Office Technology. For additional information, contact the division at ext. 4600.

The economic and workforce development grants are the 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, with Janette Henry as the Director. For additional information, contact the Child Development Center at ext. 4920.

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, 626-337-2101

INSTRUCTIONAL DIVISIONS (continued)

Community Education Division

Ext. 4220

Donna Burns, Dean

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 composed 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

Dean (vacant)

Meghan Chen, Director, Learning Assistance Center

The Library and Learning Resources Division includes Learning Assistance, Library, Media Services, 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	Chair, Pat Bower, Ext. 4304
Library	Chair, Emily Woolery, Ext. 4264
Media Services	Ext. 4270
Tutoring	Ext. 6605

INSTRUCTIONAL DIVISIONS (continued)

Natural Sciences Division Ext. 4425

Larry L. Redinger, Dean Matthew Judd, Interim Associate Dean

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

Deborah Blackmore, Dean/Athletic Director Joeseph 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, generating millions of dollars into the local economy.

INSTRUCTIONAL DIVISIONS (continued)

Technology and Health Division

Ext. 4750

Dr. Sarah Daum, Dean

Jemma Blake-Judd, Associate Dean

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



Section 2

Matriculation Services:

Admissions and Registration

Assessment and Placement Orientation

Counseling/Advisement

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 (for fee purposes) 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.
- 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.
- In determining the place of residence, the following rules are to be observed:
 - a. There can be only one residence.
 - 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.
 - A residence cannot be lost until another is gained.
 - 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.

Concurrent Enrollment for K-12 Students (College Starter)

The College Starter program is designed for gifted high school juniors and seniors (11th and 12th grades) 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. Juniors will only be allowed to enroll in a single course. Seniors wishing to enroll in two courses must have a 3.0 grade point average or above.

College Starter application packets may be obtained in the Counseling and Advising Services office or online at

http://testing.mtsac.edu/students/admissions/college starter.html

Only college level courses may be taken as part of the College Starter program. Students preparing to complete the CASHEE examination are exempted from this limitation. Students needing to make up a high school deficiency can apply to participate in the High School Referral Program. Please go to the Community Education Center in Building 30.

A parent/guardian approval form allowing the student to participate must be submitted as part of the application process. Parents must acknowledge that their student will be instructed in an adult environment and that the student will be expected to conform to all college policies.

Students who have previously enrolled and who have dropped their courses and/or have not made satisfactory progress will not be allowed to continue their participation in the College Starter program.

Students enrolled in grades 10 and earlier may be considered for limited enrollment. 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 C+ average/2.5 cumulative school grade point;
- 4. Meet all course prerequisites;
- 5. Take the Mt. SAC placement test in English and Reading.

Students must meet the Dean of Counseling to secure permission to participate.

College credit will be earned as a result of taking courses at Mt. San Antonio College and those grades will become part of the student's permanent college record. High school credit may be possible at the discretion of the receiving high school. Please speak to your high school counselor.

^{*} 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.

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 lower-division 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

Articulation Agreements with secondary schools (high schools, Regional Occupational Programs and Adult Education) are established annually during the fall and are valid for the current school year. Articulation is a faculty driven process with three possible methods of rewarding student achievement in the Career Technical Education courses taken at the secondary level. The three types of articulation include Project Credit, Course Equivalency and College Units of Credit.

Project Credit is the minimum level of articulation and results in a certificate to be submitted in a specified college course in lieu of a specific required project or projects. Course Equivalency recognizes the information gained from the secondary experience and allows students to use that experience to continue their career education by taking an advanced college level course. Project Credit and Course Equivalency articulation will not result in units of credit at the college.

College Units of Credit is the most common form of articulation between the college and secondary schools. Students participating in these agreements must meet an exam requirement as stated in California Code of Regulations, Title V. Students that successfully meet the exam requirement and supply the correct paperwork will be awarded a grade and units of credit. The credits will appear with a notation of "by exam" on a Mt. SAC transcript in the semester closest to the completion of their secondary course.

Articulation with secondary programs is a time sensitive process. Secondary students must complete the required paperwork and pass required exams at the completion of their secondary course. If a course sequence is required at the secondary level, the student must request the units at the completion of the course sequence. The required paperwork must be submitted by the instructor of record on the Articulation Agreement within two months of course or sequence completion. Students may not seek college units retroactively.

Required paperwork includes:

- 2+2 Articulation Equivalency Form
- High School Transcript
- ROP/Adult Education Certificate of Completion

Forms are available from participating high school instructors. Secondary instructors submit all required paperwork to the Tech Prep office at Mt. San Antonio College. Articulation forms will be accepted from authorized secondary instructors only.

College credit issued by ROP and/or Adult Education centers will be accepted if the issuing programs 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).

For more information on articulations with high schools, ROPs and adult schools, please contact the Tech Prep/Articulation Office, Bldg. 11A, at (909) 594-5611, ext. 5252.

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 2008-09 school year are as follows:

- Summer 2008 First Monday of April
- Fall 2008 First Monday of June
- Winter 2009 First Monday of November
- Spring 2009 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.

Matriculation

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 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 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) and COMPASS/ESL reading tests 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 and Matriculation, 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 and reading 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 publisher. Wonderlic is the Ability to Benefit test administrator at Mt. SAC. Testing is conducted at the Assessment Center. For further information regarding Ability to Benefit regulations, contact the Financial Aid Office.

EXEMPTION FROM ASSESSMENT

Students are exempt from Assessment if they:

- 1. enroll in non-credit or community services classes only;
- select and enroll in a general interest class which does not have prerequisites;
- verify English or math eligibility based on course work at Mt.San Antonio College or other regionally accredited institutions;
- 4. verify other test scores accepted by Mt. San Antonio College.

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 with Counseling and Advising Services 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 ORIENTATION AND COUNSELING/ADVISEMENT

Students are exempt from Orientation and Counseling/Advisement if they:

- 1. enroll in non-credit or community services classes only;
- 2. possess an Associate or higher degree from an accredited institution;
- 3. attain 60 units or more from an accredited institution:
- 4. select and enroll in a general interest class only. All students must meet course prerequisites.

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 AND COREQUISITES

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.

Section 3

Academic Policies and Requirements



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. In some cases, a group of courses may carry a collective limitation on the number of allowed repetitions for that entire group/cluster of courses (for example, when a similar educational activity is offered in beginning and advanced course levels.) 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 will not earn additional units 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 twice. On repetition, the 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.

After the first three weeks for a 16-week class in a regular term or after the first 20 percent of a short-term course, students shall be allowed a maximum of two withdrawals for a given course where a mark of "W" is posted for both withdrawals. In cases in which the student's grade and/or withdrawal was the result of an extenuating circumstance, students may file a petition to repeat a class an additional time (whether the prior enrollment was due to a substandard grade or a withdrawal.) Extenuating circumstances are verified accidents, illnesses or other circumstances beyond the control of the student. When course repetition is approved pursuant to this provision, the previous grade and credit earned (if any) shall be disregarded in computing the student's grade point average each time the course is repeated. Participation in an intervention program may be required.

Definitions

Primary Term: A primary term is either the Fall or Spring semester. In contrast, both Winter and Summer intersessions are not considered to be primary terms

Continuing Student:

- A continuing student is one who enrolls in at least one credit course and receives a grade, including a W in any term during the academic year.
- A continuing student retains rights to follow graduation and/or certificate requirements for the year they entered or any catalog thereafter, as long as the student maintains continuous enrollment.

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 (general education 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 primary term (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 primary term after initial enrollment at Mt. SAC, he/she:

- 1. 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 postsecondary institution; or
- 3. receives a waiver in advance or approval of a petition for exceptional action because of extenuating circumstances.

GRADING SCALE		
Evaluative Symbol	Definition	Grade Point Value
A	Excellent	4
В	Good	3
C	Satisfactory	2
D	Passing (<i>less than satisfactory</i>)	1
F	Failing	0
CR	Credit (at least equivalent to a "C" grade. Units awarded are not counted in determining the student's grade point average).	
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.)	

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.

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 semesterlength 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. If a change is desired, the student must declare his/her intent to be graded on a Credit/No Credit basis at the Admissions and Records Office no later than the last day of the fourth week of instruction in a full semester class. The grading option may not be changed at a later date. Students enrolled in short-term courses of less than semester length, but greater 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-

Number of Units Applicable to General Education—Breadth Requirements for

entry/open-exit course. In any short-term course of less than six weeks, students must determine their grading option at the time of registration.

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.
- 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.
 - 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).
 - 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.
- The department will establish written guidelines by which the eligibility of a student to take such an examination is determined.
- 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.

ADVANCED PLACEMENT EXAMINATIONS FOR CSU GENERAL EDUCATION — BREADTH REQUIREMENTS

AP Subject	Students Obtaining Full or Subject-Area Certification	
Biology	3 semester units toward Area B2	
Chemistry	6 semester units toward Areas B1 and B3	
Economics: Macroeconomics	3 semester units toward Area D2	
Economics: Microeconomics	3 semester units toward Area D2	
English: English Language & Composition	3 semester units toward Area A2	
English: English Literature & Composition	6 semester units toward Areas A2 and C2	
French: French Language	6 semester units toward Area C2	
French: French Literature	6 semester units toward Area C2	
	6 semester units toward Area C2	
Government and Politics: United States	3 semester units toward Area D8	
Government and Politics: Comparative	3 semester units toward Area D8	
History: European History	3 semester units toward Area D6	
History: United States History	3 semester units toward Area D6	
Latin: Vergil	3 semester units toward Area C2	
Latin: Latin Literature	3 semester units toward Area C2	
Mathematics: Calculus AB	3 semester units toward Area B4	
Mathematics: Calculus BC	3 semester units toward Area B4	
Music Theory	3 semester units toward Area C1	
Physics B	6 semester units toward Areas B1 and B3	
Physics C (mechanics)	3 semester units toward Areas B1 and B	
Physics C (electricity and magnetism)	3 semester units toward Areas B1 and B3	
Psychology	3 semester units toward Area D9	
Spanish: Spanish Language	6 semester units toward Area C2	
	6 semester units toward Area C2	
Statistics	3 semester units toward Area B4	

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, or through Counseling and Advising Services.

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 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

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.

INTERNATIONAL BACCALAUREATE CREDIT FOR GENERAL EDUCATION REQUIREMENTS FOR THE ASSOCIATE DEGREE **IB Examination** Number of Units Awarded to Mt. SAC General Education Business ManagementNA Computer ScienceNA Language A1 French 5 semester units toward Area C2 Mathematics 5 semester units toward Math Proficiency

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 genera 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.

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.
- In cases where a student is seeking a degree/certificate from the College, all standard graduation and residency requirements apply and must be met by completing a minimum of 12 units earned from Mt. SAC courses.

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 Vice President of Instruction at Ext. 5414 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.
- 3. **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 has:

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

Progress Probation

A student is placed on Progress Probation when the student has:

- 1. Enrolled in a total of at least 12 units, and
- 2. the cumulative percentage of all units in which the student has enrolled for which entries of "W", "I" and "NP" are recorded reaches or exceeds fifty percent.

Upon recording of Academic or Progress Probation a student shall have their registration restricted, be required to participate in a prescribed counseling intervention and be limited to enroll in a maximum of 12 units in subsequent semesters, and 4 units in a winter or spring term. while on probation.

Clearing Probation

- 1. Academic Probation The Student shall be cleared from Academic Probation when the student's cumulative grade point average is 2.0 or higher.
- 2. Progress Probation The student shall be cleared from Progress Probation when the student's cumulative percentage of units with "W", "I" and "NP" drops below fifty percent.

Probation and Dismissal Status

- 1. First Semester Probation
 - a. Academic occurs at the end of that first semester in which the student has attempted at least 12 units and has earned a cumulative grade point average below 2.0, or
 - Progress the cumulative percentage of all units in which the student has enrolled for which entries of "W", "I" and "NP" are recorded reaches or exceeds fifty percent.
- 2. Second semester Probation
 - a. Academic occurs when the student in their consecutive semester continues to have a cumulative grade point average below 2.0, or
 - b. Progress continues to have a cumulative percentage of all units enrolled recorded as "W", "I" and "NP" at fifty percent or higher.
- 3. Dismissal occurs after three consecutive semesters of Academic or Progress Probation. The student shall be dismissed for at least one semester. If the student has enrolled in the subsequent semester before the Dismissal status has been determined through the posting of the previous semester's grades, the student may be dropped from all classes.

For the purposes of this section, semesters shall be considered consecutive on the basis of the student's enrollment, so long as the break in the student's enrollment does not equal two primary terms or more.

Appeal of Dismissal

A student who is subject to dismissal may request an appeal of dismissal through the Counseling Department. If approved the student shall be required to participate in a prescribed counseling intervention and complete a contract, which shall include the number of units in which the student shall enroll. If the student chooses not to make the request, or the request is denied, the student shall be dismissed for at least one semester.

Reinstatement after Dismissal

A dismissed student may request reinstatement through the Counseling Center after an interval of one semester. The reinstated student shall be required to participate in a prescribed counseling intervention and complete a contract for reinstatement, which shall include the number of units in which the student shall enroll.

A reinstated student shall remain on a probationary, reinstated status until clearance of probation. A reinstated student shall also remain on contract until clearance of probation. Failure to comply with the terms and conditions of the contracts may result in subsequent dismissal.

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.

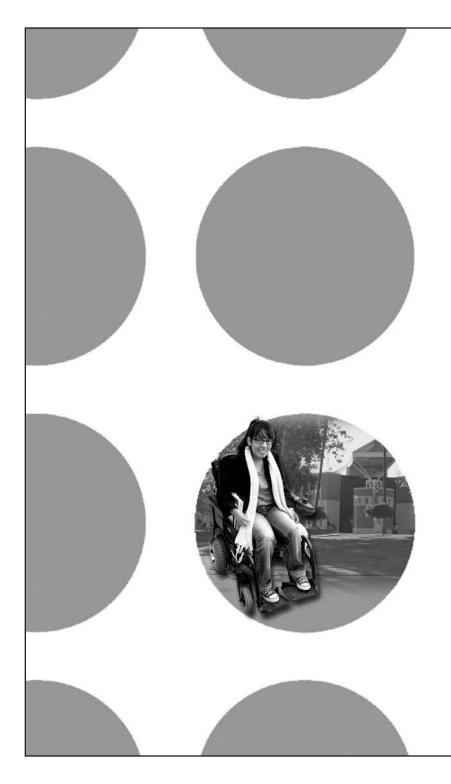
- C. A time period of at least two years must have elapsed since the end of the term of substandard work to be disregarded.
- D. Academic renewal will apply only to substandard grades: D, F, and NC.
- E. The permanent academic record shall be annotated in such a manner that all work remains legible, 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.
- 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 or online at http://mv.mtsac.edu.

Challenge of Educational Records

- 1. 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 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 utilize the existing college student grievance process (p. 259).



Section 4

Student Services and Student Life

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.
- 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).

Assessment Center Student Services Center, Ext. 4265

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

- Placement testing (English, Math, and Reading) measures students' readiness for appropriate course placement.
- 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)

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.

Counseling and Advising Services Center Student Services Center, Ext. 4380

Students can take advantage of educational planning, career exploration and decision-making, and other services offered through Counseling and Advising Services on the second floor of Building 9B.

Counselors are available to assist students who:

- are undecided about their major or career direction;
- need information about their career and transfer options;
- are having difficulty in their courses;
- need assistance with personal problems.

It is highly recommended that students see a counselor during their first semester at Mt. SAC to develop a student educational plan.

Counselors and educational advisors can also provide:

- information on course selection and planning for degree or certificate completion;
- information about major and transfer requirements to CSU, UC and private universities;
- **general** information about the college.

An appointment can be scheduled by calling (909) 594-5611, ext. 4380.

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 time-

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

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. Students may apply for aid by filing a Free Application for Federal Student Aid (FAFSA) form. A FAFSA worksheet is available in the Financial Aid Office for students interested in filing online at www.fafsa.ed.gov. For any questions or further information, contact the Financial Aid Office, ext. 4450.

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

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:

- Having a high school diploma, a GED, or passing the Ability to Benefit test. For more information on ability to benefit, contact the Financial Aid Office.
- 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.

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

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

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 are subject to the Return of Title IV funds requirements and 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 determined as follows:

- 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
- 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 California Community College Board of Governors Fee Waiver 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. In addition to the three methods, there are special classifications that qualify for an enrollment fee waiver, which is subject to certification and/or documentation. Refer to the BOG Fee Waiver application for a list of these classifications.

In addition, the college administers a variety of scholarship programs. Information about the College Scholarship Program can be obtained in the Financial Aid Office.

Student Health Services Building 67B, Ext. 4400

Medical, chiropractic, personal counseling, nursing and health education services are provided. Additional services include laboratory tests, tuberculosis screening, limited prescription medication, immunizations, pregnancy testing and referrals. All credit students who are currently enrolled and attending classes are eligible. Part-time faculty are eligible for select services. Some fees may apply. Professional health services are provided primarily on an appointment basis. Same-day appointments are also available; call between 8:00 and 8:30 a.m. First aid services are provided for all student, employees and guests of the College.

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' Services Student Services Center, Ext. 4520

Veterans' Services, 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 *Cataloa*.

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' Services 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*.

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 eligible student/ parents of 3and 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 eligible student/parents. There may be a <u>minimum daily fee</u> for this program depending on the family's gross monthly income.

Child Care Access Grant Funding

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

Fee Program

Children not qualified or accepted into any center funded program 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.

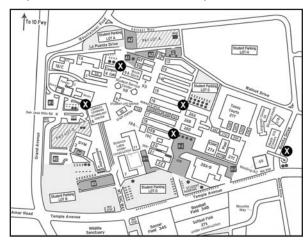
For information concerning registration dates and times, those interested should consult the latest Mt. San Antonio College *Schedule of Classes* or contact the Child Development Center at Ext. 4920.

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

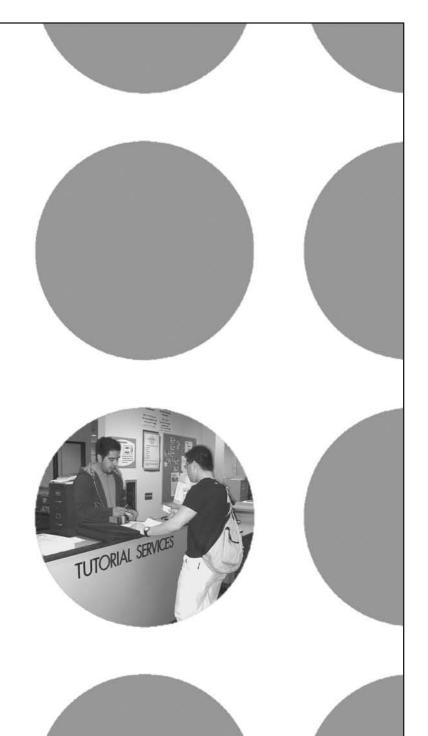
Student Government serves as the representative voice for students on all College issues and provides students with an opportunity to develop leadership skills. There are six executive officer positions and twenty Senate positions available to students interested in becoming involved in making a positive 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.

Section 5

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.

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 26A, Room 120.

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:

- Have the approval of the assigned work-experience Instructor/Coordinator.
- 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.
- 4. 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:
 - 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.

 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.

The Writing Center, Building 26B, Rooms 100, 130, 131

The Writing Center offers free services to all students. The Center provides one-on-one tutoring in writing for any course at the College; CRLA certified tutors and at least one English instructor are present at all times. In addition, the Writing Center offers a variety of workshops to help students with common writing issues, such as sentence level errors, thesis statements, essay planning and organization, and beginning college research. The Center also houses a computer lab that is available for student use to work on papers, conduct library and internet research, and develop their grammar and writing skills using self-directed educational software. Professional software is on all the computers to allow students to create presentations, and printing (regular and color), scanning and technical assistance is also available.

Math Activities Resource Center (MARC), Building 40, Room 113

The Math Activities Resource Center provides academic assistance for students enrolled in developmental (precollegiate) courses in the Math Department. Drop-in tutoring by trained tutorial staff and credentialed math instructors is free to all students enrolled in math courses from pre-algebra to intermediate algebra. Also available are:

- A group study room
- Computerized tutorial resources and software
- Video lectures on CD-ROM, VHS and DVD
- Math textbooks and solutions manuals
- Free review worksheets on many topics
- A variety of calculators for daily check-out or semester rental (with completion of an application/rental agreement)
 For more details on services and hours, please inquire at the MARC

(ext. 5014) or by e-mail at marclab@mtsac.edu.

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

Instruction and Learning Resources

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 email, 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. Degrees & 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*)

COMMERCIAL AND ENTERTAINMENT ARTS 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.

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

Aesthetics for Technology

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.

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

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 Certificate

<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.

Computer Graphic Design/Photography

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.

<u>Job Market</u>: 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.

<u>Job Market</u>: 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. Degrees & Certificates

<u>Prime Focus</u>: The curriculum of the CIS program covers such areas as basic computer literacy, microcomputer applications, the Internet, telecommunications, software development, computer networks, and operating systems. Software development incorporates creating graphical interfaces, client/server applications, object-oriented programming techniques, and web based applications.

Course offerings include introduction to information systems, microcomputer applications which include the Microsoft Office suite of applications, beginning and advanced relational database design in Access and Oracles, systems analysis and design, telecommunications and networking, Windows and Linux operating systems, information systems security, client / server side web programming and software development courses in: Visual Basic, Java, C++ and C#.

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.

<u>Job Market</u>: 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.

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

Computer Science/Mathematics

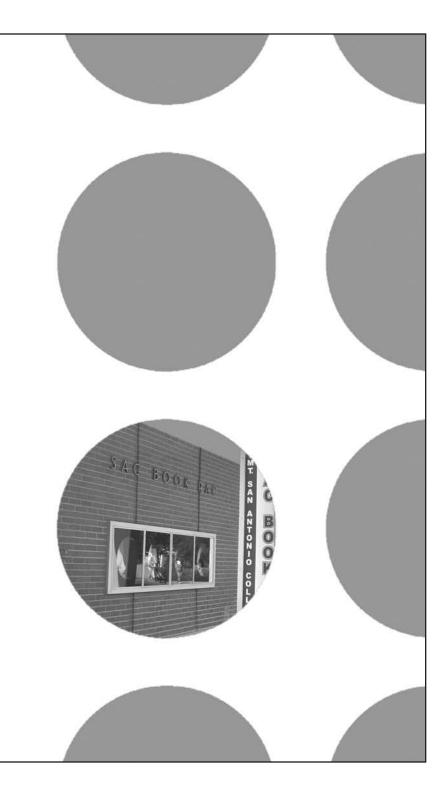
Transfer

<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.

<u>Job Market</u>: 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)

Section 6

Campus Facilities



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 quided 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, state-of-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.

Campus Facilities

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

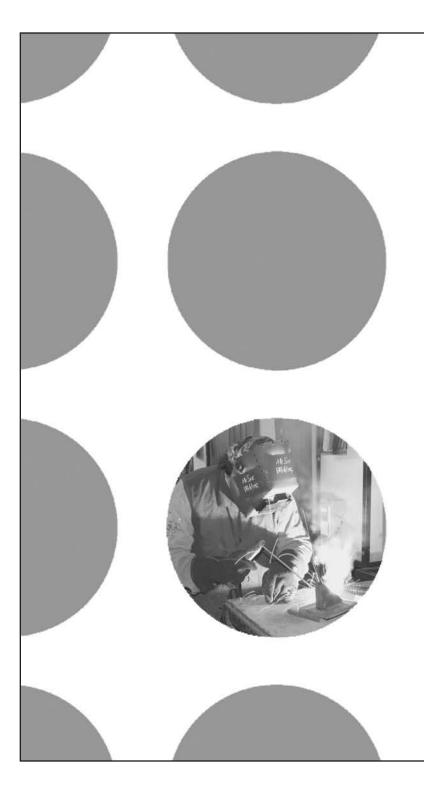
The planetarium offers instructional support for college classes, as well as a wide variety of public programs on a regular basis. Information on planetarium shows is available through a 24-hour "hotline." Please call (909) 594-5611, Ext. 3810. Special programs are offered for elementary and secondary 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 a Certificate

PROGRAMS OF STUDY LEADING TO A CERTIFICATE

Mt. San Antonio College offers two different types of certificates for credit programs of study:

- "Certificates of Achievement" are awarded for completion of an approved program of study meeting certain requirements of the California Community College Chancellor's Office in terms of total unit values and other criteria. The possession of such a certificate is favorably recognized by business and industry and is frequently a requirement for professional advancement. Included in the Certificates of Achievement are a wide variety of occupational certificates as well as two certificates designed to reflect completion of general education requirements for students preparing to transfer to a California State University campus [CSU General Education Breadth] or to a campus of the University of California or CSU [Intersegmental General Education Transfer Curriculum (IGETC).] The awarding of all Certificates of Achievement is noted on a student's official transcript.
- "Skills Certificates" are lower-unit certificates in various occupational areas. Although the awarding of Skills Certificates is not noted on a student's official transcript, the student may apply for and receive a documentation certificate from the college that may be of value in documenting knowledge and skills to potential employers. In many cases, entry-level Skills Certificates may be part of a ladder-track of increasing levels of preparation in an occupational area, and courses used to complete them may form a core of requirements that are augmented as students pursue higher levels of proficiency toward a Certificate of Achievement.

Note: The unit requirement for Skills Certificates is below that required for some forms of financial aid eligibility. Students should consult with the Financial Aid Office to determine whether a particular program of study qualifies for financial aid.

Students who desire help in planning for a vocation or profession, or to prepare for transfer to a fouryear institution, should seek the advice of a counselor.

Requirements for all certificates include the following:

- At least 1/2 of the credits earned toward the certificate must be completed at Mt. San Antonio College
- A grade of "C" or better must be earned in each course to be applied to the certificate
- For certificates in CSU General Education Breadth and IGETC only, students must submit an Application for Certificate form in the Admissions Office during the last semester of the certificate program

Note: Completion of a Certificate of Achievement for a CSU General Education Breadth or IGETC is not the same as CSU or IGETC Certification for transfer. For more information on certification, see pages 102-110 of this catalog.

Mt. San Antonio College also awards Certificates of Competency for certain non-credit programs of study. Information on these certificates may be found on pages 224-232.

CERTIFICATES OF ACHIEVEMENT			
CSU General Education — Breadth	Children's Program Certificate:		
IGETC32	General – Level II		
Accounting	Children's Program Certificate:		
Accounting – Computerized32	General – Level III		
Accounting — Financial Planning	Children's Programs Certificate:		
Accounting — Managerial	Small Business Management		
Administrative Assistant Level II	Children's Program Certificate: Teaching 40		
Administrative Assistant Level III	Computer and Networking		
Air Conditioning and Refrigeration	Technology Level I		
Aircraft Powerplant Maintenance	Computer and Networking		
Technology — Day	Technology Level II		
Aircraft Powerplant Maintenance	Computer Graphics		
Technology — Evening	Design/Photography40		
Airframe Maintenance Technology — Day 34	Computer Systems Technology41		
Airframe Maintenance Technology — Evening 34	Construction Inspection41		
Alcohol/Drug Counseling34	Consumer Services		
Animation — Digital 2-Dimensional	Correctional Sciences		
Animation — Digital 3-Dimensional	Database Management Systems 42		
Animation — Traditional	Educational Paraprofessional — Level II 42		
Architectural Technology — Level I	Electronic Systems Technology — Level II 42		
Architectural Technology — Technology	Electronics and Computer		
Concentration Level II	Engineering Technology		
Architectural Technology — Technology	Electronics Communications		
Concentration Level III	Electronics — Industrial Systems		
Architectural Technology — Design	Electronics Technology		
Concentration Level II	Emergency Medical		
Architectural Technology — Design	Technician — Paramedic (EMT-P)		
Concentration Level III	Engineering Design Technology Level I 44		
Business: Human Resource	Engineering Design Technology Level II		
Management — Level II	Engineering Design Technology Level III 44		
Business: Human Resource	Escrow Management		
Management — Level III	Family Child Care45		
Business: International — Level II	Fashion Design Level II		
Business: International — Level III	Fashion Merchandising — Level II		
Business: Management — Level II	Fire Technology45		
Business: Management — Level III	Floral Design		
Business: Retail Management — Level II 38	Horse Ranch Management		
Business: Retail Management — Level III	Hospitality: Catering		
Business: Small Busines	Hospitality: Hospitality		
Management – Level II	Management – Level II		
Business: Small Business	Hospitality: Restaurant		
Management – Level III	Management – Level II		
Children's Program Certificate: Administration 39	Infant/Toddler Development		
	Interior Design Level I — Merchandising47		

Interior Design Level II — Design47	Photography51
Interior Design	Programming in C++51
Level II — Professional Designation 47	Programming in Visual BASIC51
Interior Landscaping47	Radio Broadcasting: Behind the Scenes 51
Kitchen and Bath Design	Radio Broadcasting: On the Air51
Landscape and Park Maintenance	Real Estate52
Landscape Design and Construction	Real Estate Appraisal52
Landscape Equipment Technology	School Age Child – Specialization
Landscape Irrigation	Sign Language/Interpreting52
Law Enforcement	Sports Turf Management53
Legal Office Specialist	Telecommunications53
Livestock Management	Television Production53
Manufacturing Technology	Theatrical Costumer53
Marketing Management	Tree Care and Maintenance53
Medical Office Specialist	Water Technology53
Mental Health	Web Page Design
Technology — Psychiatric Technician 49	Welder: Licensed
Microcomputer Productivity Software50	Welder: Automotive
Nursery Management50	Welding, Cutting & Modification54
Park Management	Welder: Gas Tungsten ARC Welding54
Pet Science51	Welder: Semiautomatic ARC Welding54

CERTIFICATES OF ACHIEVEMENT

CSU General Education Breadth

Completion of coursework for this certificate is intended for students who are planning to transfer to one of the campuses of the California State University system. In most instances, completion of courses for this certificate will assist students in transferring without the need to take additional lower-division general education courses to satisfy university general education requirements.

Note: this certificate signifies completion of the CSU general education requirements ONLY; transfer students must generally also satisfy lower-division requirements in a specific major in order to be able to transfer with junior-level status. It is highly recommended that all students intending to transfer consult with Counseling and Advising Services, and that they refer to the current catalog of their specific transfer university.

For requirements, see page 104 of this catalog (the reference page is the CSU General Education pattern requirements page in the "Transfer" section 9.)

Intersegmental General Education Transfer Curriculum (IGETC)

Completion of coursework for this certificate is intended for students who are planning to transfer to a public 4-year university within California. Most students who follow IGETC are planning to transfer to a University of California campus, but this pattern is also accepted by the California State University system. Completion of courses for this certificate will permit students to transfer without the need to take additional lower-division general education courses to satisfy university general education requirements.

Note: this certificate signifies completion of the IGETC general education requirements ONLY; transfer students must generally also satisfy lower-division requirements in a specific major in order to be able to transfer with junior-level status. Not all UC campuses or all majors will accept the completion of this pattern as meeting the lower division breadth requirements. It is highly recommended that all students intending to transfer consult with Counseling and Advising Services, and that they refer to the current catalog of their specific transfer university.

For requirements, see page 108 of this catalog (the reference page is the IGETC requirements page in the "Transfer" section 9.)

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 - Financial		5.0	CSU,UC
BUSA 8	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		1.0	
BUSA 81	or Work Experience in Accor	ıntina	1.0	
	•	anding		
BUSA 76	Using Microcomputers in Managerial Accounting	g	1.0	
	<u>or</u>			
BUSA 81	Work Experience in Accor	unting	1.0	
BUSO 25	Business Communication	IS	3.0	CSU
Plus the foll	owing courses:			
BUSA 21	Cost Accounting, or		4.0	
BUSA 58	Federal Income Tax Law		3.0	
BUSA 52	Intermediate Accounting		3.0	
BUSA 70	Payroll and Tax Accounting	ng	3.0	
BUSM 20	Principles of Business		3.0	CSU,UC
	Total Units	30.0 - 3	2.0	

Option BUSA 21 or BUSA 58: Take whichever course you have not previously taken.

Accounting - Computerized Accounting and Management Department Certificate 60503

The Accounting - Computerized Certificate provides the student with basic accounting skills and knowledge together with additional training in computer applications common to the accounting industry. This certificate program 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.

Requirements for the Certificate Required courses:

Completion of the Accounting - Bookkeeping Certificate (9-10 Units) as follows:

(2 10 01111	,		
BUSA 7	Principles of Accounting - Financial	5.0	CSU,UC
	<u>or</u>		
BUSA 72	Bookkeeping - Accounting	5.0	
BUSA 53	Ten-Key Calculations	2.0	
	<u>or</u>		
BUSA 81	Work Experience in Accounting	1.0	
BUSO 5	Business English	3.0	
	<u>or</u>		
BUSO 25	Business Communications	3.0	CSU
Plus the fo	llowing courses:		
BUSA 75	Using Microcomputers	1.0	
	in Financial Accounting		
	<u>or</u>		
BUSA 81	Work Experience in Accounting	1.0	
BUSA 76	Using Microcomputers	1.0	
	in Managerial Accounting		
	<u>or</u>		
BUSA 81	Work Experience in Accounting	1.0	
CISB 15	Microcomputer Applications	4.0	CSU,UC
PLUS			
Select 3.5	Units from:		
BUSA 81	Work Experience in Accounting	1.0	

	Total Units 18.	5 - 19.5	
COMP 20	Microsoft Word	4.0	
COMP 11	Internet Research for Busines	s 2.0	CSU
CISW 11	Introduction to Internet Technologies	4.0	CSU
CISB 21	Microsoft Excel	4.0	
CISB 13	Microsoft Windows	2.0	CSU
CISB 11	Computer Information System	ns 3.5	CSU,UC
BUSA 81	Work Experience in Accounting	ng 1.0	
Select 3.5 C	Select 3.5 Units from:		

Accounting - Financial Planning Accounting and Management Department Certificate 60509

The Accounting - 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	1.0	
	<u>or</u>		
BUSA 81	Work Experience in Accounting	1.0	
BUSA 76	Using Microcomputers in Managerial Accounting	1.0	
	<u>or</u>		
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 Accounting - Managerial Accounting Certificate provides basic accounting skills and knowledge concentrating in the area of managerial accounting. This prepare teh student for entry-level 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.

nequireaco	urses.		
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	1.0	
	<u>or</u>		
BUSA 81	Work Experience in Accounting	1.0	
BUSA 76	Using Microcomputers in Managerial Accounting	1.0	
	<u>or</u>		
BUSA 81	Work Experience in Accounting	1.0	
BUSO 25	Business Communications	3.0	CSU
	Total Units	19.0	

Administrative Assistant - Level II Office Technology Department Certificate 60514

The Level II Certificate prepares students for clerical positions where office organization and transcription skills are needed.

Requirements for the Certificate Required courses:

Completion of the Administrative Support - Level I course work (10.5 - 11 units) as follows:

work (10.5	- 11 units) as follows:		
BUSO 5	Business English	3.0	
COMP 1	Computer Keyboarding	4.0	CSU
	<u>or</u>		
COMP 1A	Computer Keyboarding	2.0	CSU
	<u>and</u>		
COMP 1B	Computer Keyboarding	2.0	CSU
COMP 12	Office Computer Applications	4.0	CSU,UC
	<u>or</u>		
CISB 15	Microcomputer Applications	4.0	CSU,UC
COMP 28	Office Management Skills	3.0	
Plus the fol	lowing courses:		
Level II as f	ollows:		
BUSO 25	Business Communications	3.0	CSU

BUSO 25	Business Communications	3.0	CS
COMP 2	Intermediate Computer	4.0	
	Keyboarding		
COMP 20	Word for the Business	4.0	
	Professional		
COMP 68	Transcription Techniques	3.0	

Total Units 28.0

Administrative Assistant - Level III Office Technology Department Certificate 60517

The Level III Certificate prepares students for administrative assistant positions where a variety of skills are needed.

Requirements for the Certificate *Required courses:*

Completion of the Administrative Assistant - Level I course work (14 units) as follows:

BUSO 5	Business English	3.0
COMP 1	Computer Keyboarding	4.0 CSU
	<u>or</u>	
COMP 1A	Computer Keyboarding	2.0 CSU
	<u>and</u>	
COMP 1B	Computer Keyboarding	2.0 CSU

	Total Units	43.5 - 4	6.5	
COMP 50	Desktop Presentations Using PowerPoint		4.0	CSU
COIII 130	<u>or</u>		1.0	
COMP 150	Using Desktop Publishin Basic PowerPoint	iy sullwar	e 1.0	
COMP 60	Business Publications		4.0	CSU
COMP 13	Using Web Page Softwa			CSU
COMP 11	Internet Research for Bu	5111655		CSU
BUSO 96A	Business Vocabulary		1.5	
BUSO 26	Oral Communications for Business		3.0	
Level III as	follows:			
Plus the fol	llowing courses:			
COMP 68	Transcription Technique	S	3.0	
COMP 20	Word for the Business Professional		4.0	
COMP 2	Intermediate Computer Keyboarding		4.0	
BUSO 25		ns	3.0	CSU
	k (14 units) as follows:			
Completion	of the Administrative A	ssistant -	Leve	el II
Required co	ourses:			
COMP 28	Office Management Skil	ls	3.0	
CISB 15	<u>or</u> Microcomputer Applicat	ions	4.0	CSU,U
COMP 12	Office Computer Applica	tions	4.0	CSU,U

Air Conditioning and Refrigeration Air Conditioning, Water & Welding Technologies Certificate 60909

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 Required courses:

AIRC 10	Technical Mathematics	2.0
	in Air Conditioning and Refrige	ration
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

JC	AIRC 25	Electrical Fundamentals for Air Conditioning and Refrige	4.0 ration
JC	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 Refrige	4.0 ration
	AIRC 32A	Air Properties and Measuremen	
	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 Tech & Manufacturing Dept.
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 *Required courses:*

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	

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

Aircraft Powerplant Maintenance Technology - Evening

Aircraft Maintenance Tech & Manufacturing Dept.
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 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:

	Total Units 3	9.0
AIRM 98B	Aircraft Powerplant Maintenance Technology	3.0
AIRM 98A	Aircraft Powerplant Maintenance Technology	3.0
AIRM 97B	Aircraft Powerplant Maintenance Technology	3.0
AIRM 97A	Aircraft Powerplant Maintenance Technology	3.0
AIRM 96B	Aircraft Powerplant Maintenance Technology	3.0
AIRM 96A	Aircraft Powerplant Maintenance Technology	3.0
AIRM 95B	Aircraft Powerplant Maintenance Technology	3.0
AIRM 95A	Aircraft Powerplant Maintenance Technology	3.0
AIRM 73	Aviation Welding	1.5
AIRM 72	Aviation Materials and Processes	1.5
AIRM 71	Aviation Maintenance Science	6.0
AIRM 70B	Aircraft Maintenance Electricity and Electronics	3.0
AIRM 70A	Aircraft Maintenance Electricity and Electronics	3.0

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 Maintenance Technology - Day

Aircraft Maintenance Tech & Manufacturing Dept.
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:

Required co	urses:			
AIRM 66A	Airframe Maintenance	12.0	CSU	
AIDMACCD	Technology	12.0		
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	1.5		
AIRM 73	Aviation Welding	1.5		
	Total Units	39.0		
Recommended Electives:				
AIRM 74	Aircraft Maintenance Technology	/		

- Work Experience

Lab Studies in Aircraft
Maintenance Technology

Lab Studies in Aircraft
Maintenance Technology

AIRM 80

AIRM 81

EDT 12	Technical Engineering Drawing II
ELEC 90	Survey of Electronics
MFG 70	Technical Mathematics - Manufacturing Applications
PHYS 1	Physics

Airframe Maintenance Technology - Evening

Aircraft Maintenance Tech & Manufacturing Dept.
Certificate 60951

to hold a valid A & P Certificate.

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

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:*

	kequirea co	urses:	
	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
П			

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

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

Alcohol/Drug Counseling

Public Services Department Certificate 62101

Upon completion of the required courses with a grade of "C" or better, a Certificate in Alcohol/Drug Studies will be awarded by the Technology and Health Division.

AD 1	Alcohol/Drug Dependency	3.0	CSU
AD 2	Physiological Effects of Alcohol/Drugs	3.0	CSU
AD 3	Chemical Dependency:	3.0	CSU
AD 3	Intervention, Treatment and Reco	٠.٠	(30
AD 4	Issues in Domestic Violence	3.0	
AD 5	Chemical Dependency:	1.5	CSU
	Prevention and Education		
AD 6	Dual Diagnosis	3.0	CSU
Required sk	ill courses:		
AD 8	Group Process and Leadership	3.0	
AD 9	Family Counseling	3.0	
AD 10	Client Record and Documentation	1.5	
AD 11	Techniques of Intervention and Referral	3.0	

Required field work courses: 3.5 CSU AD 13 Internship/Seminar AD 14 Advanced Internship/Seminar 3.5 CSU PLUS Select two (2) courses from: CHLD 10 Child Growth and Development 3.0 CSU,UC CHLD 10H Child Growth and Development 3.0 CSU.UC - Honors <u>or</u> SOC 1 Sociology 3.0 CSU,UC PSYC 1A Introduction to Psychology 3.0 CSU,UC PSYC 19 Abnormal Psychology 3.0 CSU,UC SOC 14 Marriage and the Family 3.0 CSU,UC SOC 15 Child Development 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.

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 decisions/actions related to end of life issues
- 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.

Animation - Digital 2-Dimensional Commercial and Entertainment Arts 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:

	Total Units 33.0 -	34.5	
ARTD 17A	Drawing: Life	3.0	CSU,UC
ARTC 74	Computer Graphics: Web Design	3.0	CSU
ARTC 70	Computer Graphics: Introduction	n 3.0	CSU
ANIM 175	Web Animation With Flash	3.0	
ANIM 172	Motion Graphics With After Effect	ts 3.0	
ANIM 120	Script Development for Animatio	n 3.0	
ARTC 66	Portfolio	3.0	
	<u>or</u>		
ANIM 119	Portfolio	1.5	
ANIM 116	Character Development	1.5	
ANIM 115	Storyboarding	3.0	
ANIM 108	Principles of Animation	3.0	CSU
ANIM 104	Drawing Fundamentals	3.0	CSU
ANIM 101	Drawing - Gesture and Figure	3.0	CSU

Recommended Electives:

recommi	ellueu Electives.
ANIM 107	Figure in Motion
ANIM 109	Advanced Principles of Animation
ANIM 130	Introduction to 3-D Computer Animation
ANIM 137A	Work Experience in New Digital Media
	<u>or</u>
ANIM 137B	Work Experience in New Digital Media
	<u>or</u>
ANIM 137C	Work Experience in New Digital Media
ANIM 148	Demo-Reel
ARTD 16	Drawing: Perspective
ARTD 20	Design:Two Dimensional
PHOT 10	Beginning Photography

Animation - Digital 3-Dimensional Commercial and Entertainment Arts 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 Required courses: ANIM 101 Drawing - Gesture and Figure

	and delegations		
	Total Units	39.0	
ARTD 17A	Drawing: Life	3.0	CSU,UC
ARTC 70	Computer Graphics: Introduction	3.0	CSU
ANIM 148	Demo-Reel	1.5	
ANIM 146	3-D Animation	3.0	
ANIM 145	Advanced 3-D Modeling	3.0	
ANIM 136	Animation Environment Layout	3.0	
ANIM 135	Visual Effects II: Particle Systems	1.5	
ANIM 134	Visual Effects I: Dynamics	1.5	
ANIM 132	Modeling, Texture Mapping and Lighting	3.0	
	Animation		
ANIM 130	Introduction to 3-D Computer	3.0	
ANIM 116	Character Development	1.5	
ANIM 115	Storyboarding	3.0	
ANIM 108	Principles of Animation	3.0	CSU
ANIM 104	Drawing Fundamentals	3.0	CSU
ANIM 101	Drawing - Gesture and Figure	3.0	CSU

Recommended Electives:

ANIM 107	Figure in Motion
ANIM 109	Advanced Principles of Animation
ANIM 119	Portfolio
	<u>or</u>
ARTC 66	Portfolio
ANIM 120	Script Development for Animation
ANIM 137A	Work Experience in New Digital Media
	<u>or</u>
ANIM 137B	Work Experience in New Digital Media
	<u>or</u>
ANIM 137C	Work Experience in New Digital Media

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 Commercial and Entertainment Arts 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 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.

	Total Units 39.0 - 4	0.5	
ARTD 23A	Drawing: Head and Hands	1.5	CSU,UC
ARTD 17A	Drawing: Life	3.0	CSU,UC
ARTD 16	Drawing: Perspective	3.0	CSU,UC
ARTC 70	Computer Graphics: Introduction	3.0	CSU
ANIM 175	Web Animation With Flash	3.0	
ANIM 120	Script Development for Animation	3.0	
ARTC 66	Portfolio	3.0	
	<u>or</u>		
ANIM 119	Portfolio	1.5	
ARTC 165	Illustration	3.0	CSU
7.11.11.17	or	3.0	250
ANIM 117	Animation Background Layout	3.0	CSU
ANIM 116	Character Development	1.5	
ANIM 115	Storyboarding	3.0	
ANIM 111	Animal Drawing	1.5	
ANIM 109	Advanced Principles of Animation	3.0	
ANIM 108	Principles of Animation	3.0	CSU
ANIM 104	Drawing Fundamentals	3.0	CSU
ANIM 101	Drawing - Gesture and Figure	3.0	CSU

PHOT 8

Recommended Electives:

ANIM 107	Figure in Motion
ANIM 130	Introduction to 3-D Computer Animation
ANIM 137A	Work Experience in New Digital Media
	<u>or</u>
ANIM 137B	Work Experience in New Digital Media
	<u>or</u>
ANIM 137C	Work Experience in New Digital Media
ARTD 17B	Drawing: Life
ARTD 20	Design: Two Dimensional
ARTS 22	Design:Three-Dimensional
ARTS 41A	Sculpture: Life

Architectural Technology - Level I Architecture and Engineering Design Department Certificate 60201

Digital Photography

This multi-level certificate program prepares students to enter the field of architecture and related areas. The student is provided with an option of direct employment in the field or preparation or transfer to the professional school of architecture. The Level I certificate provides a broad overview of the fundamental skills essential to the field, suitable for entry-level employment as an office assistant.

Requirements for the Certificate *Required courses:*

Design I - Elements of Design	3.0	CSU
Architectural Drawing	3.0	CSU,UC
Architectural Materials and Specifications	3.0	CSU
Basic CAD and Computer Application	4.0	CSU,UC
	Architectural Drawing Architectural Materials and Specifications Basic CAD and Computer	Architectural Drawing 3.0 Architectural Materials 3.0 and Specifications Basic CAD and Computer 4.0

Plus the following courses:

	Total Units	21 0
MATH 51	Elementary Algebra	4.0
ENGL 68	Preparation for College Writing	4.0

Architectural Technology

- Technology Concentration Level II

Architecture and Engineering Design Department Certificate 60203

This Level II Technology Concentration Certificate focuses upon the preparation of architectural construction documents, with emphasis on computer-aided design (CAD) applications. Regulatory requirements and an overview of construction practices are also included. The student will prepare a portfolio of CAD documentation, including 2-D and 3-D projections. The Level II Technology Concentration Certificate prepares students for employment as a beginning CAD draftsman or production specialist.

Requirements for the Certificate Required courses:

Completion of the Architectural Technology Level I course work (21) units.

3.0

Building and Zoning Codes

PLUS ARCH 14

	Total Units	43.0	
PHYS 2AG	General Physics	4.0	CSU,UC
	<u>or</u>		
PHYS 1	Physics	4.0	CSU,UC
Select one (1) course from:		
PLUS			
INSP 70	Elements of Construction	3.0	CSU
EDT 20	Technical Descriptive Geometry	3.0	CSU
ARCH 26	Architectural CAD Working Drawings	3.0	
ADCII 26	Aided Design Elements	2.0	
ARCH 18	Architectural Computer	3.0	
ARCH 15	Architectural Working Drawings - I	3.0	CSU
ADCII 15	A - - - - - - - - - - -	2.0	CCII

Architectural Technology - Technology Concentration Level III

Architecture and Engineering Design Department Certificate 60204

The Level III Technology Concentration Certificate provides additional expertise in advanced CAD applications and professional practice. The Level III Technology Concentration Certificate prepares students for employment as an intermediate CAD operator or production specialist.

Requirements for the Certificate Required courses:

Completion of the Architectural Technology Level II course work (43) units.

Building and Zoning Codes	3.0	
Architectural Working Drawings - I	3.0	CSU
Architectural Computer Aided Design Elements	3.0	
Architectural CAD Working Drawings	3.0	
Technical Descriptive Geometry	3.0	CSU
Elements of Construction	3.0	CSU
lowing courses:		
Architectural CAD 3-D Illustration and Animation	3.0	CSU
Design IV - Advanced Project	3.0	CSU
1) course from:		
Architectural Illustration	3.0	CSU,UC
Design II - Architectural Design	3.0	CSU
Architectural Presentations	3.0	CSU
World Architecture I	3.0	CSU,UC
World Architecture II	3.0	CSU,UC
	Architectural Working Drawings - I Architectural Computer Aided Design Elements Architectural CAD Working Drawings Technical Descriptive Geometry Elements of Construction Iowing courses: Architectural CAD 3-D Illustration and Animation Design IV - Advanced Project 1) course from: Architectural Illustration Design II - Architectural Design Architectural Presentations World Architecture I	Architectural Working Drawings - I Architectural Computer Aided Design Elements Architectural CAD Working Drawings Technical Descriptive Geometry Elements of Construction Iowing courses: Architectural CAD 3-D Illustration and Animation Design IV - Advanced Project Architectural Illustration Design II - Architectural Design Architectural Presentations World Architecture I 3.0

Total Units 50.0 - 52.0 Architectural Technology - Design

Architectural Work Experience

Architectural Work Experience

Civil Engineering Technology

Construction Estimating

1.0

2.0

3.0 CSU

3.0 CSU

Concentration Level II
Architecture and Engineering
Design Department

and CAD

Certificate 60205

ARCH 89

ARCH 90

EDT 26

INSP 71

This Level II Design Concentration Certificate focuses upon studio design, drawing, and presentation skills, including model-making, sketching and computer applications. The student will prepare a portfolio of creative design assignments. The Level II Design Concentration Certificate prepares students for employment as a design assistant or presentation specialist.

Requirements for the Certificate Required courses:

Completion of the Architectural Technology Level I course work (21) units.

PLUS

ARCH 13	Architectural Illustration	3.0	CSU,UC
ARCH 21	Design II - Architectural Design	3.0	CSU
ARCH 23	Architectural Presentations	3.0	CSU
ARCH 31	World Architecture I	3.0	CSU,UC
ARCH 32	World Architecture II	3.0	CSU
PLUS			

Select one (1) course from:

ARCH 15	Architectural Working Drawings - I	3.0 CSU
ARCH 18	<u>or</u> Architectural Computer Aided Design Elements	3.0

PLUS

Select three (3) units from:

ARTD 15A	Drawing: Beginning	3.0 CSU,UC
ARTD 20	Design: Two Dimensional	3.0 CSU,UC
ARTS 22	Design:Three-Dimensional	3.0 CSU,UC

Total Units 42.0

Architectural Technology - Design Concentration Level III

Architecture and Engineering Design Department Certificate 60206

The Level III Design Concentration Certificate provides additional expertise in portfolio development and professional practice. The Level III Design Concentration Certificate prepares students for employment as an intermediate design assistant or presentation specialist.

Requirements for the Certificate

Required courses:

Completion of the Architectural Technology Design Concentration course work (42) units.

Plus the following courses:

ARCH 27	Design III - Environmental Design	gn 3.0	CSU,UC
ARCH 29	Design IV - Advanced Project	3.0	CSU

LUS

Select one (1) course from:

ARCH 14	Building and Zoning Codes	3.0
ARCH 15	Architectural Working	3.0 CSU
	Drawings - I	
ARCH 18	Architectural Computer Aided Design Elements	3.0

4.0 CSU,UC

4.0 CSU,UC

4.0 CSU,UC

5.0	
3.0	CSU
2.0	
1.0	
3.0	CSU
3.0	
	3.0

Business: Human Resource Management - Level II

Accounting and Management Department 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. Completion of the Business: Human Resource Management - Level I course work (9 Units).

Requirements for the Certificate Required courses:

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	
Plus the fol	lowing courses:		
Level II as fo	ollows:		
ANTH 22	General Cultural Anthropology	3.0	CSU,UC
BUSM 60	Human Relations in Business	3.0	CSU
BUSO 25	Business Communications	3.0	CSU
	•		

	Total Units	18.0
BUSO 25B	Business Communications B	1.5 CSU
	<u>and</u>	
BUSO 25A	Business Communications A	1.5 CSU
	<u>or</u>	
BUSO 25	Business Communications	3.0 CSU
DO INICOO	numan relations in business	3.0 C30

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 III

Accounting and Management Department Certificate 60535

Students completing the Level III Certificate will have knowledge and practical experience in business

communications and computer use. Successful completion 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.

Requirements for the Certificate Required courses:

D . O . ..

BUSM 20 Principles of Business

Completion of Human Resource Management - Level I and Level II course work (18 Units) as follows: Level I as follows:

ROSW 6.1		3.0	CZO
	and Management		
BUSM 62	Human Resource Management	3.0	
Required co	ourses:		
Level II as f	follows:		
ANTH 22	General Cultural Anthropology	3.0	CSU,UC
BUSM 60	Human Relations in Business	3.0	CSU
BUSO 25	Business Communications	3.0	CSU
	<u>or</u>		
BUSO 25A	Business Communications A	1.5	CSU
	<u>and</u>		
BUSO 25B	Business Communications B	1.5	CSU
Plus the fo	llowing courses:		
Level III as	follows:		
BUSA 70	Payroll and Tax Accounting	3.0	
CISB 15	Microcomputer Applications	4.0	CSU,UC

Special Information:

Total Units

Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.

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 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 emphasis on the small business perspective.

Requirements for the Certificate *Required courses:*

Completion of the Business: International - Level I course work (9 units) as follows:

ı		,		
l	BUSM 20	Principles of Business	3.0	CSU,L
	BUSM 51	Principles of International Business	3.0	CSU
l	BUSS 36	Principles of Marketing	3.0	CSU
l	Plus the fol	lowing courses:		
l	Level II as fo	ollows:		
	BUSM 61	Business Organization and Management	3.0	CSU
l	BUSM 66	Small Business Management	3.0	CSU

PLUS

3.0 CSU,UC

2 0 (CII

25.0

Select one (1) course from:

Total Units	18.0 - 19.0	
Elementary Spanish	4.0	CSU,UC
Elementary Japanese	4.0	CSU,UC
Elementary Italian	4.0	CSU,UC
Elementary German	4.0	CSU,UC
Elementary French	4.0	CSU,UC
Beginning Chinese	4.0	CSU,UC
International Marketing	g Concepts 3.0	
	Beginning Chinese Elementary French Elementary German Elementary Italian Elementary Japanese Elementary Spanish	Elementary French 4.0 Elementary German 4.0 Elementary Italian 4.0 Elementary Japanese 4.0 Elementary Spanish 4.0

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

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.

Completion of the Business: International - Level I and II course work (18 Units) as follows:

Requirements for the Certificate Required courses:

Level I as follows:

BUSM 20	Principles of Business	3.0	CSU,UC
BUSM 51	Principles of International	3.0	CSU
	Business		
BUSS 36	Principles of Marketing	3.0	CSU

Required courses: Level II as follows: BUSM 61 **Business Organization** 3.0 CSU and Management BUSM 66 Small Business Management 3.0 CSU PLUS *Select one (1) course from:* BUSS 70 International Marketing Concepts 3.0 CHIN 1 Beginning Chinese 4.0 CSU,UC FRCH 1 Elementary French 4.0 CSU,UC GERM 1 **Elementary German** 4.0 CSU,UC

Elementary Italian

Elementary Japanese

Elementary Spanish

SPAN 1 PLUS

ITAL 1

JAPN 1

Additional required courses:

Level III as follows:

	and Importing			
BUSM 52	Principles of Exporting	3.0)	CSU
ANTH 22	<u>or</u> General Cultural Anthropolo	gy 3.0)	CSU,U
BUSL 20 BUSM 50	International Business Law World Culture: A Business Perspective	3.0 3.0		CSU

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 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.

Requirements for the Certificate Required courses:

Completion of Business: Management Level I course work (9 units) as follows:

course worr	(7 uiiits) us iviivws.		
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
Plus the fol	lowing courses:		
Level II as fo	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

Special Information:

Total Units

Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.

19.0

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 *Required courses:*

Completion of the Business: Management - Level I and Level II course work (18.5 Units) as follows:

Level I as follows:

BUSM 20	Principles of Business	3.0	CSU,U			
BUSM 61	Business Organization and Management	3.0	CSU			
BUSS 36	Principles of Marketing	3.0	CSU			
Required co	Required courses:					
Level II as f	Level II as follows:					
BUSM 60	Human Relations in Business	3.0	CSU			
BUSM 62	Human Resource Management	3.0				
CISB 15	Microcomputer Applications	4.0	CSU,U			

Plus the following courses:					
Level III as follows:					
BUSA 7	Principles of Accounting - Financial	5.0	CSU,U		
BUSM 10	Principles of Continuous Quality Improvement	3.0			
BUSM 51	Principles of International Business	3.0	CSU		

Special Information:

Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.

30.0

Business: Retail Management - Level II

Total Units

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.

Requirements for the Certificate Required courses:

Completion of the Retail Management - Level I course work (9.5 Units) as follows:

BUSO 25	Business Communications	3.0	CSU
BUSS 50	Retail Store Management and Merchandising	3.0	
	<u>or</u>		
FASH 62	Retail Store Management and Merchandising	3.0	CSU
CISB 15	Microcomputer Applications	4.0	CSU,UC

Plus the following courses: Level II as follows:

	Total Units	22.0	
BUSS 36	Principles of Marketing	3.0	CSU
BUSM 62	Human Resource Management	3.0	
	and Management		
BUSM 61	Business Organization	3.0	CSU
BUSA 11	Fundamentals of Accounting	3.0	
	••		

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 III

Accounting and Management Department Certificate 60521

Introductory statement: 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 Required courses:

Completion of the Retail Management - Level I course work (9.5 Units) as follows:

Required co	ourses:		
CISB 15	Microcomputer Applications	4.0	CSU,UC
FASH 62	or Retail Store Management and Merchandising	3.0	CSU
BUSS 50	Retail Store Management and Merchandising	3.0	
B020 52	Business Communications	3.0	CZU

Completion of the Retail Management - Level II course work (21.5 Units) 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
Plus the fo	llowing courses:		
Level III as	follows:		
BUSA 7	Principles of Accounting - Financial	5.0	CSU,U

BUSM 60 Human Relations in Business 3.0 CSU BUSO 26 Oral Communications for Business 3.0

Special Information:

Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.

33.0

Business: Small Business Management - Level II

Total Units

Accounting and Management Department 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
business arena.

Requirements for the Certificate Required courses:

Completion of Business: Small Business Management -Level I course work (9 Units) as follows:

	llowing courses:		
BUSS 36	Principles of Marketing	3.0	CSU
BUSM 66	Small Business Management	3.0	CSU
BUSM 20	Principles of Business	3.0	CSU,U

Level II as follows:

BUSM 60 BUSM 61	Human Relations in Business Business Organization	5.0	CSU CSU
	and Management		
BUSM 62	Human Resource Management	3.0	
	Total Units	18.0	

Special Information:

Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.

Business: Small Business Management - Level III

Accounting and Management Department Certificate 60530

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 ever-

changing 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.

Requirements for the Certificate Required courses:

Completion of Business: Small Business Management Level I and II course work (18.5 Units) as follows:

	Total Units	30.0			
CISB 15	Microcomputer Applications	4.0	CSU,UC		
אוכטט 10	Quality Improvement	3.0			
BUSM 10	- Financial Principles of Continuous	3.0			
BUSA 7	Principles of Accounting	5.0	CSU,UC		
Level III as f	follows:				
Plus the foll	lowing courses:				
BUSM 62	Human Resource Management	3.0			
ו 0 ואוכטט	and Management	3.0	CJU		
BUSM 61	Business Organization	3.0			
BUSM 60	Human Relations in Business	3.0	CSU		
Required co					
BUSS 36	Principles of Marketing	3.0	CSU		
BUSM 66	Small Business Management	3.0	CSU		
BUSM 20	Principles of Business	3.0	CSU,UC		
Level I alia II Course work (10.5 offics) as follows:					

Special Information:

Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.

Children's Program Certificate: Administration Child Development 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

Required courses:

Completion of the Children's Program Certificate: General as follows:

CHLD 1	Child, Family and Community	3.0	CSU,UC
CHLD 5	Principles/Practices	3.0	CSU

CILID	in Child Development Programs	2.0	ccu
CHLD 6	Survey of Child Development Curriculum	3.0	CSU
CHLD 10	Child Growth and Development or	3.0	CSU,l
CHLD 10H	Child Growth and Development - Honors	3.0	CSU,l
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	e (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	

PLUS

CHLD 75

Select four (4) units from:

Note: Your four (4) unit selection should not include any course you have previously taken.

Supervising Adults in Early

Childhood Settings

2.0

course you have previously taken.				
BUSM 66	Small Business Management	3.0	CSU	
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 II

Child Development Certificate 61328

This certificate enhances the student's knowledge beyond Level I, providing additional skills in working with your children.

Requirements for the Certificate Required courses:

Completion of the Children's Program work: General - Level I, as follows:

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 or	3.0	CSU,UC		
CHLD 10H	Child Growth and Development - Honors	3.0	CSU,UC		
Dius the following sources:					

Plus the following courses: Level II as follows:

gs
1.0
eds 3.0 CSU
ion 3.0

Children's Program Certificate: General - Level III

Child Development Certificate 61327

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 course work:

General - Level I, as follows:				
CHLD 1	Child, Family and Community	3.0	CSU,UC	
CHLD 5	Principles/Practices	3.0	CSU	
	in Child Development Programs			
CHLD 6	Survey of Child	3.0	CSU	
	Development Curriculum			
CHLD 10	Child Growth and Development	3.0	CSU,UC	
	<u>or</u>			

CHLD 10H	Child Growth and Development - Honors	3.0	CSU,UC
Plus the fol	lowing courses:		
Level II as f	ollows:		
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	
PLUS			
Select three	(3) courses from:		
Level III as i	follows:		
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 63	Creative Sciencing and Math for Young Children	3.0	
CHLD 73	Infant/Toddler Care and Development	3.0	CSU
	Total Units	28.0	

Children's Program Certificate: Small Business Management Child Development Certificate 61311

The Children's Programs Small Business Management Certificate provides information for operating or owning a preschool.

Requirements for the Certificate Required courses:

Required co	urses:		
BUSM 60	Human Relations in Business	3.0	CSU
BUSM 66	Small Business Management	3.0	CSU
BUSO 5	Business English	3.0	
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 or	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 71A	Administration of Child	3.0	CSU

Development Programs

CHLD 71B	Management/Marketing/ Personnel for ECD Programs	3.0
FCS 41	Life Management	3.0 CSU
	Total Units	33.0
Recomm	ended Electives:	
BUSA 70	Payroll and Tax Accounting	
	<u>or</u>	
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 Ma	nagement
BUSO 25	Business Communications	
BUSS 33	Advertising and Promotion	
BUSS 36	Principles of Marketing	
CISB 11	Computer Information System	IS

Children's Program Certificate: Teaching

Child Development Certificate 61312

The Children's Program Certificate: 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:

kequirea courses:				
CHLD 1	Child, Family and Community	3.0	CSU,UC	
CHLD 5	Principles/Practices	3.0	CSU	
	in Child Development Programs			
CHLD 6	Survey of Child	3.0	CSU	
	Development Curriculum			
CHLD 10	Child Growth and Development	3.0	CSU,UC	
	<u>or</u>			
CHLD 10H	Child Growth and Development	3.0	CSU,UC	
	- Honors			
CHLD 64	Health, Safety and Nutrition	3.0		
	of Young Children			
CHLD 68	Children With Special Needs	3.0	CSU	
CHLD 84	Guidance and Discipline	1.0		
	in Child Development Settings			
Plus the foll	lowing courses:			
CHLD 50	Multicultural Education:	3.0		

tate			
CHLD 66	Anti-Bias Perspective Early Childhood Development	2.0	CSU
CHLD 66L	Observation 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	

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 Prepara	tion 3.	0		
ELEC 11	Technical Applications				
	in Microcomputers	3.	O CSU		
	<u>or</u>				
CISB 15	Microcomputer Applicati	ons 4.	o CSU,	UC	
ELEC 50A	Electronic Circuits (DC)	4.	O CSU		
ELEC 50B	Electronic Circuits (AC)	4.	O CSU		
ELEC 56	Digital Electronics	4.	O CSU		
	Total Units	30.0 - 31.	0		

Computer and Networking Technology - Level II

Electronics and Computer Technology Department Certificate 60726

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, 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 is preprea5rd 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 course work, 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 Microcomputers	3.0 CSU

	Total Units	44.0 - 45.0	
TECH 60	Customer Relations for the Technician	1.0	
CNET 66	Security + Certification Preparation	3.0	
CNET 64	Server + Certification Preparation	3.0	
CNET 62	Network+ Certification Preparation	3.0	
CNET 56	Computer Networks	4.0	
Level II as fo	ollows:		
Plus the fol	lowing courses:		
ELEC 56	Digital Electronics	4.0	CSU
ELEC 50B	Electronic Circuits (AC)	4.0	CSU
ELEC 50A	Electronic Circuits (DC)	4.0	CSU
CISB 15	Microcomputer Applicat	ions 4.0	CSU,UC
	<u>or</u>		

Recommended Electives:

ELEC 51	Electronic Devices
ELEC 74	Microprocessor Systems
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

Commercial and Entertainment Arts 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.

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

Report Writing

	Total Units	24.0	
PHOT 17	Photocommunication	3.0	
PHOT 10	Beginning Photography	3.0	CSU,UC
GRAP 28	Digital Portfolio	2.0	
GRAP 20	Applying Photos and Images in Multimedia	3.0	

Recommended Electives:

	Cilded Electives.
AHIS 1	Understanding the Visual Arts
	<u>or</u>
ARTB 1	Understanding the Visual Arts
COMP 10	Operating the Macintosh Computer
GRAP 18	Advanced Image Design - 3D Modeling Techniques
GRAP 24	Work Experience in Computer Graphics
PHOT 1	Laboratory Studies: Black and White Photography
PHOT 2	Laboratory Studies: Color Photography
PHOT 4	Digital Cameras and Composition

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.

Requirements for the Certificate *Required courses:*

nequireaco	uises.		
ELEC 11	Technical Applications in Microcomputers	3.0	CSU
ELEC 12	Computer Simulation and Troubleshooting	2.0	
ELEC 50A	Electronic Circuits (DC)	4.0	CSU
ELEC 50B	Electronic Circuits (AC)	4.0	CSU
ELEC 51	Electronic Devices	4.0	CSU
ELEC 56	Digital Electronics	4.0	CSU

Total Units	28.0	
Customer Relations for the Technician	1.0	
Microprocessor Systems	4.0 CSU	
Electronic Assembly and Fabrication	2.0 CSU	
	and Fabrication Microprocessor Systems Customer Relations	and Fabrication 2.0 CSU Microprocessor Systems 4.0 CSU Customer Relations 1.0 for the Technician

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:

Dagaman	anded Fleethree.		
	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 TT	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:

BUSL 18	Business Law, or	3	3.0	CSU,UC
BUSL 18H	Business Law - Honors	3	3.0	CSU,UC
BUSM 60	Human Relations in Busi	ness 3	3.0	CSU
FCS 41	Life Management	3	3.0	CSU
FCS 80	Financial Planning	3	3.0	CSU
	<u>or</u>			
BUSA 71	Financial Planning	3	3.0	CSU
FCS 91	Work Experience in Fami and Consumer Sciences	ly 1	1.0	
	<u>or</u>			
BUSL 36	Paralegal Internship	1	1.0	
PLUS				
Select two ((2) courses from:			
BUSO 5	Business English	3	3.0	
BUSO 25	Business Communication	ns 3	3.0	CSU
COMP 12	Office Computer Applica	tions 4	1.0	CSU,UC
	<u>or</u>			
CISB 15	Microcomputer Applicati	ions 4	1.0	CSU,UC
	Total Units	19.0 - 20	0.0	

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 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 Certificate Required courses:

ADJU 68 Administration of Justice 3.0

	Report Writing		
CORS 10	Introduction to Correctional		CSU
	Sciences	3.0	
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	r (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	
Recomn	nended Electives:		
PE-F 50	Physical Skills Preparation for Law Enforcement and Fire S	cionco	
PE-F 51	Agility Testing Preparation	cience	
	for Law Enforcement and Fire S	cience	
PE-F 52	Fitness and Conditioning for La	w Enfo	rcement,
	Fire Science and Forestry		
SPAN 66	Spanish for Fire and Police Person	onnel	

CSU General Education Counseling and Guidance Department Certificate 60100

Completion of coursework for this certificate is intended for students who are planning to ransfer to one of the campuses of the California University system. In most instances, completion for this certificate will assist students in transferring without the need to take additional lower-division general education courses to satisfy university general education requirements. Note: This certificate signifies compleiton of the CSU general education requirements ONLY; transfer students must generally also satisfy lower- division requirements in a specific major in order to be able to transfer with junior-level status. It is highly recommended that all stuents intending to transfer consult with Counseling and Advising Services, and that they refer to the current catalog of their specific transfer university. For requirements, see page 104 of this catalog.

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 Required courses:

Jui ses.		
Computer Information Systems	3.5	CSU,UC
Database Management - Microcomputers	4.0	CSU
Advanced Database Management - Microcomputers	4.0	
Database Management	4.0	
Oracle Forms and Reports	4.0	
Database Design	2.0	
Web Based Applications With PL/SQL	4.0	CSU
Systems Analysis and Design	3.5	CSU,UC
Computer Information Systems Seminar	4.0	
Client/Server Architecture	4.0	
Total Units	37.0	
	Database Management - Microcomputers Advanced Database Management - Microcomputers Database Management Oracle Forms and Reports Database Design Web Based Applications With PL/SQL Systems Analysis and Design Computer Information Systems Seminar Client/Server Architecture	Computer Information Systems 3.5 Database Management 4.0 - Microcomputers Advanced Database 4.0 Management - Microcomputers Database Management 4.0 Oracle Forms and Reports 2.0 Web Based Applications 4.0 With PL/SQL Systems Analysis and Design 3.5 Computer Information 4.0 Systems Seminar Client/Server Architecture 4.0

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 course work (13 units) as follows:

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	

Plus the following courses: Level II as follows: CHLD 68 Children With Special Needs 3.0 CSU EDUC 16 Aspects and Issues 3.0 CSU,UC in Teaching Service Learning ENGL 1A Freshman Composition 3.0 CSU,UC MATH 71 Intermediate Algebra 5.0 Developmental Psychology, or 3.0 CSU,UC

Total Units

PSYC 14

CHLD 10

30.0

Child Growth and Development 3.0 CSU,UC

Recommended Electives: Early Literacy in Child Development CHLD 51 CHLD 64 Health, Safety and Nutrition of Young Children LIT 40 Children's Literature PF 3 First Aid and CPR

Electronic Systems Technology - Level II

Electronics and Computer Technology Department Certificate 60928

The Level II certification (12-13 units) adds customer relations skills and the installtion, 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 Reauired courses:

ELEC 11	Technical Applications in Microcomputers	3.0	CSU
	<u>or</u>		
CISB 15	Microcomputer Applications	4.0	CSU,UC
EST 50	Electrical Fundamentals for Cable Installations	4.0	
EST 52	Fabrication Techniques for Cable Installations	4.0	
EST 54	Cabling and Wiring Standards	4.0	
Plus the fol	lowing courses:		
EST 56	Home Theater,	4.0	
	Home Integration, & Home Securi	ity Sy	stems
EST 62	Electronic Troubleshooting - I	4.0	
TECH 60	Customer Relations for the Technician	1.0	

PLUS Select one (1) course from:

EST 64 Electronic Troubleshooting - II 4.0 EST 70 C-7 Low Voltage Systems 2.0 License Preparation

26.0 - 29.0

Recommended Electives:

Total Units

ELEC 61 **Electronic Assembly and Fabrication** ELEC 62 **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 electronic and computer engineering technology or industrial technilogy programs at various institutions in the CSU system. Many of the courses directly articulate to courses offered at the CSUs. The certificate prepares students for the following positions: field service technician, field engineer, computer service technician, 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	Electronic Circuits (DC)	4.0	CSU
ELEC 50B	Electronic Circuits (AC)	4.0	CSU

ELEC 51	Electronic Devices		CSU
ELEC 53	Communications Circuits	4.0	
ELEC 54A	Industrial Electronics	4.0	CSU
ELEC 54B	Industrial Electronic Systems	3.0	CSU
ELEC 55	Microwave Communications	4.0	
ELEC 56	Digital Electronics	4.0	CSU
ELEC 61	Electronic Assembly and Fabrication	2.0	CSU
ELEC 74	Microprocessor Systems	4.0	CSU
TECH 60	Customer Relations for the Technician	1.0	
	Total Units	43.0	

Recommended Electives:

CISP 11	Programming in Visual Basic
EDT 11	Technical Engineering Drawing I
ELEC 62	Advanced Surface Mount Assembly
	and Rework
ELEC 76	Radio Telephone Communications
PHYS 2AG	General Physics

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 twoyear 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.

Requirements for the Certificate Required courses:

ELEC 11 **Technical Applications** 3.0 CSU in Microcomputers

	Total Units 3	2.0	
TECH 60	Customer Relations for the Techni	ician	1.0
ELEC 61	Electronic Assembly and Fabricati CSU	ion	2.0
ELEC 56	Digital Electronics	4.0	CSU
ELEC 55	Microwave Communications	4.0	
ELEC 53	Communications Circuits	4.0	
ELEC 51	Electronic Devices	4.0	CSU
ELEC 50B	Electronic Circuits (AC)	4.0	CSU
ELEC 50A	Electronic Circuits (DC)	4.0	CSU
ELEC 12	Computer Simulation and Troubleshooting	2.0	

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 entry-level employment as an electronic technician and include customer relations training.

Requirements for the Certificate Required courses:

ELEC 11	Technical Applications in Microcomputers	3.0	CSU
ELEC 50A	Electronic Circuits (DC)	4.0	CSU
ELEC 50B	Electronic Circuits (AC)	4.0	CSU
ELEC 51	Electronic Devices	4.0	CSU
ELEC 56	Digital Electronics	4.0	CSU
ELEC 61	Electronic Assembly	2.0	CSU
	and Fabrication	2.0	CSU
TECH 60	Customer Relations	1.0	
	for the Technician		
	Total Units	22.0	

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 Required courses:

ELEC 11	Technical Applications in Microcomputers	3.0	CSU
ELEC 12	Computer Simulation and Troubleshooting	2.0	
ELEC 50A	Electronic Circuits (DC)	4.0	CSU
ELEC 50B	Electronic Circuits (AC)	4.0	CSU
ELEC 51	Electronic Devices	4.0	CSU
ELEC 54A	Industrial Electronics	4.0	CSU
ELEC 54B	Industrial Electronic Systems	3.0	CSU
ELEC 56	Digital Electronics	4.0	CSU
ELEC 61	Electronic Assembly and Fabrication	2.0	CSU
TECH 60	Customer Relations for the Technician	1.0	
	Total Units	31.0	

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.

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:

Necomin	necommended Liectives.		
ADJU 1	The Administration of Justice System		
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 given a certificate documenting completion of the Emergency Medical Technician - Paramedic (EMT-P) program. Students are then eligible for licensure by taking and passing both the National Registry Exam and County Paramedic accreditation exam.

Application Requirements and Selection Procedures

Application Requirements:

In addition to meeting the Mt. San Antonio College's 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 2 years.
- 3) 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 Health Science Programs Office (909) 594-5611, Ext. 4750. All applications are dated upon receipt in the Health Science Programs Office. The Paramedic Program begins three (3) 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 10 working days before the start 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 time to take the examination. The Assessment Center (909) 594–5611, Ext. 4265 is open Monday through Friday.
- Successful completion of EMS 1 Fundamentals for Paramedics.
- Forward two (2) official transcripts of all coursework completed (high school, EMT-I, Fire Science, and college work other than Mt. San Antonio College courses). One transcript must be sent to the Health Science Programs Office; the other to the Admissions and Records Office.

For students who possess a college degree, the English placement examination is not required. However, it will be necessary for students to obtain two (2) official copies of the college transcript showing the degree issued. One official transcript must be sent to the Health Science Programs 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.

EXAMPLE: Mt. San Antonio College Technology and Health Division 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 application requirements
- 2) EMS-related experience
- Scores on the English assessment and math placement tests
- 4) Performance in the pre-course, EMS 1— Fundamentals for Paramedics. This course tests prerequisite knowledge base in medical terminology, anatomy and physiology, EMT basic knowledge and basic math skills in preparation for drug calculations.

All Applicants are required to meet the Essential Functions for Success in the Paramedic Program: anatomy and physiology, EMT basic knowledge and basic math skills in preparation for drug calculations.

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 and carry at least 125 pounds)
- 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)
- <u>Distance vision:</u> 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
- 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 decisions/actions related to end of life issues
- Exposure 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 for others.

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		CSU	
	- Geometric Dimensioning and To	leran	cing	
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 Electronic Circuits (DC) 4.0 CSU MFG 11 Manufacturing Processes I 2.0 CSU

Total Units

19.0 - 21.0

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 I as follows:

EDT 11	Technical Engineering Dr	_	3.0	CSU
EDT 12	Technical Engineering Dr	awing II	3.0	CSU
EDT 14	Mechanical Design		3.0	
	- Geometric Dimensionin	ig and Tol	leran	cing
EDT 16	Basic CAD and Computer		4.0	CSU
	Applications			
EDT 18	Engineering CAD Applica	tions	4.0	CSU
MFG 11	Manufacturing Processes	i I	2.0	CSU
	<u>or</u>			
ELEC 50A	Electronic Circuits (DC)		4.0	CSU
Plus the foll	lowing courses:			
EDT 20	Technical Descriptive Geo	metry	3.0	CSU
EDT 24	Engineering CAD 3-D Sol	ids	3.0	CSU
	and Surfaces			
ELEC 50B	Electronic Circuits (AC)		4.0	CSU
MFG 11	Manufacturing Processes	i I	2.0	CSU
	<u>or</u>			
ELEC 50A	Electronic Circuits (DC)		4.0	CSU
	Total Units	31.0 - 3	5.0	

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	CSL
EDT 12	Technical Engineering Drawing II	3.0	CSU
EDT 14	Mechanical Design	3.0	CSL
	- Geometric Dimensioning and To	leran	cing
EDT 16	Basic CAD and Computer	4.0	CSL
	Applications		
EDT 18	Engineering CAD Applications	4.0	CSU
MFG 11	Manufacturing Processes I	2.0	CSL
	<u>or</u>		
ELEC 50A	Electronic Circuits (DC)	4.0	CSL
Required co	urses:		

Level II as follows:

	Total Units	37.0 - 4	11.0		
EDT 28	Engineering CAD 3-D Illustration/Animation		3.0	CSU	
EDT 26	Civil Engineering Technology and CAD	ology	3.0	CSU	
Plus the following courses:					
ELEC 50A	Electronic Circuits (DC)		4.0	CSU	
	or				
MFG 11	Manufacturing Processe	es I	2.0	CSU	
ELEC 50B	Electronic Circuits (AC)		4.0	CSU	
	and Surfaces				
EDT 24	Engineering CAD 3-D So	olids	3.0	CSU	
EDT 20	Technical Descriptive Ge	ometry	3.0	CSU	

Escrow Management

Business Administration Department Certificate 60511

BUSA 11	Fundamentals of Accounting	3.0	
BUSR 50	Real Estate Principles	3.0	CSU
BUSR 51	Legal Aspects of Real Estate	3.0	

BUSR 76	Escrow Procedures I	3.0	
BUSR 77	Escrow Procedures II	3.0	
CISB 15	Microcomputer Applications	4.0	CSU,UC
	Total Units	19.0	

Family Child Care Child Development

Certificate 61316

The Family Child Care Certificate provides the information necessary for operating or owning a family child care business in the home.

Requirements for the Certificate Required courses:

	Total Units	25.0	
CHLD 73	Infant/Toddler Care and Development	3.0	CSU
CIII D 72	and Child Relationships	2.0	CCII
CHLD 72	Teacher, Parent	3.0	
CHLD 66L	Early Childhood Development Observation Laboratory	1.0	CSU
CHLD 66	Early Childhood Development Observation	2.0	CSU
CIII D. CC	Anti-Bias Perspective	2.0	ccu
CHLD 50	Multicultural Education:	3.0	
	1) course from:		
PLUS			
CILDOT	in Child Development Settings	1.0	
CHLD 84	Guidance and Discipline	1.0	(30
CHLD 68	of Young Children Children With Special Needs	3.0	CSU
CHLD 64	Health, Safety and Nutrition	3.0	
Plus the fol	lowing courses:		
CHLD 92	Family Child Care	3.0	
CHLD 10H	Child Growth and Development - Honors	3.0	CSU,UC
CILD IO	or	٥.٥	C30,0C
CHLD 10	Curriculum Child Growth and Development	3.0	CSU,UC
CHLD 6	Survey of Child Development		CSU
CHLD 5	Principles/Practices in Child Development Programs	3.0	CSU
CHLD 1	Child, Family and Community	3.0	CSU,UC
CIII D 1	Child Family and Community	2.0	CCILIIC

Fashion Design - Level II

Consumer Science and Design Technologies Certificate 61309

The Fashion Design: Level II Certificate builds upon the

Level I Certificate to provide students with intermediate skills that will enhance their Fashion Design careers. Students will have a strategic view of historic costume research, and textile attributes and characteristics. Students will be exposed to additional categories and classifications of apparel and will further research and design products for divergent target markets. Students will prepare professional portfolios to strengthen career perspectives. Completion of the Fashion Design: Level II Certificate will lead to new opportunities and provide students with a solid foundation upon which to build a

Requirements for the Certificate Required courses: Level I as follows:

FASH 8	Introduction to Fashion	3.0	CSU	
FASH 10	Clothing Construction I	3.0	CSU	
FASH 12	Clothing Construction II	3.0	CSU	
FASH 15	Fashion Strategies	3.0	CSU	
FASH 20	Illustration for Fashion	3.0		
	and Costume Design			
FASH 21	Patternmaking I	3.0	CSU	
FASH 22	Fashion Design By Draping	3.0		
FASH 23	Patternmaking II	3.0		
FASH 30	Fashion Design	3.0		
	and Product Development I			
Plus the fo	Plus the following courses:			
LVCITU	History of Costumes and Fashian	2.0	CCII	

FASH 9	History of Costume and Fashion	3.0	CSU
FASH 17	Textiles	3.0	CSU,UC
FASH 31	Fashion Design and Product Development II	3.0	
FASH 32	Fashion Design and Product Development III	3.0	

39.0

Recommended Electives:

Total Units

FASH 24	Fashion Patternmaking by Computer
FASH 25	Fashion Computer-Assisted Drawing
FASH 90	Field Studies
FASH 91	Field Studies - New York
FASH 92	Field Studies - Fashion Capitals

Fashion Merchandising - Level II Consumer Science and Design Technologies Certificate 61303

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.

Completion of the Fashion Merchandising - Level I course work (15 units) as follows:

Requirements for the Certificate Required courses:

Level I as follows:

troduction to Fashion	3.0	CSU
othing Construction I	3.0	CSU
shion Strategies	3.0	CSU
xtiles	3.0	CSU,UC
shion Design	3.0	
nd Product Development I		
	othing Construction I shion Strategies xtiles shion Design	othing Construction I 3.0 shion Strategies 3.0 xtiles 3.0 shion Design 3.0

Plus the following courses:

rius the following tourses.					
Level II as i	Level II as follows:				
FASH 9	History of Costume and Fashion	3.0	CSU		
FASH 62	Retail Store Management and Merchandising,	3.0	CSU		
	<u>or</u>				
BUSS 50	Retail Store Management and Merchandising	3.0	CSU		
FASH 63	Advertising and Promotion	3.0	CSU		
	<u>or</u>				
BUSS 33	Advertising and Promotion	3.0	CSU		
FASH 66	Visual Merchandising Display	3.0	CSU		
	Total Units	27.0			

Recommended Electives:

FASH 25	Fashion Computer-Assisted Drawing
FASH 26	Fashion Computer Assisted Design
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

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:

FIKE T	Fire Protection Organization	3.0	CZU
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	
PLUS Select two ((2) courses from:		

Select two (2) courses from:					
FIRE 7	Fire Fighting Tactics and	Strategy	3.0	CSU	
FIRE 8	FIRE 8 Fire Company Organization and Management		3.0	CSU	
FIRE 9	Fire Hydraulics		3.0	CSU	
FIRE 10	Arson and Fire Investigat	tion	3.0	CSU	
FIRE 11	Fire Apparatus and Equip	ment	3.0	CSU	
FIRE 12	Wildland Fire Control		4.0	CSU	
FIRE 86	Basic Fire Academy		12.0		
PE-F 53	Physical Training		2.5	CSU	
	for the Basic Fire Academ	ny			
	Total Units	23.5 - 3	34.0		

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

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.

AGAB 20	Microcomputer Applications in Agriculture	3.0	CSU,UC
AGOR 1	Horticultural Science	3.0	CSU
AGOR 15	Interior Landscaping	3.0	
AGOR 25	Floral Design I	3.0	CSU

	Total Units	21.0	
	Management		
AGOR 32	Landscaping and Nursery	3.0	CSU
AGOR 29	Ornamental Plants - Herbaceous	3.0	CSU,UC
AGOR 26	Floral Design II	3.0	CSU

Horse Ranch Management Agricultural Sciences Department Certificate 60102

This certificate program is designed to give students basic skills on horse ranches and agriculture sales and services. All courses are applicable for degree requirements.

Requirements for the Certificate Required courses:

	Total Units	21.0 - 24.0	0	
AGLI 97	Artificial Insemination of Livestock	2.0	0	
	and Disease Control			
AGLI 96	Animal Sanitation	3.0	0	CSU
AGLI 19	Horse Hoof Care	2.0	0	CSU
AGLI 18	<u>or</u> Horse Ranch Manageme	nt 4.0	0	CSU
AGLI 16	Horse Production	4.0	0	CSU,UC
AGAN 94	Animal Breeding	3.0	-	
AGAN 2	Animal Nutrition		-	CSU
AGAG 62	Work Experience in Agric	culture 4.0	0	
	<u>or</u>			
AGAG 61	<u>or</u> Work Experience in Agric	culture 3.0	0	
AGAG 60	Work Experience in Agric	culture 2.0	0	
	<u>or</u>			
AGAG 59	Work Experience in Agric	culture 1.0	0	
AGAB 20	Microcomputer Application Agriculture	ions 3.0	0	CSU,UC
kequirea co	urses:			

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.

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 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: 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.

Requirements for the Certificate Required courses:

nequirea co	urses:		
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 II

Consumer Science and Design Technologies Certificate 61319

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	3.0	CSU
	Management		
HRM 54	Basic Cooking Techniques	3.0	CSU
HRM 57	Restaurant Cost Control	3.0	CSU

	Total Units	10 5	
NF 28	Cultural and Ethnic Foods	3.0	CSU,UC
HRM 61	Menu Planning	3.0	CSU

Infant/Toddler Development Child Development 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:

	Total Units	30.0	
CHLD 72	Teacher, Parent and Child Relationships	3.0	
CHLD 64	Health, Safety and Nutrition of Young Children	3.0	
CHLD 62	Music and Motor Development for Young Children	3.0	CSU
CHLD 61	Language Arts & Art Media for Young Children	3.0	
CHLD 50	Multicultural Education: Anti-Bias Perspective	3.0	
PLUS Select four	(4) courses from:		
CHLD 85	Infants At Risk	3.0	
CHLD 73	Infant/Toddler Care and Development	3.0	CSU
CHLD 10H	Child Growth and Development - Honors	3.0	CSU,UC
CHLD 10	Child Growth and Development or	3.0	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		CSU,UC
Kequired co	ourses:		

Interior Design - 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
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 100	Interior Design Studio I	2.0	
ID 130	Applied Color and Design Theory		
ID 150	Interior Materials and Products	4.0	
ID 130	Space Planning	3.0	
ID 170	History of Interior Architecture	3.0	CSU
10 100	& Furnishings I	5.0	CJU
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	
	<u>and</u>		
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
BUSM 66	Small Business Management
BUSS 35	Professional Selling
BUSS 50	Retail Store Management and Merchandising

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 - Design 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 Required courses:

Completion of the Interior Design Level I - Merchandising course work (25 units) as follows:

Architectural Drawing	3.0	CSU,U		
Basic CAD	4.0	CSU,U		
and Computer Application				
Professional Selling	3.0	CSU		
Fundamentals of Interior Design	3.0	CSU		
Interior Design Studio I	2.0	CSU		
Interior Design Careers	2.0	CSU		
Applied Color and Design Theory	4.0	CSU		
Interior Materials and Products	4.0	CSU		
Required courses:				
Level II as follows:				
	Basic CAD and Computer Application Professional Selling Fundamentals of Interior Design Interior Design Studio I Interior Design Careers Applied Color and Design Theory Interior Materials and Products	Basic CAD and Computer Application Professional Selling 3.0 Fundamentals of Interior Design 3.0 Interior Design Studio I 2.0 Interior Design Careers 2.0 Applied Color and Design Theory 4.0 Interior Materials and Products 4.0 Interiors:		

Level II as t	follows:		
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	1.0	
ID 240D	and	1.0	
ID 240B	Interior Design Internship	1.0	
	Total Units	50.0	

Interior Design Level II - 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 course work (25 units) as follows:

ARCH 11	Architectural Drawing	3.0	CSU,L
ARCH 16	Basic CAD and Computer Application	4.0	CSU,L
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	ourses:		

Level II as follows:

Level II us I	UIIUW3.		
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	1.0	
	<u>and</u>		
ID 240B	Interior Design Internship	1.0	
Required co			
Level III as i			
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

- Kitchens

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	
AGOR 64	Landscape Irrigation - Drip and Low Volume	3.0	
AGOR 62	Landscape Irrigation - Design and Installation	3.0	CSU
AGOR 32	Landscaping and Nursery Management	3.0	CSU
AGOR 29	Ornamental Plants - Herbaceous	3.0	CSU,U
AGOR 24	Integrated Pest Management	3.0	CSU
AGOR 15	Interior Landscaping	3.0	
AGOR 13	Landscape Design	3.0	CSU
AGOR 1	Horticultural Science	3.0	CSU

Intersegmental General Education Transfer (IGETC)

Counseling and Guidance Department Certificate 60101

Completion of coursework for this certificate is intended for students who are planning to transfer to a public four-year university within California. Most students who follow IGETC are planning to transfder to a University of California campus, but htis patern is also accepted by the California State University system. Completion of courses for this certificate will permit students to transfer without the need to take additional lower-division general education courses to satisfy university general education requirements. Note: This certificate signifies completion of the IGETC general education requirements ONLY; trnasfer students must generally also satisfy lower-division requirements in a specific major in order to be able to transfer with junior-level status. Not all UC campuses or all majors will accept the completion of this pattern as

meeting the lower division breadth requirements. It is highly recommended that all stuents intending to trnasfer consult with Counseling and Advising Services, and that they refer to the current catalog of their specific transfer university. For requirements, see page 108 of this catalog.

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.

Requirements for the Certificate Required courses:

Landscape Design and Construction Agricultural Sciences Department Certificate 60109

This certificate program is designed to give students basic skills needed in employment for a landscape contractor. All courses are applicable for degree requirements.

Requirements for the Certificate Required courses:

Horticultural Science	3.0	CSU
Landscape Design	3.0	CSU
Ornamental Plants - Herbaceous	3.0	CSU,UC
Ornamental Plants - Trees and Woody Shrubs	3.0	CSU,UC
Soil Science and Management	3.0	CSU,UC
	Landscape Design Ornamental Plants - Herbaceous Ornamental Plants - Trees and Woody Shrubs	Landscape Design 3.0 Ornamental Plants - Herbaceous 3.0 Ornamental Plants 3.0 - Trees and Woody Shrubs

AGOR 51	Tractor and Landscape Equipment Operations	3.0 CSU
AGOR 62	Landscape Irrigation - Design and Installation	3.0 CSU
AGOR 71	Landscape Construction Fundamentals	3.0 CSU
AGOR 72	Landscape Hardscape Applications	3.0 CSU
	Total Units	27.0

Landscape Equipment Technology Agricultural Sciences Department Certificate 60117

This certificate program is designed to give students basic skills to seek employment in equipment repair, golf courses, rental yards, and small equipment repair shops. All courses are applicable for degree requirements.

Requirements for the Certificate Required courses:

AGOR 1	Horticultural Science		3.0	CSU
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
AGOR 57	Power Train Repair		3.0	
AGOR 71	Landscape Construction Fundamentals		3.0	CSU
AGOR 72	Landscape Hardscape Applications		3.0	CSU
AGOR 91	Work Experience in Nurs Operations	ery	1.0	
	<u>or</u>			
AGOR 92	Work Experience in Nurs Operations	ery	2.0	
	<u>or</u>			
AGOR 93	Work Experience in Nurs Operations	ery	3.0	
	<u>or</u>			
AGOR 94	Work Experience in Nurs Operations	ery	4.0	
	Total Units	31.0 - 3	4.0	

Landscape Irrigation Agricultural Sciences Department Certificate 60110

This certificate program is designed to give students basic skills in irrigation design, repair, installation, water management, and troubleshooting. A student could seek employment with a landscape contractor, schools, parks, and cities. All courses are applicable for degree requirements.

Requirements for the Certificate Required courses:

	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,UC
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 Enforcement Public Services Department Certificate 62102

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 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	

PLUS

Select four (4) courses from:

	Total Units	30.0	
CORS 45	The Violent Offender	3.0	
CORS 40	Crime and Delinquency	3.0	
CORS 30	Ethnic Relations in Corrections	3.0	
ADJU 74	Vice Control	3.0	
ADJU 59	Gangs in the Community/ Corrections	3.0	CSU
ADJU 38	Narcotics Investigation	3.0	
ADJU 20	Principles of Investigation	3.0	CSU
ADJU 13	Concepts of Traffic Services	3.0	
ט טנעא	concepts of Enforcement Service	3 3.0	

Concents of Enforcement Services 3.0

Recommended Electives:

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

Legal Office Specialist Office Technology Department Certificate 60519

This program is intended to prepare students for employment as entry-level legal office assistants, legal secretaries, administrative assistants, legal office managers, or other office support staff where legal knowledge is required. Training in a variety of computer and clerical skills, and law office procedures is emphasized. Students desiring a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

ı	Required co	urses:		
	BUSO 5	Business English	3.0	
	BUSO 25	Business Communications	3.0	CSU
	COMP 1	Computer Keyboarding	4.0	CSU
	COMP 2	Intermediate Computer Keyboarding	4.0	
	COMP 11	Internet Research for Business	2.0	CSU
	COMP 12	Office Computer Applications	4.0	CSU,UC
		<u>or</u>		
	CISB 15	Microcomputer Applications	4.0	CSU,UC
	COMP 20	Word for the Business Professional	4.0	
	COMP 28	Office Management Skills	3.0	
	COMP 68	Transcription Techniques	3.0	

	Total Units	39.0	
PLGL 35B	Automated Law Office Procedure	s3.0	
PLGL 35A	Law Office Procedures	3.0	CSU
PLGL 30	Introduction to Paralegal/Legal	3.0	CSU

Note: The core courses for the Legal Office Specialist certificate are equivalent to the courses required for the Administrative Assistant Levels I and II certificates.

Livestock Management Agricultural Sciences Department Certificate 60103

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.

Requirements for the Certificate Required courses:

negan ca co	W13C31		
AGAB 20	Microcomputer Applications in Agriculture	3.0	CSU,UC
AGAG 1	Food Production, Land Use and Politics - A Global Perspective		CSU,UC
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 Selection	2.0	CSU,UC
AGLI 96	Animal Sanitation	3.0	CSU
	and Disease Control		

PLUS

Select six (6) units from:

	Total Units	42.0	
BUSS 36	Principles of Marketing	3.0	CSU
BUSS 35	Professional Selling	3.0	CSU
BUSM 66	Small Business Management	3.0	CSU
BUSM 20	Principles of Business	3.0	CSU,U
AGOR 71	Landscape Construction Fundamentals	3.0	CSU

Manufacturing Technology

Aircraft Maintenance Tech & Manufacturing Dept. 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:

neganeace	,ui scs.		
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 39	SurfCAM I	2.0	CSU
MFG 39B	SurfCAM II	2.0	CSU
MFG 58	Blueprint Reading for Manufacturing	2.0	
MFG 70	Technical Mathematics - Manufacturing Applications	2.0	CSU
MFG 85	Manual CNC	2.0	CSU
	(Computerized Numerical Contro	I) 0pe	erations
PLUS			
Select two	(2) courses from:		
MFG 25	Advanced Parametric Solid Modeling for Manufacturing	2.0	
MFG 27	Autodesk Inventor	2.0	
WELD 40	Introduction to Welding	2.0	CSU
1			

Marketing Management

Total Units

Business Administration Department Certificate 60510

Requirements for the Certificate Required courses:

BUSM 20	Principles of Business	3.0	CSU,UC
BUSM 61	Business Organization and Management	3.0	CSU
BUSS 35	Professional Selling	3.0	CSU
BUSS 36	Principles of Marketing	3.0	CSU
BUSS 50	Retail Store Management and Merchandising	3.0	
BUSS 70	International Marketing Concepts	3.0	

28.0

BUSS 79	Work Experience in Marketing Management	1.0	
BUSS 85	Special Issues in Marketing	2.0	
CISB 15	Microcomputer Applications	4.0	CSU,UC
	Total Units	25.0	

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:

	Total Units	39.0	
MEDI 90	Medical Terminology	3.0	CSU
COMP 68	Transcription Techniques	3.0	
COMP 28	Office Management Skills	3.0	
COMP 20	Professional	4.0	
COMP 20	Word for the Business	4.0	
COMP 18	Data Entry	3.0	250,01
CISB 15	<u>or</u> Microcomputer Applications	4.0	CSU.UC
COMP 12	Office Computer Applications	4.0	CSU,UC
COMP 2	Intermediate Computer Keyboarding	4.0	
COMP 1	Computer Keyboarding	4.0	CSU
BUSO 25	Business Communications	3.0	CSU
BUSO 5	Business English	3.0	
BUSA 72	Bookkeeping - Accounting	5.0	
negan ca co			

Note: The core courses for the Medical Specialist certificate are equivalent to the courses required for the Administrative Assistant Levels I and II certificates.

Mental Health Technology - Psychiatric Technician Psychiatric Technician Department

Psychiatric Technician Departmen Certificate 61209

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 Certificate Required courses: MENT 40 Introduction to Interviewing

	Total Units	53.0	
PSYC 1A	Introduction to Psychology	3.0	CSU,UC
MENT 82	Work Experience in Mental Health Technology	2.0	
MENT 73T	Psychiatric Nursing for Psychiatric Technicians	6.0	
	Psychiatric Nursing for Psychiatric Technicians Clin	ical	
MENT 73L	Developmentally Disabled Per	son - CII 5.0	IIICAI
MENT 72L	Nursing Care of the	5.0	اماما
MENT 72	Nursing Care of the Developmentally Disabled Per	7.0 son	
MENT 70L	Introduction to Psychiatric Technology Clinical Technician		
MENT 70	Introduction to Psychiatric Technology	1.5	
	Nursing for Psychiatric Technic	ians Clir	nical
MENT 58L	Nursing and Pharmacology for Advanced Medical-Surgical	r PT 1.5	
MENT 58D	Advanced Medical-Surgical	4.0	
MENT 56L	Clinical Experience	4.0	
MENT 56	Medical-Surgical Nursing for Psychiatric Technicians	9.0	
PSYC 40	Introduction to Interviewing and Counseling	3.0	
MENT 40	Introduction to Interviewing and Counseling or	3.0	

Special Information:

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.

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.

- d) 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.
- 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. (If you were tested at Mt. San Antonio College, the office will obtain the test scores as long as an "Application for Admission" is on file with the Admissions and Records Office.)

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 (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.
- 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.

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.
- i) Certain convictions may prevent a candidate from being licensed as a Psychiatric Technician.
- 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. All Applicants are required to meet the Essential Functions for Success in the Mental Health Technology - Psychiatric Technician 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 and carry at least 125 pounds)
- 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 decisions/actions related to end of life issues
- Exposure 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 for others.

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:

CICD 13	M:	2.0	CCII
CISB 13	Microsoft Windows	2.0	CSU
	or		
61611.64	_		
CISN 21	Windows Operating Sys	tem 4.0	CSU
CISB 15	Microcomputer Applicat	tions 4.0	CSU,UC
CICD 24		4.0	,
CISB 21	Microsoft Excel	4.0	
CISD 11	Database Management	4.0	CSU
	- Microcomputers		
CISW 11	The Internet	4.0	CSU
COMP 50	Dockton Procentations	4.0	CSU
COMP 30	Desktop Presentations	4.0	(30
	Using PowerPoint		
	Total Units	22.0.24.0	
	Total Units	22.0 - 24.0	

Nursery Management Agricultural Sciences Department 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:

AGOR 1	Horticultural Science	3.0	CSU
AGOR 2	Plant Propagation/Greenhouse	3.0	CSU
	Management		
AGOR 24	Integrated Pest Management	3.0	CSU
AGOR 29	Ornamental Plants - Herbaceous	3.0	CSU,UC
AGOR 30	Ornamental Plants	3.0	CSU,UC
	- Trees and Woody Shrubs		
AGOR 32	Landscaping and Nursery	3.0	CSU
	Management		
AGOR 39	Turf Grass Production	3.0	CSU
	and Management		
AGOR 62	Landscape Irrigation	3.0	CSU
	- Design and Installation		
AGOR 64	Landscape Irrigation	3.0	
	- Drip and Low Volume		
	Total Units	27.0	

Park Management Agricultural Sciences Department Certificate 60116

This certificate program is designed to give students skills required for entry level positions in park management. Emphasis is placed on positions that are at the city and county level. All courses are applicable for degree requirements.

nequired to	413631		
AGOR 1	Horticultural Science	3.0	CSU
AGOR 4	Park Management	3.0	
AGOR 5	Park Facilities	3.0	
AGOR 24	Integrated Pest Management	3.0	CSU
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

	Total Units	30.0
AGOR 75	Urban Arboriculture	3.0
AGOR 63	Landscape Irrigation Systems Management	3.0

Pet Science

Agricultural Sciences Department Certificate 60104

This certificate program is designed to give students basic skills in production and marketing of pets at the wholesale and retail level. All courses are applicable for degree requirements.

Requirements for the Certificate Required courses:

AGAB 20	Microcomputer Applications in Agriculture	3.0	CSU,UC
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	
AGLI 96	Animal Sanitation	3.0	CSU
	and Disease Control		
AGPE 70	Pet Shop Management	3.0	
AGPE 71	Canine Management	3.0	
AGPE 72	Feline Management	3.0	
AGPE 73	Tropical and Coldwater	2.0	
	Fish Management		
AGPE 74	Reptile Management	2.0	
AGPE 76	Aviculture - Cage and Aviary Birds	3.0	
BUSM 66	Small Business Management	3.0	CSU
	Total Units	37.0	

Photography

Commercial and Entertainment Arts Certificate 61002

This certificate program is designed to prepare students to develop specific skills needed for employment in photography, art, cinema/animation, communications, industrial arts, graphics, and journalism.

Requirements for the Certificate Required courses:

neguneae	ourses.		
GRAP 10	Photo Editing with Photoshop	3.0	
PHOT 10	Basic Digital	3.0	CSU,UC
	and Film Photography		
PHOT 11	Advanced Professional	4.0	
	Photography		

PHOT 12	Photographic Alternatives	3.0	CSU,UC
	<u>or</u>		
PHOT 21	Exploring Color Photography	3.0	
PHOT 16	Fashion Photography	3.0	
	<u>or</u>		
PHOT 18	Portraiture	3.0	
	and Wedding Photography		
PHOT 17	Photocommunication	3.0	
PHOT 20	Color Photography	3.0	
PHOT 28	Photography Portfolio	2.0	
	Development		
PHOT 30	Commercial	3.0	
	and Illustrative Photography		
	Total Units	27.0	

Recommended 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 White Photography			
PHOT 2	Laboratory Studies: Color Photography			
PHOT 15	History of Photography			
1				

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 courses:*

CISB 11	Computer Information Systems	3.5	CSU,UC
CISD 11	Database Management	4.0	CSU
	- Microcomputers		
CISM 11	Systems Analysis and Design	3.5	CSU,UC
CISM 21	Client/Server Architecture, or	4.0	
CISP 21	Programming in Java	4.0	CSU,UC
CISN 21	Windows Operating System	4.0	CSU
CISP 31	Programming in C++	4.0	CSU,UC
CISP 34	Advanced C++ Programming	4.0	CSU,UC
	Total Units	27 N	

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:

	Total Units	27.0	
CISP 14	Advanced Basic Programming	4.0	CSU,UC
CISP 11	Basic Programming	4.0	CSU,UC
CISM 21	Client/Server Architecture	4.0	
	Systems Seminar		
CISM 14	Computer Information	4.0	
CISM 11	Systems Analysis and Design	3.5	CSU,UC
	- Microcomputers		
CISD 11	Database Management	4.0	CSU
CISB 11	Computer Information Systems	3.5	CSU,UC

Radio Broadcasting: Behind the Scenes

Commercial and Entertainment Arts Certificate 60606

The Behind-the-Scenes Radio Broadcasting Certificate is designed for students who are interested in the non-performance 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 onthe-air product.

Requirements for the Certificate 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 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	1.0	

R-TV 97D	<u>or</u> Entertainment Industry Internship - KSAK Radio		2.0	
PLUS				
Select nine	(9) units from:			
R-TV 03	Sportscasting and Report	ing	1.5	
R-TV 05	Radio-TV Newswriting		3.0	
R-TV 06	Broadcast Traffic Reportin	g	1.5	
R-TV 08	KSAK Radio Studio Operat	tions	2.0	CSU
R-TV 12	Commercial Copywriting		3.0	
R-TV 17	Internet Radio Broadcasti	ng	3.0	
R-TV 26	Legal Issues in Entertainm	ent Law	3.0	
R-TV 27	Radio Drama		3.0	
	Total Units	33.0 - 3	4.0	

Radio Broadcasting: On the Air Commercial and Entertainment Arts 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.

nequired to	u15051		
R-TV 01	Introduction to Broadcasting	3.0	CSU
R-TV 02	Radio and Television Announcing	3.0	CSU
	<u>or</u>		
R-TV 02A	On-Air Personality Development - Spanish Market	3.0	
R-TV 05	Radio-TV Newswriting	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	1.0	
	Industry Seminar		
R-TV 97B	Radio/Entertainment Industry Internship	1.0	
R-TV 97C	Entertainment Industry Internship - KSAK Radio	1.0	
R-TV 97D	<u>or</u> 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 Reporting	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 Promotion	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 La	w3.0	
R-TV 27	Radio Drama	3.0	
	Total Units 33.0 -	34.0	

Real Estate

Business Administration Department Certificate 60512

Prior to applying to take the California Real Estate Salesperson License Exam the applicant must have completed Real Estate Principles (BUSR 50), Real Estate Practice (BUSR 52), and a third elective course in real estate. The certificate in real estate includes these three courses and three additional courses for a total of six of the eight classes needed to satisfy the educational requirements to take the California Real Estate Broker Exam.

Requirements for the Certificate Required courses:

BUSR 50	Real Estate Principles	3.0	CSU
BUSR 51	Legal Aspects of Real Estate	3.0	
BUSR 52	Real Estate Practice	3.0	
	<u>or</u>		
BUSR 52D	Real Estate Practice	3.0	
	Work Experience		
BUSR 53	Real Estate Finance	3.0	
BUSR 81	Appraisal: Principles	3.5	
	and Procedures		
DILLIC			

PLUS

Select one (1) course from:

Jelett olle	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	3.0			
	of Real Estate Investments				

	Total Units	18.5	
BUSR 76	Escrow Procedures I	3.0	
BUSR 59	Real Estate Property Management	3.0	

Real Estate Appraisal Business Administration Department

Certificate 60513

The certificate in Real Estate Appraisal meets all of the educational requirements for Appraiser Trainee, Licensed Appraiser, and depending on the choice of electives may meet the educational requirements for Certified Residential Appraiser.

Requirements for the Certificate Reauired courses:

BUSR 81 Appraisal: Principles and Procedures BUSR 82 Uniform Standards of Professional Appraisal Practice BUSR 83 Residential Appraisal 3.5 BUSR 84 Residential Appraisal: 2.5 Case Studies			
of Professional Appraisal Practice BUSR 83 Residential Appraisal 3.5 BUSR 84 Residential Appraisal: 2.5	BUSR 81		3.5
BUSR 84 Residential Appraisal: 2.5	BUSR 82		1.0
The state of the s	BUSR 83	Residential Appraisal	3.5
	BUSR 84		2.5

PLUS

Select three (3) courses from.

Select till et	e (5) Courses Hom.		
BUSA 11	Fundamentals of Accounting	ng 3.0	
BUSR 50	Real Estate Principles	3.0	CSU
BUSR 51	Legal Aspects of Real Estate	e 3.0	
BUSR 53	Real Estate Finance	3.0	
BUSR 55	Real Estate Economics	3.0	
BUSR 57	Income Tax Aspects	3.0	
	of Real Estate Investments		
BUSR 59	Real Estate Property	3.0	
	Management		
BUSR 76	Escrow Procedures I	3.0	
CISB 15	Microcomputer Application	ıs 4.0	CSU,U
INSP 70	Elements of Construction	3.0	CSU
	Total Units 22	2.5 - 23.5	

School Age Child - Specialization Child Development 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).

Required courses: CHLD 1 Child, Family and Community 3.0 CSU,UC CHLD 5 Principles/Practices in Child 3.0 CSU **Development Programs**

Requirements for the Certificate

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 50	Multicultural Education: Anti-Bias Perspective	3.0	
CHLD 51	Early Literacy in Child Development	3.0	

3.0 CSU

3.0

3.0

Music and Motor Development 3.0 CSU CHLD 62 for Young Children CHLD 64 Health, Safety and Nutrition

	of Young Children
CHLD 74	Program Planning
	for the School Age Child

PLUS

Select one (1) course from:

	-,		
ENGL 64	Writing Effective Sentences	1.0	
ENGL 65	Grammar Review	1.0	
LIT 40	Children's Literature	3.0	CSU

PLUS

Select three (3) units from:

AND		
LERN 49	Math Skills Review	3.0
MATH 50	Pre-Algebra	3.0
	Total Units	31.0 - 33.0

Sign Language/Interpreting Sign Language Department Certificate 60801

The Mt. San Antonio College Interpreter Training Program is designed to prepare individuals for careers as Sign Language Interpreters. Interpreters are needed wherever communication happens between the hearing community and the Deaf and hard-of-hearing community. There are an endless number of settings in which this communication takes place. Interpreters are employed by school districts, cruiseship companies, corporations, government agencies, hospitals, colleges and universities, and a vast number of other organizations and private businesses.

Program Preparation: Preparation for the program includes fluency in American Sign Language demonstrated by the completion of SIGN 104, American Sign Language 4, (or the equivalent skill) and English fluency demonstrated by the completion of ENGL 1A.

National Certification: There are many specialties within the field of Sign Language Interpreting, but the focus of this program is on preparing the interpreter generalist. Although requiring some type of certification is becoming more common in California, there are still many job opportunities for the precertified interpreter.

Completing the certifiate in Sign Language/Interpreting does not make one a "Certified Interpreter"; however, graduates of this program are encouraged to apply for National Interpreting Certification (NIC) through the Registry of Interpreters for the Deaf (RID) at www.rid.org.

Requirements for the Certificate Required courses:

SIGN 105	American Sign Language 5	4.0	
SIGN 108	Fingerspelling	2.0	
SIGN 201	Deaf Perspectives	3.0	
SIGN 202	American Deaf Culture	3.0	CSU,UC
SIGN 210	American Sign Language Structure	3.0	CSU,UC
SIGN 220	Translation: American Sign Language/English	3.0	CSU
SIGN 223	Principles of Interpreting	3.0	
SIGN 225	Ethical Decision Making for Interpreters	2.0	
SIGN 227	Cognitive Processing for Interpreters	4.0	
SIGN 231	Interpreting	4.0	
SIGN 232	Advanced Interpreting	4.0	
SIGN 239	Practicum	1.0	

PLUS

Select three	Select three (3) courses from:				
SIGN 99	Special Projects	2.0			
	in Sign Language/Interpreting				
SIGN 238	Oral Transliteration	3.0			
SIGN 240	Vocabulary Building	2.0			
	for Interpreters				
SIGN 250	Interpreting with Classifiers	1.5			
SIGN 260	Video Interpreting	1.5			
SL 2	Linked Service Learning	1.0	CSU		

Total Units

Sports Turf Management

Agricultural Sciences Department Certificate 60112

This certificate program 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. All courses are applicable for degree requirements.

Requirements for the Certificate Required courses:

	Total Units	27.0	
AUUN 03	Systems Management	3.0	
AGOR 63	- Design and Installation Landscape Irrigation	3.0	
AGOR 62	Landscape Irrigation	3.0	CSU
AGOR 51	Tractor and Landscape Equipment Operations	3.0	CSU
AGOR 50	Soil Science and Management	3.0	CSU,U
AGOR 40	Sports Turf Management	3.0	
AGOR 39	Turf Grass Production and Management	3.0	CSU
AGOR 30	Ornamental Plants - Trees and Woody Shrubs	3.0	CSU,U
AGOR 24	Integrated Pest Management	3.0	CSU
AGOR 1	Horticultural Science	3.0	CSU

Telecommunications

Computer Information Systems Department Certificate 60708

This certificate program is intended to prepare students to work with microcomputer networks and communication systems.

Requirements for the Certificate Required courses:

Kequire	a courses:		
CISB 11	Computer Information Systems	3.5	CSU,UC
CISM 11	Systems Analysis and Design	3.5	CSU,UC
CISM 21	Client/Server Architecture	4.0	
CISN 11	Telecommunications/ Networking Fundamentals	4.0	CSU
CISN 14	Advanced Telecommunications	4.0	
CISN 41	Novell Netware Systems Administrationor	4.0	CSU
	<u>or</u>		
CISN 24	Microsoft NT Network System Administration	4.0	CSU
CISW 11	The Internet	4.0	CSU
	Total Units	27.0	

Television Production

Commercial and Entertainment Arts Certificate 60602

Students will gain experience in film-style production, remote and studio production. This course of study qualifies the student for a Certificate in television production, and is designed to prepare a student for an entry-level job in the industry in a variety of areas. This includes not only skills used in production, but also preproduction, and editing.

Requirements for the Certificate Required 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 100B	Work Experience in Film and TV	2.0	

PLUS

Select twelve (12) units from:

	Total Units	26.0	
R-TV 22	Editing for Film and Television	3.0	
	and Engineering		
R-TV 21	Remote Television Production	3.5	
R-TV 20	Television News Production	3.0	
R-TV 18	Writing for Television/Film	3.0	CS
Derett tirer	ve (12) units nonn		

Recommended Electives:

ANIM 115	Storyboarding
R-TV 26	Current Issues in Entertainment Law
THTR 17	Acting for Television

Theatrical Costumer Theater Department

Certificate 61001

The Theatrical Costumer Certificate provides the holder with the skills needed for employment as assistants in costuming positions in the fields of theater, film, video, <u>or</u> historical recreation.

Requirements for the Certificate Required 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:

Certificate 60111

	Total Units	24.0	
THTR 18	Technical Theater Practicum	1.0	CSU,UC
THTR 16	Theatrical Make-Up	2.0	CSU,UC
THTR 15	Play Rehearsal and Performance	2.0	CSU,UC
THTR 14	Stagecraft	3.0	CSU,UC
ARTD 20	Design: Two Dimensional	3.0	CSU,UC

Tree Care and Maintenance Agricultural Sciences Department

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
AGOR 51	Tractor and Landscape Equipment Operations	3.0	CSU
AGOR 50	Soil Science and Management	3.0	CSU,U
AGOR 32	Landscaping and Nursery Management	3.0	CSU
AGOR 30	Ornamental Plants - Trees and Woody Shrubs	3.0	CSU,U
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, <u>or</u> (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 Required courses: WATR 60 Introduction to Water Systems 3.0 WATR 61 Water Treatment 3.0

	Total Units	18.0
WATR 65	Water Hydraulics and Instrumentation	3.0
WATR 64	Cross Connection Control - Certified Specialist	3.0
WATR 63	Cross Connection Control - Certified Tester	3.0
WATR 62	Water Distribution	3.0
WATR 61	Water Treatment	3.0
WATR 60	Introduction to Water Systems	3.0

Web Page Design

Commercial and Entertainment Arts 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 QuarkXp		CSU
ARTD 20	Design:Two Dimensional	3.0	CSU,UC
COMP 13	Using Web Page Software	4.0	CSU
PHOT 10	Beginning Photography	3.0	CSU,UC
	Total Units	25.0	

Welder - Licensed

Air Conditioning, Water & Welding Technologies Certificate 60930

This program is designed to prepare students for entry-level employment 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.

Requirements for the Certificate						
Required co	ourses:					
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 60	Print Reading	3.0				
	and Computations for Welders					
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	3.0				
	Welding					
WELD 81	Pipe and Tube Welding	3.0				
	Total Units	27.0				

Note: Any higher level welding courses may be substituted for WELD 40.

Welder - Automotive Welding, Cutting & Modification

Air Conditioning, Water & Welding Technologies Certificate 60931

Prepares students for entry-level employment as a licensed welder with additional skills development and theory in automotive welding, cutting and modification. Coursework prepares students for industry licensing with emphasis on competencies required for certification in structural steel welding and specialty skills in automotive welding.

Requirements for the Certificate Required courses:

	Total Units	30.0	
WELD 91	Automotive Welding, Cutting and Modification	3.0	
WELD 81	Pipe and Tube Welding	3.0	
WELD 80	Fabrication and Construction Welding	3.0	
WELD 70C	Certification for Welders	3.0	
WELD 70B	Intermediate Arc Welding	3.0	
WELD 70A	Beginning Arc Welding	3.0	
	and Computations for Welders		
WELD 60	Print Reading	3.0	
WELD 53A	Welding Metallurgy	3.0	CSU
WELD 51	Basic Electric Arc Welding	2.0	
WELD 50	Oxyacetylene Welding	2.0	
WELD 40	Introduction to Welding	2.0	CSU
•			

Note: Any higher level welding courses may be substituted for WELD 40.

Welder - Gas Tungsten Arc Welding Air Conditioning, Water & Welding Technologies Certificate 60932

Prepares students for entry-level employment as a licensed welder with additional skills development and theory in gas tungsten ARC welding. Coursework prepares students for industry licensing with emphasis on competencies required for certification in aluminum, CRES, mild steel and selected exotic metals with specialty skills in gastungsten ARC welding.

Requirements for the Certificate Required courses:

	Total Units	30.0	
WELD 90A	Gas Tungsten Arc Welding	3.0	
WELD 81	Pipe and Tube Welding	3.0	
WELD 80	Fabrication and Construction Welding	3.0	
WELD 70C	Certification for Welders	3.0	
WELD 70B	Intermediate Arc Welding	3.0	
WELD 70A	Beginning Arc Welding	3.0	
	and Computations for Welders		
WELD 60	Print Reading	3.0	
WELD 53A	Welding Metallurgy	3.0	CSU
WELD 51	Basic Electric Arc Welding	2.0	
WELD 50	Oxyacetylene Welding	2.0	
WELD 40	Introduction to Welding	2.0	CSU

Note: Any higher level welding courses may be substituted for WELD 40.

Welding - Semiautomatic Arc Welding

Air Conditioning, Water & Welding Technologies Certificate 60933

Prepares students for entry-level employment as a licensed welder with additional skills development and theory in semiautomatic ARC welding. Coursework prepares students for industry licensing with emphasis on competencies required for certification in structural steel welding and specialty skills in semiautomatic ARC welding.

Requirements for the Certificate Required courses:

	Total Units	30.0	
WELD 90B	Semiautomatic Arc Welding Process	3.0	
WELD 81	Pipe and Tube Welding	3.0	
WELD 80	Fabrication and Construction Welding	3.0	
WELD 70C	Certification for Welders	3.0	
WELD 70B	Intermediate Arc Welding	3.0	
WELD 70A	Beginning Arc Welding	3.0	
1122000	and Computations for Welders	3.0	
WELD 60	Print Reading	3.0	
WELD 53A	Welding Metallurgy	3.0	CSU
WELD 51	Basic Electric Arc Welding	2.0	
WELD 50	Oxyacetylene Welding	2.0	
WELD 40	Introduction to Welding	2.0	CSU

Note: Any higher level welding courses may be substituted for WELD 40.

SKILLS CERTIFICATES

Accounting - Bookkeeping Accounting and Management Department Certificate 60504

The Accounting - 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.

Requirements for the Certificate Required courses:

BUSA 7	Principles of Accounting - Financial	5.0	CSU,UC
	<u>or</u>		
BUSA 72	Bookkeeping - Accounting	5.0	
BUSA 53	Ten-Key Calculations, or	2.0	
	<u>or</u>		
BUSA 81	Work Experience in Accounting	1.0	
BUSO 5	Business English	3.0	
	<u>or</u>		
BUSO 25	Business Communications	3.0	CSU
	Total Units 9.0	- 10.0	

BUSA 7 can be substituted for BUSA 72 for those students pursuing a higher level certificate/degree or plan on taking a course for which BUSA 7 is a prerequisite.

Accounting - Payroll

Accounting and Management Department Certificate 60505

The Accounting - Payroll Certificate combines accounting skills with specialized training in payroll, preparing the student for entry-level positions within the payroll segment of accounting. Common duties performed include payroll tax reporting, maintenance of payroll accounting systems, and posting payroll transactions to journals/ledgers.

Requirements for the Certificate

Reauired courses:

Completion of Accounting-Bookkeeping Certificate as follows:

BUSA 7	Principles of Accounting - Financial	5.0	CSU,UC
BUSA 72	<u>or</u> Bookkeeping - Accounting	5.0	
BUSA 53	Ten-Key Calculations	2.0	

	Total Units 14.0	15.0	
BUSA 81	<u>or</u> Work Experience in Accounting	1.0	
BUSA 76	Using Microcomputers in Managerial Accounting	1.0	
BUSA 81	or Work Experience in Accounting	1.0	
BUSA 75	Using Microcomputers in Financial Accounting	1.0 1.0	
BUSA 70	Payroll and Tax Accounting	3.0	
Plus the fol	llowing courses:		
BUSO 25	<u>or</u> Business Communications	3.0	CSU
BUSO 5	Business English	3.0	
BUSA 81	<u>or</u> Work Experience in Accounting	1.0	

Administrative Assistant - Level I Office Technology Department Certificate 60516

The Level I Certificate prepares students for entry-level clerical positions where keyboarding is the primary function.

Requirements for the Certificate *Required courses:*

	Total Units	14.0	
COMP 28	Office Management Skills	3.0	
CISB 15	Microcomputer Applications	4.0	CSU,UC
	<u>or</u>		
COMP 12	Office Computer Applications	4.0	CSU,UC
COMP 1B	Computer Keyboarding	2.0	CSU
	<u>and</u>		
COMP 1A	Computer Keyboarding	2.0	CSU
	<u>or</u>		
COMP 1	Computer Keyboarding	4.0	CSU
BUSO 5	Business English	3.0	

Art: Aesthetics for Technology Commercial and Entertainment Arts 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:

	Total Units	12.0	
ARTD 20	Design:Two Dimensional	3.0	CSU,UC
ARTD 15A	Drawing: Beginning	3.0	CSU,UC
	Layout and Design With QuarkXp	ress	
ARTC 171	Computer Graphics 2:	3.0	CSU
ARTC 70	Computer Graphics: Introduction	3.0	CSU

Recommended Electives:

ARTC 60	Graphic Design: Lettering and Typography
ARTC 74	Computer Graphics: Web Page Design
ARTC 161	Graphic Design:Layout
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:*

PE 3	First Aid and CPR	3.0	CSU,UC
PE 5	<u>or</u> Advanced First Aid/CPR/ Emergency Response	3.0	CSU
PE 19	Introduction to Care/Prevention of Activity/Sports-Related Injuri		CSU,UC
PE 34	Fitness for Living	3.0	CSU,UC
PE 92	Work Experience - Athletic Training	2.0	
	Total Units	11.0	

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 entry-level job in the business world.

Requirements for the Certificate Required courses:

	Total Units	9.0	
BUSM 62	Human Resource Management	3.0	
	and Management		
BUSM 61	Business Organization	3.0	CSU
BUSM 20	Principles of Business	3.0	CSU,U

Special Information:

Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.

Business: International - Level I Accounting and Management Department Certificate 60527

This specialized business certificate is intended to 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.

Requirements for the Certificate Required courses:

	Total Units	9.0	
BUSS 36	Principles of Marketing	3.0	CSU
	Business		
BUSM 51	Principles of International	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 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: Retail Management - Level I

Accounting and Management Department Certificate 60500

Introductory statement: 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 job in retail management.

Requirements for the Certificate Required courses:

neguneac	ourses.		
BUSO 25	Business Communications	3.0	CSU
CISB 15	Microcomputer Applications	4.0	CSU,U
FASH 62	Retail Store Management and Merchandising	3.0	CSU
BUSS 50	<u>or</u> Retail Store Management and Merchandising	3.0	
	Total Units	10.0	

Special Information:

Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.

Business: Small Business Management - Level I

Accounting and Management Department Certificate 60529

Small Business has been described as the engine of change within the economy. The Business: Small Business Management - Level I Certificate exposes students to the

fundamentals of managing and planning a small business. Upon completion students may qualify for an entry-level management position in a small business. Entrepreneurs may use this certificate as a means to plan and develop new business ventures.

Requirements for the Certificate *Required courses:*

	Total Units	9.0	
BUSS 36	Principles of Marketing	3.0	CSU
BUSM 66	Small Business Management	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: Workplace Competencies Business Administration 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 Required courses:

BUSA 68	Business Mathematics	3.0	
BUSO 5	Business English	3.0	
BUSO 26	Oral Communications for Business	3.0	
FASH 15	Fashion Strategies	3.0	CSU
FCS 41	Life Management	3.0	CSU
	Total Units 1	5.0	

Children's Program Certificate: General - Level I

Child Development 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:

Kequirea co	Kequired courses:					
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 $\underline{\textit{or}}$	3.0	CSU,UC			
CHLD 10H	Child Growth and Development - Honors	3.0	CSU,UC			
	Total Units	12.0				

CIS Professional Cert. in Database Mgmt. - 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:

	Total Units	10.0	
CISD 40	Database Design	2.0	
CISD 14	Advanced Database Management - Microcomputers	4.0	
	- Microcomputers		
CISD 11	Database Management	4.0	CSU

CIS Professional Cert. in Object - Oriented Design & Prog.

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	4.0	CSU,UC
CISP 31	<u>or</u> Programming in C++	4.0	CSU,UC
CISP 21	<u>or</u> Programming in Java	4.0	CSU,UC

	Total Units	10.0	
CISP 51	Principles of Object-Oriented Design	2.0	
CISP 44	<u>or</u> Advanced Programming in C#	4.0	
CISP 24	Advanced Java Programming	4.0	
	<u>or</u>		,
CISP 34	<u>or</u> Advanced C++ Programming	4.0	CSU.UC
CISP 14	Advanced Basic Programming	4.0	CSU,UC
CISP 41	Programming in C#	4.0	
	or		

CIS Professional Cert. in Windows Operating System Admin.

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

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 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:

	Total Units	12.0	
CISW 31	Web Servers	4.0	
CISN 34	LINUX Networking and Security	4.0	CSU
CISN 31	Linux Operating System	4.0	CSU

CIS Professional Certificate in Network Security

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.

	Total Units	12.0		
CISS 25	Network Security and Firewalls	4.0	CSU	
CISS 23	Network Analysis and NIDS	4.0	CSU	
CISS 21	Network Vulnerabilities and Countermeasures	4.0	CSU	
CICC 21	Made and Made and hiller an	4.0	CCII	

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:

CISW 41	XML Secure Programming	3.0
CISW 49	Service Oriented Architecture Concepts & Practice	3.0

Total Units 6.0

CIS Professional Certificate in SQL 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 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 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 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, web-based applets, servlets, navagating databases, and JavaBeans.

Requirements for the Certificate Required courses:

	Total Units	12.0	
CISP 24	Advanced Java Programming	4.0	
CISP 21	Programming in Java	4.0	CSU,UC
CISD 31	Database Management	4.0	
	<u>or</u>		
CISD 11	Database Management - Microcomputers	4.0	CSU

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/	4.0 CSU
	Networking Fundamentals	
CISN 24	Microsoft NT Network System	4.0 CSU
	Administration	
CISN 41	Novell Netware Systems	
	Administration	4.0 CSII

CISN 34 CISN 51	LINUX Networking and Security Cisco CCNA Networking Fundamentals and Routing		CSU	
	Total Units	16.0		

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	<u>or</u> High Performance Oracle SQL Tuning	e 2.0	
CISD 50	<u>or</u> Web Based Applications With PL/SQL	4.0	CS
CISD 33	Oracle Database Architect and Administration	cture 4.0	
CISD 32	Oracle Forms and Report	ts 4.0	
CISD 31	Database Management	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:*

	Total Units	8.0	
CISN 14	Advanced Telecommunications	4.0	
	Networking Fundamentals		
CISN 11	Telecommunications/	4.0	CSU

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:

	Total Units	8.0	
CISP 14	Advanced Basic Programming	4.0	CSU,UC
CISP 11	Basic Programming	4.0	CSU,UC

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:

CISW 11	The Internet	4.0	CSU
CISW 24	Advanced Web Programming	4.0	
CISW 31	Web Servers	4.0	
	Total Units	12.0	

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:*

PE 13 Sports Officiating 3.0 CSU,UC

	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

Exit Requirement: First Aid and CPR Certification

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

HRM 52	Food Safety and Sanitation	1.5	CSU
HRM 54	Basic Cooking Techniques	3.0	CSU
HRM 91	Work Experience in Restaurant/Hospitality	1.0	CSU
NF 20	Principles of Foods With Lab	3.0	CSU
PLUS			
Select six (6) units from:		
HRM 61	Menu Planning	3.0	CSU

3.0 CSU

3.0 CSU

3.0

14.5

Data Entry Office Technology Department Certificate 60701

Catering

Creative Foods

Total Units

Meal Management

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:

neguneace	MI JCJ.		
COMP 2	Intermediate Computer	4.0	
	Keyboarding		
COMP 12	Office Computer Applications	4.0	CSU,UC
	<u>or</u>		

CISB 15	Microcomputer Applications	4.0	CSU,UC
COMP 18	Data Entry	3.0	
	Total Units	11.0	

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:

	Total Units	13.0	
MATH 51	Elementary Algebra	4.0	
ENGL 68	English - Writing	3.0	
EDUC 10	Introduction to Education	3.0	CSU,UC
CHLD 1	Child, Family and Community	3.0	CSU,UC

Electronic Assembly and Fabrication

Electronics and Computer Technology Department Certificate 60929

The Electronic Assembly and Fabrcation Certificate is intented to prepare students to enter the electyronics firld as assembly and fabrication technicians. The program provides a series of courses to meet the needs of industry in assembly, soldering/de-soldering skills and fabrication for forh 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 profided 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:

neguneac	neganea courses.				
ELEC 50A	Electronic Circuits (DC)	4.0 CSU			
ELEC 61	Electronic Assembly and Fabrication	2.0 CSU			

	Total Units	12.0
EST 50	Electrical Fundamentals for Cable Installations	4.0
ELEC 62	Advanced Surface Mount Assembly and Rework	2.0

Recommended Electives:

ELEC 63 Electronic Assemblies Recertification

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, low-voltage wiring technician, home theatre installer, consumer electronics service technician and security system installer. The program prepares the student for the California State Contractors C-7 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 troublsehooting digital TV with LCD, plasma, and DLP video displays is included.

Requirements for the Certificate Required courses:

dards 4.0	
4.0	
1.0	
4.0	
ons 4.0	CSU,UC
3.0	CSU
	ons 4.0 4.0

Emergency Medical Technician - Level 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 10.0

Total Units 10.0

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 Selection Procedures

Aplication 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. All Applicants are required to meet the Essential Functions in the Emergency Medical Technician Program.

HRM 62

NF 61

NF 62

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 and carry at least 125 pounds
- 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 decisions/actions related to end of life issues
- Exposure 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 for others.

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 Required courses:

	Total Units	14.0	
FASH 26	Fashion Computer Assisted Design	2.0	
FASH 25	Fashion Computer-Assisted Drawing	3.0	
FASH 24	Fashion Patternmaking by Computer	3.0	
FASH 21	Patternmaking I	3.0	CSU
FASH 20	Illustration for Fashion and Costume Design	3.0	

Fashion Design - Level I Consumer Science and Design Technologies Certificate 61307

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.

Requirements for the Certificate *Required courses:*

FASH 8	Introduction to Fashion	3.0 CSU
FASH 10	Clothing Construction I	3.0 CSU
FASH 12	Clothing Construction II	3.0 CSU
FASH 15	Fashion Strategies	3.0 CSU
FASH 20	Illustration for Fashion and Costume Design	3.0
FASH 21	Patternmaking I	3.0 CSU
FASH 22	Fashion Design By Draping	3.0
FASH 23	Patternmaking II	3.0

FASH 30	Fashion Design	3.0
	and Product Development I	

Total Units 27.0

FASH 20 and FASH 23 may be taken two times for credit.

Fashion Merchandising - Level I Consumer Science and Design Technologies Certificate 61308

The Fashion Merchandising Level I Certificate prepares the holder for entry-level positions in a variety of retail merchandising, manufacturing, and promotion businesses.

Requirements for the Certificate Required courses:

	Total Units	15.0	
	and Product Development I		
FASH 30	Fashion Design	3.0	
FASH 17	Textiles	3.0	CSU,UC
FASH 15	Fashion Strategies	3.0	CSU
FASH 10	Clothing Construction I	3.0	CSU
FASH 8	Introduction to Fashion	3.0	CSU

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 job 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:

I IIIL OU	Total Units	16.0
FIRE 60	Fire Investigation 1A	2.0
FIRE 51	Fire Command 1B	2.0
FIRE 50	Fire Command 1A	2.0
FIRE 41	Fire Prevention 1B	2.0
FIRE 40	Fire Prevention 1A	2.0
FIRE 30	Fire Management 1	2.0
FIRE 21	Fire Instructor 1B	2.0
FIRE 20	Fire Instructor 1A	2.0
neganea	courses.	

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:

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 1	7.0	

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.

negunea	tourses.	
NF 10	Nutrition for Personal Health	3.0 CSU
	and Wellness	
PE 15	Administration	2.0
	of Fitness Programs	

PE 24	Kinesiology	2.0		
PE 38	Physiology of Exercise for Fitness	3.0		
PE 39	Techniques of Fitness Testing	2.0	CSU	
PE 40	Techniques of Teaching Cardiovascular Exercise	2.0		
PE 41	Techniques of Teaching Weight Training	2.0		
PE 85	Fitness Specialist Internship	1.0		
Required co	urses:			

Total Units 17.0

Recommended Electives:

DNCE 39A Alignment and Correctives I

Foster Care

Child Development Certificate 61317

This certificate requires the completion of twelve (12) units.

Requirements for the Certificate *Required courses:*

	Total Units	12.0	
לחנט 9/	Independent Living Through Foster Care	1.0	
CHLD 97	in Foster Care	1 0	
CHLD 96	Discipline and Adjustment	1.0	
CHLD 95	Issues in Foster Parenting	1.0	
CHLD 68	Children With Special Needs	3.0	CSU
SOC 15	Child Development	3.0	CSU,UC
	<u>or</u>		
CHLD 10H	Child Growth and Development - Honors	3.0	CSU,UC
	or		
CHLD 10	Child Growth and Development	3.0	CSU,UC
CHLD 1	Child, Family and Community	3.0	CSU

Gallery Design/Operation and Art Profession

Fine Arts Certificate 61020

This certificate is designed to provide students with the necessary theoretical and practical knowledge and skills to display an esthetically and conceptually effective art exhibition. Students will acquire the knowledge of various/diverse artistic media and develop a career-oriented artistic perspective.

Requirements for the Certificate Required courses:

ARTG 20	Intro Exhibition Design and Professional Practice	3.0	CSU
ARTG 21A	Introduction to Exhibition Production	3.0	CSU
ARTG 21B	Intermediate Exhibition Production	3.0	CSU
ARTG 22A	Exhibition Design and Art Gallery Operation Work	1.0 Experi	ence

PLUS

Select one (1) course from:

COMP 60	Desktop Publishing With InDesign or Pagemaker	4.0	CSI
COMP 62	Desktop Publishing With QuarkXpress	4.0	

PLUS

Select one (1) course from:

	Total Units	17.0	
AHIS 6	History of Modern Art	3.0	CSU,UC
KIIIOO	Renaissance Through Modern	3.0	C30,0C
AHIS 5	History of Western Art:	2 0	CSU,UC

Geographic Information Systems

History, Art History, Geography, Political Science Certificate 62200

The certificate program in Geographic Information 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.

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.

Requirements for the Certificate Required courses:

	Total Units	9.0	
GEOG 11	Intermediate GIS	3.0	
	to Geographic Information System	ns	
GEOG 10	Introduction	3.0	CSU,UC
GEOG 3	Map Reading and Interpretation	3.0	CSU

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:

	Total Units	7.5
	Management	
HRM 53	Dining Room Service	3.0 CSU
HRM 52	Food Safety and Sanitation	1.5 CSU
HRM 51	Introduction to Hospitality	3.0 CSU

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 Required courses:

	Total Units	10.0
11111171	in Restaurant/Hospitality	1.0 050
HRM 91	Work Experience	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: 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:

	Total Units	8.5	
HRM 91	Work Experience in Restaurant/Hospitality	1.0	CSU
HRM 53	Dining Room Service Management	3.0	CSU
HRM 52	Food Safety and Sanitation	1.5	CSU
HRM 51	Introduction to Hospitality	3.0	CSU

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:

	Total Units	10.0
CISS 15	Operating Systems Security	4.0
	Systems Security	
CISS 13	Principles of Information	4.0
CISS 11	Practical Computer Security	2.0

Introduction to Computer Information Technology

Computer Information Systems Department Certificate 60712

This program is designed as a foundational introduction to the computer and informational technology environment. This program will introduce the student to computer concepts, microcomputer applications, web/computer programming, and the Internet.

	Total Units	11.5	
CISB 15	<u>or</u> Microcomputer Applications	4.0	CSU,UC
COMP 12	Office Computer Applications	4.0	CSU,UC
CISW 11	The Internet	4.0	CSU
CISB 11	Computer Information Systems	3.5	CSU,UC

LVN 30-Unit Option - Career Mobility Track

Nursing Department Certificate 61202

In keeping with Section 1429 of the Board of Registered Nursing Rules and Regulations, completion of this certificate program entitles the student to apply for examination for licensure as a Registered Nurse in the State of California. This option is specifically designed for California licensees. Other states do not have this provision in their laws; therefore, endorsement for licensure may not be granted.

A certificate documenting completion is awarded at the end of the course of study. The student who elects to complete the 30-Unit Option track is not a graduate of the Associate in Science Degree Nursing Program at Mt. San Antonio College. Individuals who complete this track are not eligible to return to the college at a later date to complete a degree in nursing. LVN applicants must declare their educational goal at the time of application (30-Unit or Associate Degree). This decision is not subject to change at a later date.

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.

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 these courses.
- 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 California Licensed Vocational Nurse license.
- Criminal background check and drug screening must be completed prior to any patient contact.
- 7. A physical examination, including specific immunizations is required of candidates prior to the beginning of nursing classes.
- 8. Current Level C-Provider CPR certification

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

Requirements for the Certificate Reauired courses:

	Total Units	15.0	
NURS 11	Preceptorship in Nursing	2.0	CSU
NURS 10	Medical-Surgical Nursing: Integration/Regulation	4.0	CSU
NURS 9	Leadership in Nursing	1.0	CSU
NURS 8	Medical-Surgical Nursing: Circulation and Oxygenation	5.0	CSU
NURS 5	Psychiatric Nursing	3.0	CSU

PSYC 1A must be completed prior to entrance into NURS 5, Psychiatric Nursing.

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. The eligibility appointment:

- a) Once a student has completed all course prerequisites, the student will then apply to the Nursing Department on an appointment basis.
- b) Students who have completed coursework at other colleges must bring the following information to their eligibility appointment:
 - 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;

- Students completing college coursework outside of the 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 Office).
- Due to specific college deadlines for International Student applications, please inform the Counselor/Educational Advisor that this applies to you.
- c) All students will need to bring official proof of high school graduation, GED, or college graduation from an accredited institution in the United States.

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

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
- 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 decisions/actions related to end of life issues
- Exposure 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 for others.

Machine Operator

Aircraft Maintenance Tech & Manufacturing Dept. Certificate 60956

This certificate provides a foundation of basic skills for employment in a variety of entry-level manufacturing positions.

Requirements for the Certificate Required courses:

MFG 11	Manual and CNC	2.0	CSU
	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	2.0) Ope	CSU erations
DI IIC			

PLUS

	Total Units	12.0	
MFG 39	SurfCAM I	2.0	CSU
MFG 38	MasterCAM I	2.0	CSU
Select one (1) course from:			

MasterCAM

Aircraft Maintenance Tech & Manufacturing Dept. 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 Required courses:

	Total Units	6.0
MFG 38B	Advanced MasterCAM	2.0 CSU
MFG 38	MasterCAM I	2.0 CSU
MFG 11	Manufacturing Processes I	2.0 CSU

Nutrition Program Assistant - Level I Consumer Science and Design Technologies Certificate 61331

This certificate prepares students to work for community agencies and programs as nutrition assistants.

Requirements for the Certificate Required courses:

	Total Units	10.5	
NF 28	Cultural and Ethnic Foods	3.0	CSU,UC
NF 10	<u>or</u> Nutrition for Personal Health and Wellness	3.0	CSU
NF 25H	<u>or</u> Essentials of Nutrition - Honors	3.0	CSU,UC
HRM 52 NF 20 NF 25	Food Safety and Sanitation Principles of Foods With Lab Essentials of Nutrition	3.0	CSU CSU,UC
11014.50	F 16.6: 16 1: 11	4 -	CCII

Nutrition Program Assistant - Level II: Child Program Emphasis Consumer Science and Design Technologies Certificate 61335

This certificate prepares students to work for community agencies such as the Federal Supplemental Nutrition Program for Women, Infants and Children (WIC), Head Start, and School Food Service as nutrition assistants. Coursework is designed to provide basic skills and knowledge necessary to entry-level positions in nutrition programs that serve children.

Requirements for the Certificate Required courses: Level I as follows: HRM 52 **Food Safety and Sanitation** 1.5 CSU NF 20 Principles of Foods With Lab 3.0 CSU NF 25 **Essentials of Nutrition** 3.0 CSU,UC NF 25H Essentials of Nutrition - Honors 3.0 CSU,UC or NF 10 Nutrition for Personal Health 3.0 CSU and Wellness Plus the following courses: NF 28 **Cultural and Ethnic Foods** 3.0 CSU,UC CHLD 10 Child Growth and Development 3.0 CSU,UC CHLD 64 Health, Safety and Nutrition 3.0 of Young Children

16.5

17.5

Nutrition Program Assistant - Level II: Weight Management Program Emphasis

Total Units

Child Development Certificate 61336

This certificate prepares students to work as nutrition assistants in the public or private sector. Coursework is designed to provide the basic skills and knowledge necessary for entry-level positions in a variety of businesses, agencies and programs that focus on weight management.

Requirements for the Certificate Required courses:

and Counseling

Total Units

Level I as f	Level I as follows:						
HRM 52	Food Safety and Sanitation	1.5	CSU				
NF 20	Principles of Foods With Lab	3.0	CSU				
NF 25	Essentials of Nutrition	3.0	CSU,UC				
	<u>or</u>						
NF 25H	Essentials of Nutrition - Honors	3.0	CSU,UC				
	<u>or</u>						
NF 10	Nutrition for Personal Health	3.0	CSU				
	and Wellness						
NF 28	Cultural and Ethnic Foods	3.0	CSU,UC				
Plus the fo	Plus the following courses:						
NF 81	Cooking for Your Heart and Health	1.0					
PE 34	Fitness for Living	3.0	CSU,UC				
PSYC 40	Introduction to Interviewing	3.0					

Parametric Solid Modeling

Aircraft Maintenance Tech & Manufacturing Dept. Certificate 60923

With the strong relationship between AutoCAD and Manufacturing, this mini certificate glides the student through AutoDesk's 2-D, 3-D, Mechanical Desktop, and Inventors packages and relates them to real-life industrial usage.

Requirements for the Certificate *Required courses:*

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 25	Advanced Parametric Solid Modeling for Manufacturing	2.0
MFG 27	Autodesk Inventor	2.0
	Total Units	10.0

SurfCAM

Aircraft Maintenance Tech & Manufacturing Dept. Certificate 60925

This certificate is a direct path for manufacturing students to write, edit, download and run Computerized Numerical Control (CNC) machines, and provides a strong background in the basics of both manual and CNC machines.

Requirements for the Certificate Required courses:

Total Units

MFG 11	Manufacturing Processes I	2.0 CSU
MFG 39	SurfCAM I	2.0 CSU
MFG 39B	SurfCAM II	2.0 CSU
MFG 85	Manual CNC	2.0 CSU
	(Computerized Numerical Co	ontrol) Operations

8.0

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 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.

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:

MFG 70 Technical Mathematics
- Manufacturing Applications
WELD 60 Print Reading and Computations for Welders
WELD 70C Certification for Welders



Section 8

Programs of Study
Leading to an
Associate in Arts
Degree or an
Associate in
Science Degree

PROGRAMS OF STUDY LEADING TO AN ASSOCIATE DEGREE

Mt. San Antonio College offers both Associate of Science (A.S.) and Associate of Arts (A.A.) degrees. In general, the Associate of Science degrees are two-year occupational degrees that prepare students for a variety of career and technical fields. The Associate of Arts degrees, while not intended specifically for transfer, are two-year degrees in Liberal Arts and Sciences that provide for broad exploration of a specific area of emphasis. In many cases and with appropriate academic advising, students obtaining the Associate of Arts degree will find that they have a solid foundation for further postsecondary study should they wish to transfer at a later date.

GENERAL REQUIREMENTS FOR AN ASSOCIATE DEGREE

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.

GRADUATION REQUIREMENTS 2008-2009

The following requirements apply to both Associate of Science (A.S.) and Associate of Arts (A.A.) degrees:

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

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 66-67*). All courses must be completed with a grade of "C" or better.

Physical Well-Being Requirement: Complete at least one of the physical education activity courses with the following prefixes: DNCE, PE-A, PE-E, 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

<u>or</u> obtaining placement into READ 100 on initial Reading Placement exam or obtaining a satisfactory score on the Reading Competency Test.

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

1. Math 71 Intermediate Algebra,

Math 71B Intermediate Algebra - Second Half

- 2. Completing a more advanced college level mathematics course.
- 3. Obtaining a satisfactory score on the Intermediate 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.

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

- 1. 12 units in residence and enrollment in last semester, or
- 2. 45 units in residence if the last semester is not at Mt. San Antonio College.

Additional Requirements for the Associate in Science Degree

Students must complete all required courses in an approved occupational major with a minimum grade of "C" in all course. See pages 69-95 for listings of the Associate in Science degree majors.

Additional Requirements for the Associate in Arts Degree

Students must complete a pattern of 18 or more units from the courses identified within a specific area of emphasis with a minimum grade of "C" in all courses. See pages 96-100 for listings of the Associate in Arts in Liberal Arts & Sciences areas of emphasis.

Mt. San Antonio College General Education requirements.

NOTE: All courses used for the A.A. degree majors may be doubled counted toward the

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:

- 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.

Adapted from CSU Executive Order 595 and Title 5 Section 40405.1

GENERAL EDUCATION REQUIREMENTS FOR 2008-2009 AREA A: PHSC 7L Physical Science Laboratory Communication in the English Language PHYS 1 **Physics** (6 units): PHYS 2AG General Physics *Select two [2] courses from the following:* PHYS 2BG General Physics PHYS 4A **Engineering Physics** ENGL 1A Freshman Composition, or ENGL 1AH Freshman Composition — Honors LIFE SCIENCES <u>and</u> AGOR 1 Horticultural Science SPCH 1A Public Speaking, or ANAT 10A Introductory Human Anatomy SPCH 1AH Public Speaking — Honors ANAT 10B Introductory Human Physiology ANAT 35 **Human Anatomy** AREA B: ANAT 36 Human Physiology The Physical Universe and Life (3 units): ANTH 1 Biological Anthropology Select one [1] course from the Physical Sciences or ANTH 1H Biological Anthropology — Honors Life Sciences: ANTH 1L Biological Anthropology Laboratory PHYSICAL SCIENCES General Biology BIOL 1 ASTR 5 Introduction to Astronomy BIOL 2 Plant and Animal Biology ASTR 5L Astronomical Observing Laboratory Ecology and Field Biology BIOL 3 Geology of the Solar System ASTR 7 BIOL 4 Biology for Majors ASTR 8 Introduction to Stars, Galaxies, and the BIOL 4H Biology for Majors — Honors Universe BIOL 6 Humans and the Environment CHEM 10 Chemistry for Allied Health Majors BIOL 6L Humans and the Environment Laboratory CHEM 20 Introductory Organic and Biochemistry **BIOL 17** Neurobiology and Behavior Introduction to General Chemistry CHEM 40 BIOL 20 Marine Biology CHEM 50 General Chemistry I **BIOL 21** Marine Biology Laboratory CHEM 50H General Chemistry I — Honors MICR 1 Principles of Microbiology General Chemistry II CHEM 51 MICR 22 Microbiology GEOG 1 Elements of Physical Geography PSYC 1B Biological Psychology GEOG 1L Physical Geography Laboratory AREA C: GEOG 1H Elements of Physical Geography – Arts and Humanities (6 units): Honors Select two [2] courses, six [6] units minimum, with at GEOG LH Physical Geography Laboratory — Honors least one [1] course from the Arts and one [1] from GEOL 1 Introduction to Geology Humanities: GEOL 7 Geology of California GEOL 8 Earth Science ARTS GEOL 8H Earth Science — Honors AHIS 1 Understanding the Visual Arts, or GEOL 8L Earth Science Laboratory ARTB 1 Understanding the Visual Arts GEOL 9 **Environmental Geology** AHIS 1H Understanding the Visual Arts – Honors GEOL 10 Natural Disasters AHIS 2 Topics in Visual Art and Culture GEOL 13 **Evolution of the Earth** AHIS 2H Topics in Visual Art and Culture — Honors METO 3 Weather and the Atmospheric AHIS 3 History of Women and Gender in Art Environment AHIS 3H History of Women and Gender in Art -METO 3L Weather and the Atmospheric Honors **Environment Laboratory** AHIS 4 History of Western Art: Prehistoric OCEA 10 Introduction to Oceanography Through Gothic OCEA 10H Introduction to Oceanography - Honors AHIS 4H History of Western Art: Prehistoric OCEA 10L Introduction to Oceanography Laboratory Through Gothic — Honors PHSC 7 Physical Science AHIS 5 History of Western Art: Renaissance Through Modern

	GENERAL EDUCATION REQUIRE	MENTS FOR	2008-2009 (continued)
AHIS 5H	History of Western Art: Renaissance	FRCH 2	Continuing Elementary French
	Through Modern — Honors	FRCH 3	Intermediate French
AHIS 6	History of Modern Art	FRCH 4	Continuing Intermediate French
AHIS 6H	History of Modern Art — Honors	FRCH 5	Advanced French
AHIS 9	History of Asian Art	FRCH 6	Continuing Advanced French
AHIS 10	A History of Greek and Roman Art and	FRCH 60	French Culture Through Cinema
	Architecture	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
	Furnishings I	*HIST 35	History of Africa
MUS 7	Fundamentals of Music	*HIST 36	Women in American History — Beyond
MUS 11A	Music Literature Survey		the Stereotypes
MUS 11B	Music Literature Survey	*HIST 39	California History
MUS 12	History of Jazz	*HIST 40	History of the Mexican American
MUS 13	Introduction to Music Appreciation	HUMA 1	The Humanities
MUS 13H	Introduction to Music Appreciation —	ITAL 1	Elementary Italian
	Honors	ITAL 2	Continuing Elementary Italian
MUS 14A	World Music	ITAL 3	Intermediate Italian
MUS 14B	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	S	JAPN 4	Continuing Intermediate Japanese
CHIN 1	Elementary Chinese	JAPN 5	Advanced Japanese
CHIN 2	Continuing Elementary Chinese	LATN 1	Elementary Latin
CHIN 3	Intermediate Chinese	LATN 2	Continuing Elementary Latin
CHIN 4	Continuing Intermediate Chinese	LIT 1	Early American Literature
ENGL 1B	English — Introduction to Literary Types	LIT 2	Modern American Literature
ENGL 1BH	English — Introduction to Literary	LIT 6A	Survey of English Literature
	Types — Honors	LIT 6B	Survey of English Literature
FRCH 1	Elementary French	LIT 11A	World Literature
*Courses may	y not be double counted to satisfy more than o	ne area, even i	t a course is listed in more than one area.

^{*}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 2008-2009 (continued)					
	GENERAL EDUCATION REQUIREMENTS FOR 2008-2009 (continued)				
LIT 11B	World Literature	*HIST 36	Women in American History —		
LIT 14	Introduction to Modern Poetry		Beyond the Stereotypes		
LIT 15	Introduction to Cinema	*HIST 40	History of the Mexican American		
LIT 20	African American Literature	POLI 1	Political Science		
LIT 25	Contemporary Mexican American	POLI 1H	Political Science — Honors		
	Literature	POLI 25	Politics of the Mexican American		
LIT 33	Images of Women in Literature	POLI 35	African American Politics		
LIT 35	Science Fiction and Fantasy Survey				
LIT 36	Introduction to Mythology		ourses – select at least one [1] course		
LIT 40	Children's Literature		ollowing list (3 units):		
LIT 46	The Bible as Literature: Old Testament	AGAG 1	Food Production, Land Use and Politics —		
LIT 47	The Bible as Literature: New Testament		A Global Perspective		
PHIL 5	Introduction to Philosophy	AGFR 20	Conservation of Natural Resources		
PHIL 5H	Introduction to Philosophy — Honors	ANTH 3	Archaeology		
PHIL 12	Fthics	ANTH 5	Principles of Cultural Anthropology		
PHIL 12H	Ethics — Honors	ANTH 22	General Cultural Anthropology		
PHIL 15	Maior World Religions	ANTH 30	The Native American		
PHIL 15H	Major World Religions — Honors	BUSC 1A	Principles of Economics —		
PHIL 20A	History of Western Philosophy		Macroeconomics		
PHIL 20B	History of Western Philosophy	BUSC 1AH	Principles of Economics —		
SIGN 101	American Sign Language 1		Macroeconomics — Honors		
SIGN 101	American Sign Language 2	BUSC 1B	Principles of Economics —		
SIGN 102	American Sign Language 3		Microeconomics		
SIGN 103	American Sign Language 4	BUSC 1BH	Principles of Economics —		
SIGN 202	American Deaf Culture		Microeconomics — Honors		
SPAN 1	Elementary Spanish	CHLD 1	Child, Family, School and Community		
SPAN 2	Continuing Elementary Spanish	CHLD 10	Child Growth and Development		
SPAN 3	Intermediate Spanish	CHLD 10H	Child Growth and Development — Honors		
SPAN 4	Continuing Intermediate Spanish	GEOG 2	Human Geography		
SPAN 5	Advanced Spanish	GEOG 2H	Human Geography — Honors		
SPAN 6	Continuing Advanced Spanish	GEOG 5	World Regional Geography		
SPAN 11	Spanish for the Spanish Speaking	GEOG 8	The Urban World		
SPAN 12	Continuing Spanish for the	GEOG 30	Geography of California		
JI AN 12	Spanish Speaking	*HIST 3	History of World Civilization		
SPAN 25	Spanish Literature	*HIST 3H	History of World Civilization — Honors		
JI AN 25	Spanish Encrature	*HIST 4	History of World Civilization		
AREA D:		*HIST 4H	History of World Civilization — Honors		
	litical and Economic Institutions	*HIST 10	History of Asia		
	U.S. History and American Institutions	*HIST 11	History of Asia		
Select one [[1] course from the following:	*HIST 19	History of Mexico		
*HIST 1	History of the U.S.	*HIST 35	History of Africa		
*HIST 7	History of the U.S.	*HIST 39	California History		
*HIST 7H	History of the U.S. — Honors	*HIST 44	History of Native Americans		
*HIST 8	History of the U.S.	JOUR 100	Mass Media and Society		
*HIST 8H	History of the U.S. — Honors	JOUR 107	Race, Culture, Sex, and Mass Media Images		
*HIST 30	History of the African American	POLI 2	Political Science		
*HIST 31	History of the African American	POLI 5	Political Science Theory		
	•	POLI 9	Introduction to International Relations		
*Courses ma	*Courses may not be double counted to satisfy more than one area, even if a course is listed in more than one area.				

^{*}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 in the following section of this Catalog. To qualify for the degree, students must complete the required courses for the major as shown, plus additional general education courses as listed on pages 66-67. For further information, please consult with Counseling and Advising Services on the upper level of the Student Sevices Center.

A	Architectural Tech
Accounting6	9 Aviation Science
Administrative Assistant	9 B-C
Advertising Design and Illustration 6 Agri-Technology 6 Air Conditioning and Refrigeration 7 Airframe and Aircraft Powerplant Maintenance Technology — Day 7 Airframe and Aircraft Powerplant Maintenance Technology — Evening 7 Alcohol/Drug Counseling 7 Animation 7	Business: Manage Business: Retail Chemical Labora Child Developme Commercial Fligi Computer and N Computer Graph Computer Netwo
Architectural Technology — Design Concentration 7	Security Man

Architectural lechnology — lechnology	Concentration /2
Aviation Science	72

Business: Management72
Business: Retail Management72
Chemical Laboratory Technician72
Child Development
Commercial Flight
Computer and Networking Technology
Computer Graphics Design/Photography
Computer Network Administration and
Security Management

ALPHABETICAL LISTING — ASSOCIAT	E IN SCIENCE DEGREE (A.S.) (continued)
B-C (continued)	L
Computer Programmer – C++	Law Enforcement
Computer Programmer – Database	Licensed Vocational Nurse to RN
Management Systems	Livestock Management
Computer Programmer — Telecommunications 75	,
Computer Programmer – Visual Basic	M-N
Construction Inspection	Manufacturing Technology
Correctional Sciences	Marketing Management
	Mental Health Technology — Psychiaric
D-E	Technician84
Educational Paraprofessional	Nursing85
Electronics and Computer Engineering	0-Q
Technology76	
Emergency Medical Services	Ornamental Horticulture
Engineering Design Technology	Paralegal/Legal – Bankruptcy Specialty
Equipment Technology77	Paralegal/Legal – Corporations/
Escrow Management	Business Specialty
F	Paralegal/Legal – Criminal Specialty
	Paralegal/Legal – Family Law Specialty
Family and Consumer Sciences	Paralegal/Legal – Landlord/Tenant Specialty 88
Fashion Design	Park & Sports Turf Management
Fashion Merchandising	Pet Science
Fire Technology	Photography
Fire Technology – Administration	Physical Education
Fire Technology – Administrative	Psychiatric Technician to RN90
Communications	R
Fire Technology — Administrative Law	Radio Broadcasting: Behind the Scenes91
Fire Technology — Fire Prevention	Radio Broadcasting: On the Air
Fire Technology — Fire Training	Radiologic Technology
Fire Technology — Private Fire Service	Real Estate92
Floral Design	Real Estate Appraisal93
Tiolal Design	Registered Veterinary Technology
G-H	Respiratory Therapy93
General Business	
Histologic Technician Training80	S-T
Horse Ranch Management	Sign Language/Interpreting94
Hospitality and Restaurant Management 81	Small Business Management
Human Resource Management	Television Production95
I-J-K	U-V W
	Welding
Interior Design	
3	
International Business	

LISTING BY INSTRUCTIONAL DIVISION -	— ASSOCIATE IN S
Arts Division	Chemical Laboratory 1
Advertising Design and Illustration69Animation71Computer Graphics Design/Photography74Photography89Radio Broadcasting: Behind the Scenes91Radio Broadcasting: On the Air91Television Production95	Equipment Technolog Floral Design
Business Division	Registered Veterinary
Accounting	Physical Education
Administrative Assistant	Physical Education
Business: Retail Management	Technology & Heal
Child Development	Air Conditioning and
Computer Network Administration &	Airframe and Aircraft
Security Management	Maintenance Tech
Computer Programmer — C++	Airframe and Aircraft
Management Systems	Maintenance Tech
Computer Programmer – Telecommunications 75	Alcohol/Drug Counsel Architectural Technolo
Computer Programmer – Visual Basic	Aviation Science
Escrow Management	Commercial Flight
Family and Consumer Sciences	Computer and Netwo
Fashion Design	Construction Inspection
Fashion Merchandising	Correctional Sciences
General Business	Electronics and Comp
Human Resource Management	Technology
Interior Design	Emergency Medical S
Interior Design — Kitchen and Bath Design 82	Engineering Design To
International Business	Fire Technology
Marketing Management	Fire Technology — Ad Fire Technology — Ad
Paralegal/Legal — Bankruptcy Specialty	Communications
Paralegal/Legal — Corporations/	Fire Technology — Ad
Business Specialty	Fire Technology — Fire
Paralegal/Legal – Criminal Specialty	Fire Technology — Fire
Paralegal/Legal — Family Law Specialty	Fire Technology — Fire
Real Estate	Fire Technology — Pri
Real Estate Appraisal	Law Enforcement
Small Business Management	Licensed Vocational N Manufacturing Technol
Humanities & Social Sciences Division	Mental Health Techno
Educational Paraprofessional	Technology
Sign Language/Interpreting94	Nursing
Natural Sciences Division	Psychiatric Technician Radiologic Technology
Agri-Technology	Respiratory Therapy
Architectural Technology — Design Concentration	Welding

— ASSOCIATE IN SCIENCE DEGREE (A.S.)
Chemical Laboratory Technician72Equipment Technology77Floral Design80Histologic Technician Training80Horse Ranch Management81Livestock Management83Ornamental Horticulture86Park & Sports Turf Management89Pet Science89Registered Veterinary Technology93
Physical Education Division
Physical Education
Technology & Health Division
Air Conditioning and Refrigeration
Maintenance Technology — Evening 70 Alcohol/Drug Counseling 70 Architectural Technology 71 Aviation Science 72 Commercial Flight 73 Computer and Networking Technology 73 Construction Inspection 75 Correctional Sciences 75 Electronics and Computer Engineering 76 Emergency Medical Services 76 Engineering Design Technology 77 Fire Technology 78 Fire Technology Administration 79 Fire Technology Administrative 79 Fire Technology Administrative 79 Fire Technology 79
Fire Technology — Fire Training

ASSOCIATE IN SCIENCE DEGREES

Accounting

Accounting and Management Department Major 20502

Students preparing to become professional accountants should follow the Business Administration course for a four-year college or university. The following is semi-professional training for those who seek employment in bookkeeping or accounting positions at the end of two years.

Requirements for the Major Required courses:

	Total Units 36.0	- 37.0	
CISB 15	Microcomputer Applications	4.0	CSU,UC
BUSO 25	Business Communications	3.0	CSU
BUSM 20	Principles of Business	3.0	CSU,UC
BUSA 81	Work Experience in Accounting	1.0	
	or		
BUSA 76	Using Microcomputers in Managerial Accounting	1.0	
BUSA 81	Work Experience in Accounting		
DUCA 01	Or Work Function to in Association	1.0	
	in Financial Accounting		
BUSA 75	Using Microcomputers	1.0	
BUSA 70	Payroll and Tax Accounting	3.0	
BUSA 58	Federal Income Tax Law	3.0	
BUSA 81	Work Experience in Accounting	1.0	
	<u>or</u>		
BUSA 53	Ten-Key Calculations	2.0	
BUSA 52	Intermediate Accounting	3.0	
BUSA 21	Cost Accounting	4.0	
BUSA 8	Principles of Accounting - Managerial	5.0	CSU,UC
BUSA 7	Principles of Accounting - Financial	5.0	CSU,UC

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.

Requirements for the Major				
Required co	re courses:			
BUSO 5	Business English		3.0	
BUSO 25	Business Communication	S	3.0	CSU
BUSO 26	Oral Communications for Business		3.0	
COMP 2	Intermediate Computer Keyboarding		4.0	
COMP 12	Office Computer Applicat	ions	4.0	CSU,UC
CISB 15	Microcomputer Applicati	ons	4.0	CSU,UC
COMP 20	Word for the Business Prof	essional	4.0	
COMP 28	Office Management Skills	S	3.0	
COMP 50	Desktop Presentations Using PowerPoint		4.0	CSU
COMP 68	Transcription Techniques		3.0	
PLUS				
Select one (1) course from:			
COMP 11	Internet Research for Bus	iness	2.0	CSU
COMP 13	Using Web Page Software	2	4.0	CSU
COMP 18	Data Entry		3.0	
COMP 60	Business Publications Usi Desktop Publishing Softv	,	4.0	CSU
	Total Units	33.0 - 3	5.0	

Advertising Design and Illustration Commercial and Entertainment Arts Major 21003

This program is designed to provide students with a combination of critical thinking skills, problem solving capacities, and the technical expertise necessary for entry level employment as a Graphic Designer or Illustrator in Advertising and related Visual Communication industries. Students completing the course are eligible for advanced training or for transfer to a college or university for further study.

Requirements for the Major Required courses:

ARTC 60	Graphic Design: Lettering and Typography	3.0	CSU,UC
ARTC 66	Portfolio	3.0	
ARTC 70	Computer Graphics: Introduction	3.0	CSU
ARTC 165	Illustration	3.0	CSU
ARTC 171	Computer Graphics 2: Advanced Layout and Design	3.0	CSU
ARTD 15A	Drawing: Beginning	3.0	CSU,UC
ARTD 17A	Drawing: Life	3.0	CSU,UC
ARTD 20	Design: Two Dimensional	3.0	CSU,UC
ARTD 25A	Painting: Beginning	3.0	CSU,UC

PLUS Select one (1) course from: PLUS

AHIS 5	History of Western Art: Renaissance Through Modern	3.0	CSU,UC
	<u>or</u>		
AHIS 5H	History of Western Art	3.0	CSU,UC
	- Renaissance Through Modern -	Hono	rs
AHIS 6	History of Modern Art	3.0	CSU,UC
	<u>or</u>		
AHIS 6H	History of Modern Art - Honors	3.0	CSU,UC

30.0

Total Units Recommended Electives:

AHIS 4	History of Western Art: Prehistoric Through Gothic
ANIM 172	Motion Graphics With After Effects
ANIM 175	Web Animation With Flash
ARTC 77	Computer Graphics: Illustration
ARTC 78A	Work Experience in Advertising Design/Illustration
ARTC 78B	Work Experience in Advertising Design/Illustration
ARTC 78C	Work Experience in Advertising Design/Illustration
ARTD 16	Drawing: Perspective
ARTD 45	Printmaking: Silk-Screening
ARTS 22	Design:Three-Dimensional
PHOT 10	Basic Digital and Film Photography

Agri-Technology Agricultural Sciences Department Major 20101

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 experiences 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 the courses are offered.

The following programs list all courses needed to satisfy major requirements. Students may obtain certificates upon completion of required courses listed. Additional courses needed for completion of the Associate in Science Degree are listed in this catalog. 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, counselor or advisor to discuss transferability of courses. The curriculum is flexible in nature to allow for previous experience and specilization in a givenarea of agriculture and agricultural business.

Requirements for the Major Required courses:

AGAB 20 Microcomputer Applications in Agriculture AGAG 1 Food Production, Land Use and Politics - A Global Perspective AGAG 91 Agricultural Calculations 3.0 CSU, UC and Politics - A Global Perspective AGAN 1 Animal Science 3.0 CSU, UC and AGOR 1 Horticultural Science 3.0 CSU AGOR 32 Landscaping and Nursery Management AGOR 56 Engine Diagnostics 3.0 CSU AGOR 71 Landscape Construction Fundamentals				
and Politics - A Global Perspective AGAG 91 Agricultural Calculations 3.0 CSU,UC AGAN 1 Animal Science 3.0 CSU,UC AGOR 1 Horticultural Science 3.0 CSU AGOR 32 Landscaping and Nursery 3.0 CSU Management AGOR 56 Engine Diagnostics 3.0 CSU AGOR 71 Landscape Construction 3.0 CSU	AGAB 20		3.0	CSU,UC
AGAN 1 Animal Science 3.0 CSU,UC AGOR 1 Horticultural Science 3.0 CSU AGOR 32 Landscaping and Nursery 3.0 CSU Management AGOR 56 Engine Diagnostics 3.0 CSU AGOR 71 Landscape Construction 3.0 CSU	AGAG 1	•		CSU,UC
AGOR 1 Horticultural Science 3.0 CSU AGOR 32 Landscaping and Nursery Management AGOR 56 Engine Diagnostics 3.0 CSU AGOR 71 Landscape Construction 3.0 CSU	AGAG 91	Agricultural Calculations	3.0	
AGOR 32 Landscaping and Nursery 3.0 CSU Management AGOR 56 Engine Diagnostics 3.0 CSU AGOR 71 Landscape Construction 3.0 CSU	AGAN 1	Animal Science	3.0	CSU,UC
Management AGOR 56 Engine Diagnostics 3.0 CSU AGOR 71 Landscape Construction 3.0 CSU	AGOR 1	Horticultural Science	3.0	CSU
AGOR 71 Landscape Construction 3.0 CSU	AGOR 32	,	3.0	CSU
	AGOR 56	Engine Diagnostics	3.0	CSU
	AGOR 71		3.0	CSU

PLUS

Select three (3) courses from:

	Total Units	33.0 - 3	4.0	
AGPE 71	Canine Management		3.0	
AGPE 70	Pet Shop Management		3.0	
AUUN 02	- Design and Installation		٥.0	CJU
AGOR 62	Landscape Irrigation		3.0	CSU
AGOR 24	Integrated Pest Manager	ment	3.0	CSU
AGLI 30	Beef Production		3.0	CSU
AGLI 17	Sheep Production		3.0	CSU
AGLI 16	Horse Production		4.0	CSU,U
AGLI 14	Swine Production		3.0	CSU
AGFR 20	Conservation of Natural R	esources	3.0	CSU,U
Jereet timee	(5) courses monn.			

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 acounselor or advisor to discuss transferability of courses.

Requirements for the Major Required courses:

AIRC 10	Technical Mathematics	2.0
	in Air Conditioning and Refrigeration	
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	4.0
	for Air Conditioning and Refrige	eration
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	4.0
	for Air Conditioning and Refrige	eration
AIRC 32A	Air Properties and Measuremer	nt 1.5
AIRC 32B	Air Distribution Systems	1.5
AIRC 34	Advanced Mechanical	4.0
	Refrigeration	
AIRC 37	Pneumatic Controls	2.0
AIRC 39	Building Automation Systems	4.0
	Total Units	37.5

Airframe and Aircraft Powerplant Maint Technology-Evening

Aircraft Maintenance Tech & Manufacturing Dept. Major 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 oportunities 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 Required courses:

ı	nequireu co	urses.	
	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
	AIRM 95A	Aircraft Powerplant	3.0
		Maintenance Technology	
	AIRM 95B	Aircraft Powerplant	3.0
		Maintenance Technology	
	AIRM 96A	Aircraft Powerplant	3.0
	AIRM 96B	Maintenance Technology	3.0
	AIKIVI 90B	Aircraft Powerplant Maintenance Technology	3.0
	AIRM 97A	Aircraft Powerplant	3.0
	AIIIIII 27A	Maintenance Technology	5.0
ı			

AIRM 97B	Aircraft Powerplant Maintenance Technology	3.0
AIRM 98A	Aircraft Powerplant Maintenance Technology	3.0
AIRM 98B	Aircraft Powerplant Maintenance Technology	3.0

63.0

Recommended Electives

Total Units

Kecomm	enaea 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-Day

Aircraft Maintenance Tech & Manufacturing Dept.

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 oportunities 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 Required courses:

	Total Units	63.0	
AIRM 73	Aviation Welding	1.5	
AIRM 72	Aviation Materials and Processes	1.5	
AIRM 71	Aviation Maintenance Science	6.0	
AIRM 70B	Aircraft Maintenance Electricity and Electronics	3.0	
AIRM 70A	Aircraft Maintenance Electricity and Electronics	3.0	
AIRM 66B	Airframe Maintenance Technology	12.0	
AIRM 66A	Airframe Maintenance Technology	12.0	CSU
AIRM 65B	Aircraft Powerplant Maintenance Technology	12.0	
AIRM 65A	Aircraft Powerplant Maintenance Technology	12.0	CSU

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

Alcohol/Drug Counseling

Public Services Department Major 22101

In this program the student integrates theory and practical experience in developing skills necessary to work with the alcohol and drug abuse population as well as families and employers of chemically-dependent persons. The curriculum is designed to meet the credentialing requirements of the California Association of Alcohol/Drug Educators. Students who complete this option qualify for employment in a variety of chemical-dependant settings.

	ments for the Major		
Required c	ore courses:		
AD 1	Alcohol/Drug Dependency	3.0	CSU
AD 2	Physiological Effects of Alcohol/Drugs	3.0	CSU
AD 3	Chemical Dependency: Intervention, Treatment and Rec	3.0 overy	CSU
AD 4	Issues in Domestic Violence	3.0	
AD 5	Chemical Dependency: Prevention and Education	1.5	CSU
AD 6	Dual Diagnosis	3.0	CSU
Required s	kill courses:		
AD 8	Group Process and Leadership	3.0	
AD 9	Family Counseling	3.0	
AD 10	Client Record and Documentation	1.5	
AD 11	Techniques of Intervention and Referral	3.0	
Required fi	ield work courses:		
AD 13	Internship/Seminar	3.5	CSU
AD 14	Advanced Internship/Seminar	3.5	CSU
PLUS			
	6) units from:		
CHLD 10	Child Growth and Development <u>or</u>	3.0	CSU,U(
CHLD 10H	Child Growth and Development - Honors	3.0	CSU,UC
PSYC 1A	Introduction to Psychology or	3.0	CSU,UC
PSYC 1AH	Introduction to Psychology - Honors	3.0	CSU,UC
PSYC 19	Abnormal Psychology	3.0	CSU,UC
SOC 1	Sociology <u>or</u>	3.0	CSU,UC
SOC 1H	Sociology - Honors	3.0	CSU,UC
SOC 14	Marriage and the Family	3.0	CSU,UC
SOC 15	Child Development	3.0	CSU,UC
	Total Units	40.0	
Eliaibilit	y Poguiromonto		

Eligibility Requirements and Selection Procedures **Eligibility Requirements:**

- File a College application and be accepted as a student at Mt. San Antonio College.
- Selection Procedures All classes are open to all students who meet admission requirements and course prerequisites.

Special Instructions:

- a) Restricted Electives must be taken prior to enrollment in Field Experience
- b) Restricted Electives can be taken in conjunction with core and skills courses
- Refer to Schedule of Credit Classes for sequence of courses
- For questions, call the division office at (909) 594-5611, ext. 4750

Working environment:

- May be exposed to infectious and contagious disease, without prior notification
- May be 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 decisions/actions related to end of life issues
- Exposed to products containing latex
- Exposure to a highly charged emotional environment which can be stressful intense

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 for others.

Animation

Commercial and Entertainment Arts Major 21006

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 both an A.S. Degree and certificates. Course content is driven by industry needs in order to provide the student with the best possible preparation for a career in animation or for transfer to an institution of higher learning.

Required of	ments for the Major		
ANIM 101	Drawing - Gesture and Figure	3.0	CSU
ANIM 104	Drawing Fundamentals	3.0	
7	or	3.0	230
ARTD 15A	 Drawing: Beginning	3.0	CSU,UC
ANIM 108	Principles of Animation	3.0	CSU
ANIM 115	Storyboarding	3.0	
ANIM 116	Character Development	1.5	
ANIM 119	Portfolio	1.5	
ANIM 130	Introduction to 3-D Computer Animation	3.0	
ARTC 70	Computer Graphics: Introduction		CSU
ARTD 17A	Drawing: Life	3.0	CSU,UC
ARTD 20	Design: Two Dimensional	3.0	CSU,UC
ARTS 22	Design: Three-Dimensional	3.0	CSU,UC
PLUS			
Select two	(2) courses from:		
ANIM 117	Animation Background Layout	3.0	CSU
ANIM 120	Script Development for Animation	3.0	
ANIM 132	Modeling, Texture Mapping and Lighting	3.0	
ANIM 175	Web Animation With Flash	3.0	
ARTD 16	Drawing: Perspective	3.0	CSU,UC
	Total Units	36.0	
Recomm	ended Electives:		
AHIS 4	History of Western Art: Prehistoric Through Gothic		
AHIS 5	History of Western Art: Renaissance Through Modern		
ANIM 107	Figure in Motion		
ANIM 109	Advanced Principles of Animation	ı	
ANIM 111	Animal Drawing		
ANIM 118	Background Painting		
ANIM 120	Script Development for Animatio	n	
ANIM 134	Dynamic Digital Environments		
ANIM 135	Visual Effects II: Particle Systems		
ANIM 148	Demo-Reel		
ARTD 25A	Painting: Beginning		
Archite	ectural Technology		

- Design Concentration

Architecture and Engineering Design Department

Major 20202

This program prepares students to enter the field of

architecture and related areas. The student is provided with an option of direct employment into the field or preparation for transfer to the professional school of architecture. Two concentrations are available. The Design Concentration focuses upon studio-based design projects, drawing, and presentation skills. The student will develop a portfolio of work relevant to their Concentration. A certificate program is also available.

Requirements for the Major				
Required c	ourses:			
ARCH 10	Design I - Elements of Design	3.0	CSU	
ARCH 11	Architectural Drawing	3.0	CSU,UC	
ARCH 12	Architectural Materials	3.0	CSU	
	and Specifications			
ARCH 13	Architectural Illustration	3.0	CSU,UC	
ARCH 16	Basic CAD and Computer Application	4.0	CSU,UC	
ARCH 21	Design II - Architectural Design	3.0	CSU	
ARCH 23	Architectural Presentations	3.0	CSU	
ARCH 27	Design III - Environmental Design	3.0	CSU,UC	
ARCH 29	Design IV - Advanced Project	3.0	CSU	
ARCH 31	World Architecture I	3.0	CSU	
ARCH 32	World Architecture II	3.0	CSU,UC	
PLUS				
Select one	(1) course from:			
ARCH 15	Architectural Working Drawings - I	3.0	CSU	
ARCH 18	Architectural Computer	3.0		
	Aided Design Elements	5.0		
PLUS				
Select one	(1) course from:			
ARCH 14	Building and Zoning Codes	3.0		
ARCH 15	Architectural Working Drawings - I	3.0	CSU	
ARCH 18	Architectural Computer Aided Design Elements	3.0		
ARCH 26	Architectural CAD Working Drawings	3.0		
ARCH 28	Architectural CAD 3-D Illustration and Animation	3.0	CSU	

Architectural Work Experience

Architectural Work Experience

Elements of Construction

Total Units

ARCH 89

ARCH 90

INSP 70

2.0

38.0 - 40.0

3.0 CSU

Recommended Electives:

Drawing: Beginning
Design: Two Dimensional
Design:Three-Dimensional
Humans and the Environment
Critical Thinking and Writing
Trigonometry
General Physics

ENGL 1C, MATH 150, and PHYS 2AG are typically required for transfer to a professional school of architecture.

Verify all requirements with the transfer institution.

Architectural Technology - Technology Concentration

Architecture and Engineering Design Department Major 20201

This program prepares students to enter the field of architecture and related areas. The student is provided with an option of direct employment into the field or preparation for transfer to the professional school of architecture. Two concentrations are available. The Technology Concentration focuses upon building and construction technology, documentation, codes, and computer applications. Current technology and computer (CAD) skills are integrated into the program. A certificate program is also available.

Requirements for the Major Required courses:

nequireu co	Jui ses.		
ARCH 10	Design I - Elements of Design	3.0	CSU
ARCH 11	Architectural Drawing	3.0	CSU,UC
ARCH 12	Architectural Materials and Specifications	3.0	CSU
ARCH 14	Building and Zoning Codes	3.0	
ARCH 15	Architectural Working Drawings - I	3.0	CSU
ARCH 16	Basic CAD and Computer Application	4.0	CSU,UC
ARCH 18	Architectural Computer Aided Design Elements	3.0	
ARCH 26	Architectural CAD Working Drawings	3.0	
ARCH 28	Architectural CAD 3-D Illustration and Animation	3.0	CSU
ARCH 29	Design IV - Advanced Project	3.0	CSU
EDT 20	Technical Descriptive Geometry	3.0	CSU
INSP 70	Elements of Construction	3.0	CSU

PLUS

Select one (1) course from:

	,		
ARCH 13	Architectural Illustration	3.0	CSU,UC
ARCH 21	Design II - Architectural Design	3.0	CSU
ARCH 23	Architectural Presentations	3.0	CSU
ARCH 31	World Architecture I	3.0	CSU,UC
ARCH 32	World Architecture II	3.0	CSU,UC
ARCH 89	Architectural Work Experience	1.0	
ARCH 90	Architectural Work Experience	2.0	
EDT 26	Civil Engineering Technology and CAD	3.0	CSU
INSP 71	Construction Estimating	3.0	CSU

Recommended Electives:

Total Units

MATH 150 Trigonometry PHYS 2AG General Physics

MATH 150 AND PHYS 2AG typically are required for transfer to a professional school of architecture. Verify all requirements with the transfer institution.

38.0 - 40.0

Aviation Science

Aeronautics, Transportation and Travel Department Major 20910

This curriculum meets the requirements of the Federal Aviation Administration Collegiate Training Initiative (CTI). Under an educational partnership agreement with the FAA, this CTI program prepares students for broad-based aviation careers. Students completing this CTI program may be recommended by the college for hiring by the FAA as air traffic controllers.

Requirements for the Major Reauired courses:

	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
AIRT 41	Aircraft Recognition and Performance	2.0	CSU
AERO 30	Instrument Ground School	3.0	CSU
	Federal Aviation Regulations	2.0	CSU
AERO 29	and Human Factors	2.0	CCII
AERO 27	Aviation Safety	3.0	CSU
AERO 26	Aviation Weather	3.0	CSU
AERO 24	Navigation	3.0	CSU
AERO 23	Primary Pilot Ground School	4.0	CSU
negunea co	ui ses.		

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

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:

ı	neganeace	rui ses.		
	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	CSU
	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	

Work Experience in Business

Recommended Electives:

BUSM 81

	<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
1	

Business: Retail Management Accounting and Management Department Major 20509

This program 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. Completion of this program aids the student's search for an entry-level job in retail management.

Requirements for the Major Required courses:

	Total Units	33.0	
BUSS 50	Retail Store Management and Merchandising	3.0	
	<u>or</u>		
FASH 62	Retail Store Management and Merchandising	3.0	(20
FASH 62			CSU
CISB 15	Microcomputer Applications	4.0	CSU,UC
BUSS 36	Principles of Marketing	3.0	CSU
BU3U 20	Oral Communications for Business	3.0	
BUSO 25		3.0	CSU
BUSM 62 BUSO 25	Human Resource Management Business Communications		CCII
DUCM CO	and Management	2.0	
BUSM 61	Business Organization	3.0	CSU
BUSM 60	Human Relations in Business	3.0	CSU
BUSA 11	Fundamentals of Accounting	3.0	
BUSA 72	Bookkeeping - Accounting	5.0	
	or		
BUSA 7	Principles of Accounting - Financial	5.0	CSU,UC

Chemical Laboratory Technician Biological Sciences Department Major 20950

This program provides theoretical and technical training 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 options and emphasizes development of analytical skills, instrument proficiency, critical thinking, and trouble-shooting of experimental designs and outcomes.

Requirements for the Major Required courses:			
BUSM 10	Principles of Continuous Quality Improvement	3.0	
CHEM 20	Introductory Organic and Biochemistry	5.0	CSU,UC
CHEM 50	General Chemistry I	5.0	CSU,UC
CHEM 51	General Chemistry II	5.0	CSU,UC
CHEM 60	Quantitative Chemical Analysis	5.0	CSU,UC
CHEM 75	Instrumental Analysis	5.0	
CHMT 1	Introduction to Chemical Laboratory Technology	3.0	
CHMT 8	Work Experience in Chemical Technology	1.0	
CHMT 9	Work Experience in Chemical Technology	2.0	
PLUS			
Select six (6) units from:		
CHMT 5	Elementary Principles of Chemical Processing	2.0	CSU
MICR 22	Microbiology	4.0	CSU,UC
PHIL 12	Ethics <u>or</u>	3.0	CSU,UC
PHIL 12H	Ethics - Honors	3.0	CSU,UC
SPCH 26	Interpersonal Communication <u>or</u>	3.0	CSU,UC
SPCH 26H	Interpersonal Communication - Honors	3.0	CSU,UC
	Total Units	40.0	

Child Development Child Development 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 eleven certificates are offered. 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:

CHLD 1	Child, Family and Community	3.0	CSU,UC
CHLD 5	Principles/Practices	3.0	CSU
	in Child Development Programs		

Note: These courses are acceptable for the Child			
	Total Units	28.0	
CHLD 91	Settings Early Childhood Development Field Work	1.0	
CHLD 84	Guidance and Discipline in Child Development	1.0	
CHLD 69	Early Childhood Development Field Work Seminar	2.0	
CHLD 68	Children With Special Needs	3.0	CSU
CHLD 67L	Early Childhood Development Participation Laboratory	1.0	CSU
CHLD 67	Early Childhood Development Participation	2.0	CSU
CHLD 66L	Early Childhood Development Observation Laboratory	1.0	CSU
CHLD 66	Early Childhood Development Observation	2.0	CSU
CHLD 64	Health, Safety and Nutrition of Young Children	3.0	
CHLD 10H	<u>or</u> Child Growth and Development - Honors	3.0	CSU,UC
CHLD 10	Child Growth and Development	3.0	CSU,UC
CHLD 6	Survey of Child Development Curriculum	3.0	CSU

Note: These courses are acceptable for the Child Development requirements leading to the Child Development Permit.

Recommended Electives:

CHLD 50	${\it Multicultural Education: Anti-Bias Perspective}$
CHLD 51	Early Literacy in Child Development
CHLD 61	Language Arts & Art Media for Young Children
CHLD 62	Music and Motor Development for Young Children
CHLD 63	Creative Sciencing and Math for Young Children
CHLD 71A	Administration of Child Development Programs
CHLD 71B	Management/Marketing/Personnel for ECD Programs
CHLD 72	Teacher, Parent, and Child Relationships
CHLD 73	Infant/Toddler Care and Development

Commercial Flight

Aeronautics, Transportation and Travel 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:

	Total Units	27.0	
TRAN 17	Air Transportation	3.0	CSU
AERO 30	Instrument Ground School	3.0	CSU
AERO 29	Federal Aviation Regulations	2.0	CSU
AERO 28	Aircraft and Engines	3.0	CSU
AERO 27	Aviation Safety and Human Factors	3.0	CSU
AERO 26	Aviation Weather	3.0	CSU
AERO 25	Commercial Pilot Ground Schoo	3.0	CSU
AERO 24	Navigation	3.0	CSU
AERO 23	Primary Pilot Ground School	4.0	CSU

Recommended Electives:

AERO 40	Flight
AERO 40L	Flight Laboratory
AERO 41	Basic Flight Simulator Laboratory
AERO 58	Flight Instructor Ground School
AIRT 41	Aircraft Recognition and Performance
CISB 11	Computer Information Systems

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

Computer and Networking Technology

Electronics and Computer Technology Department Major 20725

The Computer and Networking Technology Major 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, 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 worldwiderecognized industry benchmarks for the computer and networking technician. Multi-level certificates are also available.

Requirements for the Major Required courses:

CNET 50	PC Servicing	4.0	
CNET 52	PC Operating Systems	4.0	
CNET 54	PC Troubleshooting	4.0	
CNET 56	Computer Networks	4.0	
CNET 60	A+ Certification Preparation	3.0	
CNET 62	Network+ Certification Preparation	3.0	
CNET 64	Server + Certification Preparation	3.0	
CNET 66	Security + Certification Preparation	3.0	
ELEC 11	Technical Applications in Microcomputers <u>or</u>	3.0	CSU
CISB 15	Microcomputer Applications	4.0	CSU,U
ELEC 50A	Electronic Circuits (DC)	4.0	CSU
ELEC 50B	Electronic Circuits (AC)	4.0	CSU
ELEC 56	Digital Electronics	4.0	CSU
TECH 60	Customer Relations for the Technician	1.0	

Recommended Electives:

ELEC 51	Electronic Devices
ELEC 74	Microprocessor Systems

Total Units

44.0 - 45.0

Computer Graphics Design/Photography

Commercial and Entertainment Arts 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:

	• • • • • • • • • • • • • • • • • • • •		
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	
PH0T 10	Beginning Photography	3.0	CSU,UC
PHOT 17	Photocommunication	3.0	
	Total Units	27.0	

Recommended Electives:

AHIS 1	Understanding the Visual Arts
	<u>or</u>
ARTB 1	Understanding the Visual Arts
COMP 10	Operating the Macintosh Computer
GRAP 24	Work Experience in Computer Graphics
PHOT 1	Laboratory Studies:
	Black and White Photography
PHOT 2	Laboratory Studies: Color Photography
PHOT 4	Digital Cameras and Composition
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 areas 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 Reauired courses:

41 Novell Netware Systems Administration	ecurity 4.0 4.0	CSU CSU
41 Novell Netware Systems	•	
	ecurity 4.0	CSU
34 LINUX Networking and Se		
31 Linux Operating System	4.0	CSU
21 Windows Operating Syste	em 4.0	CSU
11 Computer Information Sy	stems 3.5	CSU,UC
t one (1) course from:		
Linked Service Learning	1.0	CSU
Network Security and Fire	ewalls 4.0	CSU
,		CSU
and Countermeasures		
21 Network Vulnerabilities	4.0	CSU
,	4.0	CSU
	4.0	CSU
,		
11 Telecommunications/		CSU
2	Networking Fundamenta Microsoft NT Network System Administration Cisco CCNA Networking Fundamentals and Routir Network Vulnerabilities and Countermeasures Network Analysis and NIE Network Security and Fire Linked Service Learning Cone (1) course from: Computer Information Sy Mindows Operating System Linux Operating System	Networking Fundamentals Microsoft NT Network System Administration Cisco CCNA Networking Network Vulnerabilities And Countermeasures Network Analysis and NIDS Network Security and Firewalls Linked Service Learning Computer Information Systems Mindows Operating System Microsoft NT Network A.0

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 areas 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 Required core courses:

nequinea co	ne counses.		
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	
	<u>or</u>		
CISP 21	Programming in Java	4.0	CSU,UC
Plus the fol	lowing courses:		
CISD 11	Database Management - Microcomputers	4.0	CSU
CISN 21	Windows Operating System	4.0	CSU
CISP 31	Programming in C++	4.0	CSU,UC
CISP 34	Advanced C++ Programming	4.0	CSU,UC
	Total Units	40.0	

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 areas 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.

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

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 foll	lowing courses:		
CISD 11	Database Management - Microcomputers	4.0	CSU
CISD 14	Advanced Database Management - Microcomputers	4.0	
	<u>or</u>		
CISD 21	SQL Server	4.0	
CISD 31	Database Management	4.0	
CISD 32	Oracle Forms and Reports	4.0	
CISD 40	Database Design	2.0	
CISD 50	Web Based Applications With PL/SQL	4.0	CSU
	Total Units	46.0	

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 areas 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 deisigned 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

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:

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

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 areas 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.

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:

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 fo	llowing courses:		
CISD 11	Database Management - Microcomputers	4.0	CSU
CISN 21	Windows Operating System	4.0	CSU
CISP 11	Basic Programming	4.0	CSU,UC
CISP 14	Advanced Basic Programming	4.0	CSU,UC
	Total Units	40.0	

Construction Inspection Architecture and Engineering **Design Department**

Major 20920

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 Reauired courses:

ARCH 12	Architectural Materials and Specifications	3.0	CSU	
ARCH 14	Building and Zoning Codes	3.0		
	bullating and Lonning codes	5.0		
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	3.0		
	Inspection			

18.0

Recommended Electives:

Total Units

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 delinguency. 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

nequireaco	Jui ses.		
ADJU 68	Administration of Justice	3.0	
	Report Writing		
CORS 10	Introduction to Correctional	3.0	CSU
	Sciences		
CORS 15	Control and Supervision	3.0	
	of the Offender		
CORS 20	Correctional Law	3.0	
CORS 25	Probation and Parole	3.0	
CORS 30	Ethnic Relations in Corrections	3.0	
CORS SU	Ethnic Relations in Corrections	5.0	

Select four (4) courses from: ADJU 1 The Administration 3.0 CSU,UC of Justice System Principles and Procedures ADIU 2 3.0 CSU of the Justice System ADJU 20 Principles of Investigation 3.0 CSU ADJU 38 Narcotics Investigation 3.0 ADJU 59 3.0 CSU Gangs in the Community/ Corrections Interviewing and Counseling CORS 35 3.0 in Corrections

Crime and Delinguency

The Violent Offender

Recommended Elections

Total Units

CORS 40

CORS 45

Kecomm	Recommended Electives:			
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			

3.0

3.0

30.0

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.

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 Development	3.0	CSU,UC
	<u>or</u>		
PSYC 14	Developmental Psychology	3.0	CSU,UC
CHLD 68	Children With Special Needs	3.0	CSU

Programs Leading to an Associates Degree

EDUC 10	Introduction to Education	3.0	CSU,UC
EDUC 16	Aspects and Issues	3.0	CSU,UC
	in Teaching Service Learning		
ENGL 1A	Freshman Composition	3.0	CSU,UC
MATH 71	Intermediate Algebra	5.0	
	Total Units	23.0	

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

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:

	Total Units	43.0	
TECH 60	Customer Relations for the Technician	1.0	
ELEC 74	Microprocessor Systems	4.0	CSU
	and Fabrication		
ELEC 61	Electronic Assembly	2.0	CSU
ELEC 56	Digital Electronics	4.0	CSU
ELEC 55	Microwave Communications	4.0	
ELEC 54B	Industrial Electronic Systems	3.0	CSU
ELEC 54A	Industrial Electronics	4.0	CSU
ELEC 53	Communications Circuits	4.0	
ELEC 51	Electronic Devices	4.0	CSU
ELEC 50B	Electronic Circuits (AC)	4.0	CSU
ELEC 50A	Electronic Circuits (DC)	4.0	CSU
ELEC 12	Computer Simulation and Troubleshooting	2.0	
	in Microcomputers		-
ELEC 11	Technical Applications	3.0	CSU

Recommended Electives:

CISP 11	Programming in Visual Basic
EDT 11	Technical Engineering Drawing I
ELEC 62	Advanced Surface Mount Assembly and Rework
ELEC 76	Radio Telephone Communications
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.

Requirements for the Major Required courses:

	Total Units	39.0
EMS 80	Paramedic Field Externship	8.5
EMS 70	Paramedic Clinical Internship	3.5
EMS 60	EMS Theory for Paramedics	8.5
EMS 50	Paramedic Skills Competency	4.5
EMS 40	Cardiology for Paramedics	5.0
EMS 30	Pharmacology for Paramedics	2.0
EMS 20	Emergency Cardiac Care for Paramedics	1.0
EMS 10	Anatomy and Physiology for Paramedics	2.0
EMS 1	Fundamentals for Paramedics	4.0

Recommended Electives:

	enaca Electives.
ADJU 1	The Administration of Justice System
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 documenting completion of 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.

- 3) 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.
-) 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 tp 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.
- 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

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 All Applicants are required to meet the Essential Functions for Success in the Paramedic 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 and carry at least 125 pounds)
- 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
- 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 decisions/actions related to end of life issues
- 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 for others.

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:

EDT 11	Technical Engineering Drawing I	3.0	CSU
EDT 12	Technical Engineering Drawing I	3.0	CSU
EDT 14	Mechanical Design	3.0	CSU
	- Geometric Dimensioning and T	oleran	icing
EDT 16	Basic CAD and Computer Applications	4.0	CSU
EDT 18	Engineering CAD Applications	4.0	CSU
EDT 20	Technical Descriptive Geometry	3.0	CSU
EDT 24	Engineering CAD 3-D Solids and Surfaces	3.0	CSU
EDT 26	Civil Engineering Technology and CAD	3.0	CSU
EDT 28	Engineering CAD 3-D Illustration/Animation	3.0	CSU
ELEC 50A	Electronic Circuits (DC)	4.0	CSU
ELEC 50B	Electronic Circuits (AC)	4.0	CSU
MFG 11	Manufacturing Processes I	2.0	CSU
	Total Units	39.0	

Recommended Electives:

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.mtdac.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 or	1.0	
AGAG 60	Work Experience in Agriculture or	2.0	
AGAG 61	Work Experience in Agriculture or	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

CISB 15	Microcomputer Applications	4.0 0 - 38.0	CSU,UC
AGOR 71 AGOR 72	Landscape Construction Fundamentals Landscape Hardscape Applicat	3.0 ions 3.0	CSU
AGOR 57	Power Train Repair	3.0	

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:

neguneu co	urses.		
BUSA 7	Principles of Accounting - Financial	5.0	CSU,UC
	<u>or</u>		
BUSA 72	Bookkeeping - Accounting	5.0	
BUSM 20	Principles of Business	3.0	CSU,UC
BUSM 60	Human Relations in Business	3.0	CSU
BUSM 66	Small Business Management	3.0	CSU
BUSO 25	Business Communications	3.0	CSU
BUSR 50	Real Estate Principles	3.0	CSU
BUSR 51	Legal Aspects of Real Estate	3.0	
BUSR 53	Real Estate Finance	3.0	
BUSR 76	Escrow Procedures I	3.0	
BUSR 77	Escrow Procedures II	3.0	
CISB 15	Microcomputer Applications	4.0	CSU,UC
COMP 1	Computer Keyboarding	4.0	CSU
	Total Units	40.0	

Recomm	ended Electives:
BUSA 8	Principles of Accounting - Managerial
BUSL 18	Business Law
	<u>or</u>
BUSL 18H	Business Law - Honors
BUSM 62	Human Resource Management
BUSO 5	Business English
BUSR 52	Real Estate Practice
	<u>or</u>
BUSR 52D	Real Estate Practice Work Experience
BUSR 57	Income Tax Aspects of Real Estate Investments
PSYC 1A	Introduction to Psychology
	<u>or</u>
PSYC 1AH	Introduction to Psychology - Honors

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 Development	3.0	CSU,UC
CHLD 10H	<u>or</u> Child Growth and Development - Honors	3.0	CSU,UC
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	3.0	CSU
	<u>or</u>		
BUSA 71	Financial Planning	3.0	CSU
ID 100	Fundamentals of Interior Design	3.0	CSU
NF 20	Principles of Foods With Lab	3.0	CSU
	<u>or</u>		
NF 62	Meal Management	3.0	CSU
NF 25	Essentials of Nutrition	3.0	CSU,UC
	<u>or</u>		
NF 25H	Essentials of Nutrition - Honors	3.0	CSU,UC
NF 28	Cultural and Ethnic Foods	3.0	CSU,UC
	Total Units	30.0	

Recommended Electives:

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 Reauired courses:

negun cu co	W. 3 C 3.		
FASH 8	Introduction to Fashion	3.0	CSU
FASH 9	History of Costume and Fashion	3.0	CSU
FASH 10	Clothing Construction I	3.0	CSU
FASH 12	Clothing Construction II	3.0	CSU
FASH 15	Fashion Strategies	3.0	CSU
FASH 17	Textiles	3.0	CSU,UC
FASH 20	Illustration for Fashion	3.0	
	and Costume Design		
FASH 21	Patternmaking I	3.0	CSU
FASH 22	Fashion Design By Draping	3.0	
FASH 23	Patternmaking II	3.0	
FASH 30	Fashion Design and Product	3.0	
	Development I		
FASH 31	Fashion Design and Product	3.0	
	Development II		
FASH 32	Fashion Design and Product	3.0	
	Development III		
	Total Units	39.0	

Recommended Electives:

	Cilaca Electives.
FASH 26	Fashion Computer Assisted Design
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 92 may be taken two times for credit.

Fashion Merchandising

Consumer Science and Design Technologies Major 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 Required courses:

Inducation to Feeling

	Total Units	27.0	
FASH 66	Visual Merchandising Display	3.0	CSU
BUSS 33	<u>or</u> Advertising and Promotion	3.0	CSU
FASH 63	Advertising and Promotion	3.0	CSU
BUSS 50	<u>or</u> Retail Store Management and Merchandising	3.0	CSU
FASH 62	Retail Store Management and Merchandising	3.0	CSU
FASH 30	Fashion Design and Product Development I	3.0	
FASH 17	Textiles	3.0	CSU,UC
FASH 15	Fashion Strategies	3.0	CSU
FASH 10	Clothing Construction I	3.0	CSU
FASH 9	History of Costume and Fashion	1 3.0	CSU
FASH 8	Introduction to Fashion	3.0	CSU

Recommended Electives:

BUSS 36	Principles of Marketing
FASH 25	Fashion Computer - Assisted Drawing
FASH 90	Field Studies
FASH 91	Field Studies - New York
FASH 92	Field Studies - Fashion Capitals
FCS 41	Life Management
FCS 91	Work Experience in Family
	and Consumer Sciences
FCS 92	Work Experience in Family
	and Consumer Sciences
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FASH 90, FASH 91 and FASH 92 may be taken two times for credit.

Fire Technology **Fire Technology Department** Major 22105

The Fire Science major has been developed to offer preemployment 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	

PLUS

2.0 (())

Soloct two (2) courses from

Select two (z) courses iroin:		
EMT 90	Emergency Medical Technician I	10.0	
FIRE 7	Fire Fighting Tactics and Strategy	3.0	CSU
FIRE 8	Fire Company Organization and Management	3.0	CSU
FIRE 9	Fire Hydraulics	3.0	CSU
FIRE 10	Arson and Fire Investigation	3.0	CSU
FIRE 11	Fire Apparatus and Equipment	3.0	CSU
FIRE 12	Wildland Fire Control	4.0	CSU
FIRE 86	Basic Fire Academy	12.0	
PE-F 53	Physical Training for the Basic Fire Academy	2.5	CSU

Total Units 23.5 - 39.0

Recommended Electives:		
FIRE 20	Fire Instructor 1A	
FIRE 21	Fire Instructor 1B	
FIRE 30	Fire Management 1	
FIRE 40	Fire Prevention 1A	
FIRE 41	Fire Prevention 1B	
FIRE 50	Fire Command 1A	
FIRE 51	Fire Command 1B	
FIRE 60	Fire Investigation 1A	
FIRE 61	Fire Investigation 1B	
PE-F 50	Physical Skills Preparation for Administration of Justice and Fire Technology	
	<u>or</u>	
PE-F 51	Agility Testing Preparation for Administration of Justice and Fire Technology	
	<u>or</u>	
PE-F 52	$Fitness\ and\ Conditioning\ for\ Administration\ of$	
	Justice, Fire Technology, and Forestry	
SPAN 66	Spanish for Fire and Police Personnel	

yuneu courses.					
RE 1	Fire Protection Organization	3.0	CSU		
RF 2	Fire Prevention Technology	3.0	CSU		

Fire Technology - Administration Fire Technology Department Major 22106

The Fire Science major has been developed to offer preemployment 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:

	Total Units	20.5	
FIRE 30	Fire Management 1	2.0	
	and Management		
FIRE 8	Fire Company Organization	3.0	CSU
FIRE 1	Fire Protection Organization	3.0	CSU
CISP 11	Basic Programming	4.0	CSU,UC
CISB 11	Computer Information Systems	3.5	CSU,UC
BUSA 7	Principles of Accounting - Financial	5.0	CSU,UC

Recommended Electives:

FIRE 2	Fire Prevention Technology
FIRE 40	Fire Prevention 1A
FIRE 41	Fire Prevention 1B
SPAN 66	Spanish for Fire and Police Personnel

Fire Technology - Administrative Communications Fire Technology Department Major 22107

The Fire Science major has been developed to offer preemployment 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	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 8	Fire Company Organization and Management	3.0	CSU

_	Total Units	18.5
	T 4 100 %	40.5
FIRE 21	Fire Instructor 1B	2.0
FIRE 20	Fire Instructor 1A	2.0

1100011111	iciaca Licetives.
FIRE 2	Fire Prevention Technology
FIRE 30	Fire Management 1
FIRE 40	Fire Prevention 1A
FIRE 41	Fire Prevention 1B
SPAN 66	Snanish for Fire and Police Personnel

Fire Technology - Administrative Law Fire Technology Department Major 22108

The Fire Science major has been developed to offer preemployment 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	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 Major 22109

The Fire Science major has been developed to offer preemployment 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 co	ourses:			
	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		
	Plus the fol	lowing 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 3	5.0		
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Recommended 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 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 - Fire Prevention Fire Technology Department Major 22110

The Fire Science major has been developed to offer preemployment 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.

Requiren	nents for the Major		
Required co	ourses:		
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	

Recommended Electives:

EMT 90	Emergency Medical Technician I
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 - Fire Training Fire Technology Department Major 22111

The Fire Science major has been developed to offer preemployment 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

Programs Leading to an Associates Degree

	Total Units	33.0	
FIRE 30	Fire Management 1	2.0	
FIRE 24	Fire Instructor 2c	2.0	
FIRE 23	Fire Instructor 2b	2.0	
FIRE 22	Fire Instructor 2a	2.0	
FIRE 21	Fire Instructor 1B	2.0	
FIRE 20	Fire Instructor 1A	2.0	
FIRE 7	Fire Fighting Tactics and Strategy	3.0	CSU
FIRE 6	Hazardous Materials/ICS	3.0	

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
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 preemployment 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:

negunea ce	arses.		
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	
Recomm	ended Electives:		
EMT 90	Emergency Medical Technician	I	
FIRE 10	Arson and Fire Investigation		
FIRE 30	Fire Management 1		
FIRE 60	Fire Investigation 1A		
FIRE 61	Fire Investigation 1B		
PE-F 50	Physical Skills Preparation for La Enforcement and Fire Science	aw	
PE-F 51	Agility Testing Preparation for L Enforcement and Fire Science	.aw	
PE-F 52	Fitness and Conditioning for Lar Fire Science and Forestry	w Enfo	rcemen
SPAN 66	Spanish for Fire and Police Person	onnel	

Floral Design Agricultural Sciences Department Maior 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:

Required co	ourses:		
AGAG 1	Food Production, Land Use and Politics - A Global Perspe	3.0 ctive	CSU,UC
AGOR 1	Horticultural Science	3.0	CSU
AGOR 2	Plant Propagation/	3.0	CSU
	Greenhouse Management		
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	
AGOR 29	Ornamental Plants - Herbace	ous 3.0	CSU,UC
AGOR 30	Ornamental Plants	3.0	CSU,UC
	- Trees and Woody Shrubs		
AGOR 32	Landscaping and Nursery Management	3.0	CSU
AGOR 91	Work Experience	1.0	
	in Nursery Operations		
	<u>or</u>		
AGOR 92	Work Experience	2.0	
	in Nursery Operations		
ACOD 03	<u>Or</u>	2.0	
AGOR 93	Work Experience in Nursery Operations	3.0	
	, ,		
AGOR 94	<u>or</u> Work Experience	4.0	
AUUN 94	in Nursery Operations	4.0	
CISB 15	Microcomputer Applications	4.0	CSU,UC
2.50 15			230,00
1	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	5.0	CSU,UC
	<u>or</u>		
BUSA 72	Bookkeeping - Accounting	5.0	
BUSL 18	Business Law	3.0	CSU,UC
	<u>or</u>		
BUSL 18H	Business Law - Honors	3.0	CSU,UC

Histols	Histologic Technician Training					
	Total Units	4	2.0			
COMP	Computer Applications	0.5 -	4.0	CSU		
CISB	Computer Information Systems: Beginning	2.0 -	4.0	CSU,UC		
CICD	Merchandising and Marke	-	4.0	cciriic		
BUSS	Business: Sales,	1.0 -	4.0	CSU		
BUSM	Business: Management	1.0 -	4.0	CSU,UC		
BUSL	Business: Law	1.0 -	3.0	CSU,UC		
BUSC	Business: Economics		3.0	CSU,UC		
BUSA	Business: Accounting	1.0 -	5.0	CSU,UC		
PLUS Select six (6) units from:					
CISB 15	Microcomputer Applicatio	ns	4.0	CSU,UC		
BUSS 36	Principles of Marketing		3.0	CSU		
BUSO 25	Business Communications		3.0	CSU		
BUSO 5	Business English		3.0			
BUSM 62	Human Resource Manage	ment	3.0			
DOSINIOI	and Management		5.0	CJU		
BUSM 61	Business Organization	C33	3.0	CSU		
BUSM 20 BUSM 60	Principles of Business Human Relations in Busin	000	3.0	CSU,UC		
DUCM 20	Quality Improvement		2.0	CCILLIC		
BUSM 10	Principles of Continuous		3.0			

Histologic Technician Training Biological Sciences Department Major 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.

Requirements for the Major Required courses:

ANAT 10B	Introductory Human Physiology	4.0	CSU,UC
	<u>or</u>		
ANAT 36	Human Physiology	5.0	CSU,UC
ANAT 35	Human Anatomy	5.0	CSU,UC

Chemistry for Allied Health Majors	4.0	CSU,UC
<u>or</u>		
General Chemistry I	5.0	CSU,UC
Introduction to Histotechnology	1.0	
Scientific Basics for Histologic Technicians	3.0	
Histology	3.0	
Beginning Histotechniques	4.0	
Advanced Histotechniques	4.0	
Histochemistry/ Immunohistochemistry	4.0	
Microbiology or	4.0	CSU,UC
Principles of Microbiology	5.0	CSU,UC
(4) units from:		
Work Experience in Histotechnology	1.0	
Work Experience in Histotechnology	2.0	
Work Experience in Histotechnology	3.0	
Work Experience in Histotechnology	4.0	
	Health Majors or General Chemistry I Introduction to Histotechnology Scientific Basics for Histologic Technicians Histology Beginning Histotechniques Advanced Histotechniques Histochemistry/ Immunohistochemistry Microbiology or Principles of Microbiology or Principles of Microbiology Work Experience in Histotechnology Work Experience	Health Majors or General Chemistry I 5.0 Introduction to Histotechnology 1.0 Scientific Basics for 3.0 Histologic Technicians Histology 3.0 Beginning Histotechniques 4.0 Advanced Histotechniques 4.0 Immunohistochemistry 4.0 Immunohistochemistry 4.0 or Principles of Microbiology 5.0 4) units from: Work Experience 1.0 in Histotechnology Work Experience 2.0 in Histotechnology Work Experience 3.0 in Histotechnology Work Experience 3.0 in Histotechnology Work Experience 4.0

Horse Ranch Management Agricultural Sciences Department Major 20102

Total Units

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.

40.0 - 43.0

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 or counselor ot 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 or	1.0	
AGAG 60	Work Experience in Agriculture or	2.0	
AGAG 61	Work Experience in Agriculture or	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	4.0	CSU,UC
AGLI 18	Horse Ranch Management	4.0	CSU
AGLI 19	Horse Hoof Care	2.0	CSU
AGLI 20	Horse Behavior and Training	2.0	
AGLI 96	Animal Sanitation and Disease Control	3.0	CSU
AGLI 97	Artificial Insemination of Livestock	2.0	

PLUS

Select six (6) units from:

	Total Units	33.0 - 3	6.0	
BUSM 66	Small Business Manage	ment	3.0	CSU
BUSM 20	Principles of Business		3.0	CSU,UC
	Fundamentals			
AGOR 71	Landscape Construction	ı	3.0	CSU
AGOR 53	Small Engine Repair I		3.0	CSU
AGHE 84A	Applied Animal Health P	rocedures	1.0	

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. (Note: HRM 65 is a required course in the Cal Poly program.) Students wishing to transfer should consult with Hospitality and Restaurant Management faculty or counselor or advisor to discuss transfer options.

3.0 (511

Requirements for the Major Required courses: HRM 51 Introduction to Hospitality

ı	ו כ ואוחח	introduction to nospitality	5.0	COU
	HRM 52	Food Safety and Sanitation	1.5	CSU
	HRM 53	Dining Room Service Management	3.0	CSU
	HRM 54	Commercial Food Preparation	3.0	CSU
	HRM 56	Management of Hospitality Personnel and Operations	3.0	CSU
	HRM 57	Restaurant Cost Control	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
	PLUS			
	Select three	(3) units from:		
	HRM 61	Menu Planning	3.0	CSU
	HRM 62	Catering	3.0	CSU
	HRM 93	Work Experience	3.0	CSU
		in Restaurant/Hospitality		
	NF 20	Principles of Foods With Lab	3.0	CSU
		Total Units 2	28.5	

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 Management Degree is 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.

Requirements for the Major Required courses:

	Total Units	28.0	
CISB 15	Microcomputer Applications	4.0	CSU,UC
BUSO 25	Business Communications	3.0	CSU
BUSM 62	Human Resource Management	3.0	
BUSM 61	Business Organization and Management	3.0	CSU
BUSM 60	Human Relations in Business	3.0	
BUSM 20	Principles of Business	3.0	CSU,UC
BUSL 19	Advanced Business Law	3.0	CSU,UC
BUSA 70	Payroll and Tax Accounting	3.0	
ANTH 22	General Cultural Anthropology	3.0	CSU,UC

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 Reauired courses:

negan ca co	ui sesi		
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	4.0	CSU,UC
	and Computer 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

Programs Leading to an Associates Degree

	.				
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	1.0			
	<u>and</u>				
ID 240B	Interior Design Internship	1.0			
	Total Units	50.0			
Recommended Electives:					

ARCH 23	Architectural Presentations
ARTD 15A	Drawing: Beginning
BUSA 72	Bookkeeping - Accounting
FCS 41	Life 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	3.0	CSU
	Drawings - I		
ARCH 16	Basic CAD	4.0	CSU,UC
	and Computer Application		
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	
D	and all Elections		

Recommended Electives:

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.

Requirements for the Major Required courses

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

CHIN 1 FRCH 1	Beginning Chinese Elementary French Elementary German	4.0 4.0	CSU,UC CSU,UC	l
BUSS 70 CHIN 1	International Marketing Concepts Beginning Chinese	4.0	CSU,UC	
	(1) course from:			
BUSM 66 BUSS 36	Small Business Management Principles of Marketing	3.0	CSU CSU	l
BUSM 61	and Importing Business Organization and Management		CSU	
BUSM 51 BUSM 52	Principles of International Business Principles of Exporting	3.0	CSU	
ANTH 22	General Cultural Anthropology		CSU,UC	

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 Major 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 tansferability of courses.

Requirements for the Major Reauired courses:

ADJU 1	The Administration	3.0	CSU,UC
	of Justice System		
ADJU 2	Principles and Procedures	3.0	CSU
	of the Justice System		
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	3.0	
	Report Writing		

PLUS

Select four (4) courses from:

	Total Units	30.0	
CORS 45	The Violent Offender	3.0	
CORS 40	Crime and Delinquency	3.0	
CORS 30	Ethnic Relations in Corrections	3.0	
ADJU 74	Vice Control	3.0	
	Community/Corrections		
ADJU 59	Gangs in the	3.0	CSU
ADJU 38	Narcotics Investigation	3.0	
ADJU 20	Principles of Investigation	3.0	CSU
ADJU 13	Concepts of Traffic Services	3.0	
ADJU 6	Concepts of Enforcement Services	3.0	

Recommo	ended Electives:
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

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 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.

PREREQUSITE 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 (3) semester units with a minimum grade of C. 5. PSYC 1A Introduction to Psychology. 6. CHLD

10 Child Growth and Development <u>or</u> PSYC 14 Developmental Psychology

Non-course requirements: 1. 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. 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 California Licensed Vocational Nurse license. 6. 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 8. Criminal background check 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 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 Check, and drug testing prior to the start of class.)

Requirements for Nursing Required courses:

NILIDC 4	Matawaitu Nuwina	2.0	CCII
NURS 4	Maternity Nursing	5.0	CSU
NURS 5	Psychiatric Nursing	3.0	CSU
NURS 6	Pediatric Nursing	3.0	CSU
NURS 7	Medical-Surgical Nursing:		CSU
	Nutrition/Elimination/Surgical A	sepsis	;
NURS 8	Medical-Surgical Nursing:	5.0	CSU
	Circulation and Oxygenation		
NURS 9	Leadership in Nursing	1.0	CSU
NURS 10	Medical-Surgical Nursing:	4.0	CSU
	Integration/Regulation		
NURS 11	Preceptorship in Nursing	2.0	CSU
	Total Units	28.0	
Requiren	nents for the Major		
ANAT 35	Human Anatomy, and	5.0	CSU, U
NAT 36	Human Dhyciology	5.0	CSU, U
	Human Physiology	5.0	(30,0
	<u>or</u>	5.0	(30,0
ANAT 10A	, ,,	4.0	
ANAT 10A	<u>or</u>		,,,
ANAT 10A	<u>or</u> Introductory Human Anatomy	4.0	CSU, U

MICR 1	Principles of Microbiolog	ју	5.0	CSU, UC
	<u>or</u>			
MICR 22	Microbiology		4.0	CSU, UC
ENGL 1A	Freshman Composition		3.0	CSU, UC
CHLD 10	Child Growth and Develo	pment	3.0	CSU, UC
	<u>or</u>			
PSYC 14	Developmental Psychological	ogy	3.0	CSU, UC
PSYC 1A	Introduction to Psycholo	gy	3.0	CSU, UC
SPCH 1A	Public Speaking		3.0	CSU, UC
	Total Units	24.0 - 2	27.0	

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 Counseling and Advising Services 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 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:

- once a student has completed all course prerequisites, the student will then apply to the Nursing Department on an appointment basis.
- Students who have completed coursework at other colleges must bring the following information to their eligibility appointment:
 - 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 coursese syllabus;

- 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).
- Due to specific deadlines for International Student applications, please inform the Counselor/Educational Advisor that this applies to you.

c) All students will need to bring official proof of high

school graduation, GED, or college graduation from an accredited institution in the United States.

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, rac sexual orientation, psychological and physical disabilities, and under a wide variety of circumstances
- Handle emergency or crisis situations
- Subject to many interruptions
- Requires decisions/actions related to end of life issues
- 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.

Microcomputer Applications

3.0 CSU.UC

Requirements for the Major Required courses:

AGAB 20

AGAD 20	in Agriculture	3.0	C30,0C
AGAG 1	Food Production, Land Use and Politics - A Global Perspective	3.0	CSU,UC
AGAG 59	Work Experience in Agriculture	1.0	
	<u>or</u>		
AGAG 60	Work Experience in Agriculture	2.0	
	<u>or</u>		
AGAG 61	Work Experience in Agriculture	3.0	
	<u>or</u>		
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 Selection	2.0	CSU,UC
AGLI 96	Animal Sanitation	3.0	CSU
	and Disease Control		
PLUS			
Select six (6) 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 Management	3.0	CSU
BUSS 35	Professional Selling	3.0	CSU

Principles of Marketing

Total Units

Manufacturing Technology Aircraft Maintenance Tech & Manufacturing Dept. 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 Manufacturing	2.0	
MFG 38	MasterCAM I	2.0	CSU
MFG 38B	Advanced MasterCAM	2.0	CSU
MFG 39	SurfCAM I	2.0	CSU
MFG 39B	SurfCAM II	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 Contro		CSU erations

PLUS

3.0 CSU

43.0 - 46.0

Select two (2) courses from:

	Total Units	28.0	
WELD 40	Introduction to Welding	2.0	CSU
MFG 27	Autodesk Inventor	2.0	
MFG 25	Advanced Parametric Solid Modeling for Manufacturing	2.0	
	(2) courses from.		

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.

Requirements for the Major Required courses:

- Financial

or

Principles of Accounting

BUSA 7

BUSC 17

BUSM 60

BUSO 5

	<u></u>		
BUSA 72	Bookkeeping - Accounting	5.0	
BUSM 20	Principles of Business	3.0	CSU,UC
BUSM 61	Business Organization	3.0	CSU
	and Management		
BUSO 25	Business Communications	3.0	CSU
BUSS 35	Professional Selling	3.0	CSU
BUSS 36	Principles of Marketing	3.0	CSU
BUSS 70	International Marketing Concept	s 3.0	
BUSS 85	Special Issues in Marketing	2.0	
CISB 15	Microcomputer Applications	4.0	CSU,UC
PLUS			
Select one (1) course from:		
BUSC 1A	Principles of Economics - Macroeconomics	3.0	CSU,UC
	<u>or</u>		
BUSC 1AH	Principles of Economics - Macroeconomics - Honors	3.0	CSU,UC
BUSC 1B	Principles of Economics - Microeconomics	3.0	CSU,UC
	<u>or</u>		
BUSC 1BH	Principles of Economics	3.0	CSU,UC
	- Microeconomics - Honors		
	Microcconomics Honors		

Mental Health Technology - Psychiatric Technician

Business English

Total Units

Applied Business Statistics

Human Relations in Business

Psychiatric Technician 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:

Introduction to Interviewing

3.0

MENT 40

5.0 CSU,UC

3.0 CSU,UC

3.0 CSU

3.0

32.0

	Total Units	53.0	
PSYC 1A	Introduction to Psychology	3.0	CSU,UC
MENT 82	Work Experience in Mental Health Technology	2.0	
	for Psychiatric Technicians	0.0	
MFNT 73T	for Psychiatric Technicians Clinica Psychiatric Nursing	al 6.0	
MENT 73L	Psychiatric Nursing	5.0	
MENT 72L	Nursing Care of the Developmentally Disabled Perso	5.0 n - Cli	nical
MENT 701	Developmentally Disabled Perso		
MENT 72	Nursing Care of the	7.0	
MENT /UL	Introduction to Psychiatric Technology Clinical Technicians	2.0	
MENT 70L	Technology	2.0	
MENT 70	Introduction to Psychiatric	1.5	
MIEN I S&L	Advanced Medical - Surgical Nursing for Psychiatric Technicial	1.5 ns Clir	nical
MENT 58L	Nursing and Pharmacology for P		
MENT 58D	Advanced Medical - Surgical	4.0	
MENT 56L	Clinical Experience	4.0	
MENT 56	Medical - Surgical Nursing for Psychiatric Technicians	9.0	
PSYC 40	Introduction to Interviewing and Counseling	3.0	
DCVC 40	<u>or</u>	2.0	
	and Counseling		

Special Information

Additional general education courses needed for completion of the Associate in Science Degree requirements are listed in the Mt. San Antonio College Catalog, but are not required to qualify the student for the California State Board Examination.

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

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.)

BUSS 36

- b) Be 18 years of age.
- c) File a college application and be accepted as a student at Mt. San Antonio College.
- d) 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.
- 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. (If you were tested at Mt. San Antonio College, the office will obtain the test scores as long as an "Application for Admission" is on file with the Admissions and Records Office.)

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 (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.
- 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.

<u>EXAMPLE:</u> 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.
- Certain convictions may prevent a candidate from being licensed as a Psychiatric Technician.
- 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. All Applicants are required to meet the Essential Functions for Success in the Mental Health Technology - Psychiatric Technician Program.

ALL APPLICANTS ARE REQUIRED TO MEET THE ESSENTIAL FUNCTIONS FOR SUCCESS IN THE MENTAL HEALTH TECHNOLOGY - PSYCHIATRIC TECHNICIAN 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 and carry at least 125pounds)
- 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
- <u>Hearing:</u> 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 decisions/actions related to end of life issues
- Exposed to products containing latex

English Language Skills:

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

Nursing Nursing Department Major 21203

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.

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.
- English 1A (Writing Composition) minimum of three
 semester units with a minimum grade of C.

Non-course requirements:

- 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
- 4. 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.qov

Requirements for Nursing Reauired courses:

nequireu co	urses.		
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:	3.5	CSU
	Locomotion/Sensation/		
	Integument/Oncology/Immuno	logy	
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:	7.0	CSU
	Nutrition/Elimination/Surgical /	Asepsis	;
NURS 8	Medical-Surgical Nursing:	5.0	CSU
	Circulation and Oxygenation		
NURS 9	Leadership in Nursing	1.0	CSU
NURS 10	Medical-Surgical Nursing:	4.0	CSU
	Integration/Regulation		
NURS 11	Preceptorship in Nursing	2.0	CSU
	Total Units	43.0	

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

 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
- 2) Eligibility for entering the Nursing admission lottery will be based on the following performance criteria:
 - A) 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;
 - Students must have eligibility to enroll in MATH 51, Elementary Algebra.
- 3) The eligibility appointment:
 - a) 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:
 - 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;
 - 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.
 - Due to specific college deadlines for International Student applications, please inform the Counselor/Educational Advisor that this applies to you.

c) 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 ELIGIBILTY VERIFICATION WILL ONLY BE MADE DURING THE FOLLOWING MONTHS:

- September 1 October 31
- March 1 April 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.

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, 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 decisions/actions related to end of life issues
- 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 for 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 Agriciultural 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 3.0 CSU, UC and Politics - A Global Perspective

AGOR 1 Horticultural Science 3.0 CSU

AGOR 2	Plant Propagation/ Greenhouse Management	3.0	CSU
AGOR 13	Landscape Design	3.0	CSU
AGOR 24	Integrated Pest Management	3.0	
AGOR 29	Ornamental Plants - Herbaceou		CSU,UC
AGOR 30	Ornamental Plants	3.0	CSU,UC
	- Trees and Woody Shrubs		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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
AGOR 91	Work Experience in Nursery Operations	1.0	
AGOR 92	<u>or</u> Work Experience	2.0	
	in Nursery Operations <u>or</u>		
AGOR 93	Work Experience in Nursery Operations	3.0	
	<u>or</u>		
AGOR 94	Work Experience	4.0	
	in Nursery Operations		
PLUS			
Select six (6) units from:		
AGOR 15	Interior Landscaping	3.0	
AGOR 25	Floral Design I	3.0	CSU
AGOR 26	Floral Design II	3.0	CSU
AGOR 40	Sports Turf Management	3.0	
AGOR 51	Tractor and Landscape Equipment Operations	3.0	CSU
AGOR 53	Small Engine Repair I	3.0	CSU
AGOR 63	Landscape Irrigation Systems Management	3.0	
AGOR 72	Landscape Hardscape Applications	3.0	CSU
AGOR 75	Urban Arboriculture	3.0	
CISB 15	Microcomputer Applications	4.0	CSU,UC
	Total Units 43.0	46.0	

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:

PLGL 30	Introduction to Paralegal/Legal	3.0	CSU
PLGL 31A	Legal Analysis and Writing	3.0	CSU
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 44	Bankruptcy Law	3.0	CSU
PLGL 45	Creditors' Rights	3.0	CSU
	Total Units	38.0	

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 subdstantive 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	3.0	CSU,UC
	<u>or</u>		
BUSL 18H	Business Law - Honors	3.0	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	CSU
PLGL 31B	Advanced Legal Analysis	3.0	CSU
	and Writing		
PLGL 33A	Civil Procedure Pretrial	3.0	CSU
PLGL 33B	Civil Procedure-Trial	3.0	CSU
	and Post-Trial		
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	2.0	
	in Paralegalism		
PLGL 39	Contract Law	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 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, THTR 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 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 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 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:

nequireu co	urses.		
PLGL 30	Introduction to Paralegal/Legal	3.0	CSU
PLGL 31A	Legal Analysis and Writing	3.0	CSU
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

	Total Units	35.0	
PLGL 49	Evidence Law	3.0	CSU
PLGL 48	Criminal Law and Procedures	3.0	CSU

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 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 43	Wills and Trusts	3.0	CSU
PLGL 42	Family Law	3.0	CSU
PLGL 41	Property Law	3.0	CSU
PLGL 39	Contract Law	3.0	CSU
T EGE 30	in Paralegalism	2.0	
PLGL 38	Employment and Ethical Issues	2.0	230
PLGL 37	Tort Law	3.0	CSU
PLGL 35B	Automated Law Office Procedure	s 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	CSU
PLGL 30	Introduction to Paralegal/Legal	3.0	CSU

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 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:

PLGL 30	Introduction to Paralegal/Legal	3.0	CSU
PLGL 31A	Legal Analysis and Writing	3.0	CSU
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 40	Landlord-Tenant Law	3.0	CSU
PLGL 41	Property 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

5.0 CSU,UC

5.0 CSU,UC

3.0 CSII

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 esential 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 abourt personnel management, budgeting and other management topics.

Requirements for the Major Required courses:

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	1.0	
	in Nursery Operations		
ACOD 03	<u>Or</u>	2.0	
AGOR 92	Work Experience	2.0	
	in Nursery Operations		
	<u>or</u>		
AGOR 93	Work Experience	3.0	
	in Nursery Operations		
	<u>or</u>		
AGOR 94	Work Experience	4.0	
	in Nursery Operations		
CISB 15	Microcomputer Applicat	ions 4.0	CSU,UC
	Total Units	44.0 - 47.0	

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.

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, counselor or 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:

neganea coarses.				
Microcomputer Applications in Agriculture	3.0	CSU,UC		
Animal Science	3.0	CSU,UC		
Animal Nutrition	3.0	CSU		
	Microcomputer Applications in Agriculture Animal Science	Microcomputer Applications in Agriculture Animal Science 3.0		

AGAN 51	Animal Handling and Restraint	3.0	CSU
AGAN 94	Animal Breeding	3.0	
AGLI 96	Animal Sanitation and Disease Control	3.0	CSU
AGPE 70	Pet Shop Management	3.0	
AGPE 71	Canine Management	3.0	
AGPE 72	Feline Management	3.0	
AGPE 73	Tropical and Coldwater	2.0	
	Fish Management		
AGPE 74	Reptile Management	2.0	
AGPE 76	Aviculture - Cage and Aviary Bird	s 3.0	
	Total Units	34.0	

Photography

Commercial and Entertainment Arts 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

Kequired co	ourses:		
GRAP 10	Photo Editing with Photoshop	3.0	
PHOT 10	Basic Digital	3.0	CSU,UC
	and Film Photography		
PHOT 11	Advanced Professional	4.0	
	Photography		
PHOT 12	Photographic Alternatives	3.0	CSU,UC
PHOT 15	History of Photography	3.0	CSU,UC
PHOT 16	Fashion Photography	3.0	
	<u>or</u>		
PHOT 18	Portraiture	3.0	
	and Wedding Photography		
PHOT 17	Photocommunication	3.0	
PHOT 20	Color Photography	3.0	
PHOT 21	Exploring Color Photography	3.0	
PHOT 28	Photography Portfolio	2.0	
	Development		
PHOT 30	Commercial	3.0	
	and Illustrative Photography		
	Total Units	33.0	

Recommended 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 White Photography
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:

Human Anatomy

Human Physiology

Nutrition for Personal Health

ANAT 35

ANAT 36

NF 10

	Total Units	28.6 - 4	1.5	
PE-S	Physical Education: Team Sports	0.5 -	1.0	CSU,UC
PE-L	Physical Education: Adaptive	0.5 -	1.0	CSU,UC
PE-I	Physical Education: Individual	0.5 -		CSU,UC
	•			,
PE-F	Aquatics Physical Education: Fitner	cc 0.1	2.5	CSU.UC
PE-A	Physical Education:	0.5 -	2.0	CSU,UC
DNCE	Dance: Activity			CSU,UC
_	(8) courses from:			
PLUS				
PE 34	Fitness for Living		3.0	CSU,UC
	of Activity/Sports - Relat		es	•
PE 19	Introduction to Care/Prev			
PE 17	Introduction to Physical Ed		3.0	CSU,UC
163	CPR/Emergency Respons	e	5.0	CJU
PE 5	<u>or</u> Advanced First Aid/		3 0	CSU
PE 3	First Aid and CPR		3.0	CSU,UC
NF 25H	Essentials of Nutrition - H	lonors		CSU,UC
	<u>or</u>			
NF 25	Essentials of Nutrition		3.0	CSU,UC
	or			
NF IU	and Wellness	aitii	3.0	(20

Psychiatric Technician to RN Nursing 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 Nursing.

Prerequsite Courses:

- 1. Human Anatomy, including a laboratory component, a minimum of four semester units.
- Human Physiology, including a laboratory component, a minimum of four semester units.
- Microbiology, including a laboratory component, a minimum of four semester units.
- English 1A (Writing Composition) minimum of three semester units with units with a minimum grade of C.
- 5. PSYC 1A Introduction to Psychology
- CHLD 10 Child Growth and Development <u>or</u> PSYC 14 Developmental Psychology

Non-course requirements:

- 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.
- Possess a current California Psychiatric Technician License.
- 6. 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.
- 8. Current Level C-Provider CPR certification
- 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 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 Nursing Required courses:

NURS 3	Medical-Surgical Nursing: Locomotion/Sensation/ Integum Oncology/Immunology		CSU
NURS 4	Maternity Nursing	3.0	CSU
NURS 6	Pediatric Nursing	3.0	
NURS 7	Medical-Surgical Nursing:	7.0	
NONS /	Nutrition/Elimination/Surgical As		
NURS 8	Medical-Surgical Nursing: Circulation and Oxygenation		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	28.5	
Requirer	ments for the Major		
ANAT 35	Human Anatomy	5.0	CSU, UC
	<u>and</u>		
ANAT 36	Human Physiology	5.0	CSU, UC
	<u>or</u>		
ANAT 10A	Introductory Human Anatomy and	4.0	CSU, UC
ANAT 10B	Introductory Human Physiology	4.0	CSU, UC
MICR 1	Principles of Microbiology	5.0	CSU, UC
	<u>or</u>		
MICR 22	Microbiology	4.0	CSU, UC
ENGL 1A	Freshman Composition	4.0	CSU, UC
	<u>or</u>		
CHLD 10	Child Growth and Development	3.0	CSU, UC
	<u>or</u>		
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
	Total Units 25.0 - 2	27.0	
NOTE A	r		

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 Counseling and Advising Services to schedule an appointment.

Seletion 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.

The eligibility appointment:

- a) Once a student has completed all course prerequisites, the student will then apply to the Nursing Department on an appointment basis.
- b) Students who have completed coursework at other colleges must bring the following information to their eligibility appointment:
 - 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;
 - Students completing college coursework outside of the 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 Office).
 - Due to specific college deadlines for International Student applications, please inform the Counseling/Educational Advisor that this applies to you.
- c) All students will need to bring official proof of high school graduation, GED, or college graduation from an accredited institution in the United States.

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 decisions/actions related to end life issues
- Exposed to products containing latex

English Language Skills:

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

Radio Broadcasting: Behind the Scenes

Commercial and Entertainment Arts Major 20606

The Radio Boradcasting 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

kequirea co	ourses:		
R-TV 01	Introduction to Broadcasting	3.0	CSU
R-TV 09	Broadcast Sales and Promotion	3.0	
R-TV 10	Radio Management	3.0	
	and Programming		
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	1.0	
	Industry Seminar		
R-TV 97B	Radio/Entertainment	1.0	
	Industry Internship		
R-TV 97C	Entertainment Industry	1.0	
	Internship - KSAK Radio		
	<u>or</u>		
R-TV 97D	Entertainment Industry	2.0	
	Internship - KSAK Radio		
PLUS			
Select nine	(9) units from:		
R-TV 03	Sportscasting and Reporting	1.5	
R-TV 04	Broadcast News Field Reporting	3.0	
R-TV 05	Radio-TV Newswriting	3.0	

R-TV 06	Broadcast Traffic F	Reporting	1.5	
R-TV 08	KSAK Radio Studio	o Operations	2.0	CSU
R-TV 17	Internet Radio Bro	oadcasting	3.0	
R-TV 26	Legal Issues in Ent	ertainment Lav	v 3.0	
R-TV 27	Radio Drama		3.0	
	Total Units	36.0 -	37.0	

Radio Broadcasting: On the Air Commercial and Entertainment Arts Major 20605

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 Announcing	3.0	CSU
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 Seminar	1.0	
R-TV 97B	Radio/Entertainment Industry Internship	1.0	
R-TV 97C	Entertainment Industry	1.0	
	Internship - KSAK Radio	1.0	
	<u>or</u>		
R-TV 97D	Entertainment Industry Internship - KSAK Radio	2.0	
PLUS			

Select nine (9) units from:

Jereet IIII	(2) units ironi.		
R-TV 03	Sportscasting and Reporting	1.5	
R-TV 04	Broadcast News Field Reporting	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 Promotion	3.0	
R-TV 10	Radio Management	3.0	
	and Programming		

K-1V 2/	Radio Drama Total Units 36	3.0 5 .0 - 37.0
R-TV 27	Dadia Duama	2.0
R-TV 26	Legal Issues in Entertainmen	t Law 3.0
R-TV 17	Internet Radio Broadcasting	3.0
R-TV 12	Commercial Copywriting	3.0

Recommended 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. This is a licensed profession, and a valid Social Security Number is required to obtain state certification and national licensure.

Requirements for the Major Required courses:

ANAT 10A	Introductory Human Anatomy	4.0	CSU,U
MEDI 90	Medical Terminology	3.0	CSU
RAD 30	Radiographic Pathology	1.5	
RAD 31	Fluoroscopy	2.0	
RAD 32	Digital Imaging in Radiology	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 Radiologic Technology	2.0	CSU
	Total Units	77.0	

NOTE: ANAT 10A, and MEDI 90 may be taken prior to entering program.

Admission Reauirements:

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) Possess a valid Social Security Card. This is a licensed profession, and a valid Social Security Number is required to obtain state certification and national licensure.
- d) File a college application and be accepted as a student at Mt. San Antonio College.
- e) Take the college placement examination which is used as an indicator. If you have already taken a college placement test 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 College, the Technology and Health Division Office will obtain the test scores as long as an "Applicatoin for Admission" is on file with the Admissions and Records Office.) Arrangement 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.

Programs Leading to an Associates Degree

- f) Complete the following prerequisite courses with a minimum grade of "C" in each course.
 - General High School Algebra (one year) or Introductory College Alegbra (one semester) or MATH 51 (Elementary Algebra, or equivalent);
 - General High School Chemsistry (one year) or Introductory College Chemistry (one semester) or CHEM 10 - Chemistry for Allied Health. Students must complete prerequisite courses before applying to the program.
- g) After completion of the prerequisites, submit an application for the Radilogic 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 intersession.
- Forward two official transcripts of all coursework completed (high school, and other than Mt. San Antonio Colelge courses). One transcript must be sent to Technology and Health Division Office and the other to Admissions and Records.
- i) 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 official transcript must be sent to Technology and Health Division Office and the other to Admissions and Records. If the courses were taken and/or the degree obtained at Mt. San Antonio College, it is not necessary to request transcripts. Request the transcript for the Division Office be addressed as follows:

Mt. San Antonio College Technology and Health Division Radiologic Technology Program 1100 North Grand Avenue Walnut CA 91789-1299

j) Make an appointment with an educational advisor to review genereal education requirements for graduation.

Acceptance Requirements:

- a) A mandatory orientation meeting with the Radiologic Technology Department will be held during the spring semester. You will be contacted with date and time of orientation once you have been accepted.
- A physical examination, including certain immunizations and drug testing is required as part of the physical examination for all radiologic technology students before entrance into the clinical setting. Forms and information will be provided at time of orientation.

 All students will be required to complete a criminal background check prior to entering the clinical education phase (a valid Social Security Number is required to complete this process.)

Selection Procedure:

Selection of students is based upon the completion of the above admission requirements and date of application. The Department will make every effort to notify the applicant of acceptance by mail no less than one month prior to beginning of a program.

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.
- A course in mammography is also offered in the final semester for graduate students and licensed radiographers. This course is optional.

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 decisions/actions critical to patient safety
- Exposed to products containing latex.

Required Skills and Physical Abilities:

In order to ensure student and patient safety and welfare, the radiologic technology student must have sufficient strength, motor coordination, manual dexterity, intellectual capacity, and sensory funtions to be able to:

- a) Transport, move, lift, or transfer patients from a wheelchair or gurney to an x-ray table or to a patient bed.
- b) Lift arms above the head to move the x-ray tube assembly.

-) Move, adjust, and manipulate portable and fluoroscopic equipment according to established procedures and standards of speed and accuracy while conducting radiographic examinations.
- Maneuver well enough to physically protect himself or herself from injury caused by patients exhibiting aggressive behaviors.
- Physically place patients in the proper positions for the examination according to established procedures and standards of speed and accuracy.
- f) Rapidly respond to situations involving the health and safety of patients, providing physical and emotional support to the patient during radiographic procedures, providing basic first aid and emergency care in the absence of or until a physician arrives.
- g) Function adequately under stressful situations related to technical and procedural standards of patient care situations.
- Hear well enough (average 30 decibels for both ears) to respond to directions or calls for help from individuals remote from the location of the student.
- Speak English clearly enough to explain and direct procedural information to patients, and to communicate with physicians, technical staff, and faculty. Students for which English is a second language may be required to complete a verbal communication assessment prior to entering the program.
- Calculate and select proper technical exposure factors according to the individual needs of the patient's condition and requirements of the procedure with speed and accuracy.
- k) View and evaluate the recorded images of a radiograph for the purpose of identifying porper patient positioning, accurate procedural sequencing, proper exposure (and/or"s" number), and other established technical qualities.

Real Estate

Business Administration Department Major 20512

This program prepares 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. The requirements for a degree in real estate include the eight classes needed prior to applying to take the Real Estate Broker License Exam as well as several additional classes designed to strengthen the skills needed to succeed in a career in real estate.

Requirements for the Major *Required courses:*BUSR 50 Real Estate Principles

BUSR 51	Legal Aspects of Real Estate	3.0	
BUSR 52	Real Estate Practice, or	3.0	
BUSR 52D	Real Estate Practice	3.0	
	Work Experience		
BUSR 53	Real Estate Finance	3.0	
BUSR 55	Real Estate Economics	3.0	
BUSR 81	Appraisal:	3.5	
	Principles and Procedures		
CISB 15	Microcomputer Applications	4.0	CSU,UC

3.0 CSU

PLUS

Group A

Select two (2), three (3) or four (4) courses from:

ı	serece the (2), times (5) or roar (7) tourses from						
	BUSA 7	Principles of Accounting - Financial	5.0	CSU,UC			
	BUSA 11	Fundamentals of Accounting	3.0				
	BUSA 72	Bookkeeping - Accounting	5.0				
	BUSL 18	Business Law	3.0	CSU,UC			
	BUSM 20	Principles of Business	3.0	CSU,UC			
	BUSM 60	Human Relations in Business	3.0	CSU			
	BUSM 66	Small Business Management	3.0	CSU			
	BUSO 5	Business English	3.0				
	BUSO 25	Business Communications	3.0	CSU			
	BUSO 26	Oral Communications for Business	3.0				
	BUSS 35	Professional Selling	3.0	CSU			
	BUSS 36	Principles of Marketing	3.0	CSU			
	PSYC 1A	Introduction to Psychology	3.0	CSU,UC			
ı							

PLUS

Group B

Select zero (0), one (1) or two (2) units from:

BUSR 57	Income Tax Aspects of Real Estate Investmen		3.0 3.0
BUSR 59	Real Estate Property Mana	gement :	3.0
BUSR 60	Real Estate Investment P	lanning :	3.0
BUSR 62	Mortgage Loan Brokering and Lending	g :	3.0
BUSR 76	Escrow Procedures I	:	3.0
	Total Units	30.5 - 34	1.5

Real Estate Appraisal

Business Administration Department Major 20513

This program prepares students for employment following graduation. Students wishing a Bachelor's Degree (transfer program) should consult with an advisor to discuss transferability of courses.

Requirements for the Major Required courses:

Appraisal: Principles	3.5
and Procedures	
Uniform Standards	1.0
of Professional Appraisal Practice	
Residential Appraisal	3.5
Residential Appraisal: Case Studies	2.5
	and Procedures Uniform Standards of Professional Appraisal Practice

PLUS Select seven	(7) courses from:		
BUSA 11	Fundamentals of Accounting	3.0	
BUSR 50	Real Estate Principles	3.0	CSU
BUSR 51	Legal Aspects of Real Estate	3.0	
BUSR 53	Real Estate Finance	3.0	
BUSR 55	Real Estate Economics	3.0	
BUSR 57	Income Tax Aspects of Real Estate Investments	3.0	
BUSR 59	Real Estate Property Management	3.0	
BUSR 76	Escrow Procedures I	3.0	
CISB 15	Microcomputer Applications	4.0	CSU,UC
INSP 70	Elements of Construction	3.0	CSU
	Total Units 31.5 - 3	32.5	

Recommended Electives:

Registered Veterinary Technology Agricultural Sciences Department Major 20105

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 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 Technolog 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 co	urses 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	CSU
AGHE 65	Veterinary Radiography	2.0	CSU
AGHE 79	Laboratory Animal Medicine and Care	3.0 3.0	CSU CSU
AGHE 84A	• •	1.0	
	AGAN 2 AGAN 51 AGAN 94 AGHE 54 AGLI 95 AGLI 96 AGLI 98 Required co AGHE 60 AGHE 61 AGHE 62A AGHE 62B AGHE 64 AGHE 65 AGHE 79	AGAN 2 Animal Nutrition AGAN 51 Animal Handling and Restraint AGAN 94 Animal Breeding AGHE 54 Veterinary Office Procedures AGLI 95 Anatomy of Domestic Animals AGLI 96 Animal Sanitation and Disease Control AGLI 98 Physiology of Domestic Animals Required courses 2nd year: AGHE 60 Medical Nursing and Animal Care AGHE 61 Surgical Nursing AGHE 62A Clinical Pathology AGHE 62B Clinical Pathology AGHE 64 Veterinary Pharmacology AGHE 65 Veterinary Radiography AGHE 79 Laboratory Animal Medicine and Care	AGAN 2 Animal Nutrition 3.0 AGAN 51 Animal Handling and Restraint 3.0 AGAN 94 Animal Breeding 3.0 AGHE 54 Veterinary Office Procedures 3.0 AGLI 95 Anatomy of Domestic Animals 4.0 AGLI 96 Animal Sanitation 3.0 and Disease Control AGLI 98 Physiology of Domestic Animals 2.0 Required courses 2nd year: AGHE 60 Medical Nursing and Animal Care 4.0 AGHE 61 Surgical Nursing 4.0 AGHE 62A Clinical Pathology 4.0 AGHE 62B Clinical Pathology 4.0 AGHE 64 Veterinary Pharmacology 4.0 AGHE 65 Veterinary Radiography 2.0 AGHE 79 Laboratory Animal Medicine 3.0 and Care 3.0 AGHE 84A Applied Animal Health Procedures 1.0

AGHE 84B Applied Animal Health Procedures 1.0

1.0

Seminar in Animal

Health Technology

AGHE 85

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 (6) units from:		
AGLI 12	Exotic Animal Management	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 18	Horse Ranch Management	4.0	CSU
AGLI 19	Horse Hoof Care	2.0	CSU
AGLI 30	Beef Production	3.0	CSU
AGPE 70	Pet Shop Management	3.0	
AGPE 71	Canine Management	3.0	
AGPE 72	Feline Management	3.0	
AGPE 73	Tropical and Coldwater	2.0	
	Fish Management		
AGPE 74	Reptile Management	2.0	
AGPE 76	Aviculture - Cage and Aviary Birds	3.0	
	Total Units	50.0	

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

RESD 50	Theory and Principles	2.0	CSL
	of 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	1.5	CSU
	for Respiratory Care		
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	2.0	CSU
	Assessment	2.0	CSU
RESD 61	Current Issues in Respiratory Care	3.0	CSU
	Total Units 5	0.0	

Special Information

The completion of the Respiratory Therapy Program and receipt of a certificate documenting completion of required courses requires completion of the Associate Degree. The student may elect to pursue either the Associate in Science or Associate of 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 Respiratory Therapy requirements, the student is given a certificate documenting completion. This certification will permit the student to sit for all National Board for Respiratory Care (NBRC), Incorporated, examinations.

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:

- 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.

 Applicant must take the College placement exams before taking any of the prerequisite or respiratory therapy courses.

NOTE: 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:

Mt. San Antonio College Technology and Health Division Respiratory Therapy Program 1100 North Grand Avenue Walnut CA 91789-1389

 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.

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 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 documenting completion in Respiratory Therapy will be given. This 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 is required as a part of this physical examination. All Applicants are required to meet the Essential Functions for Success in the Respiratory Therapy 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 and carry at least 50 pounds 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 decisions/actions related to end of life issues
- Exposed to products containing latex

English Language Skills:

Although proficiency in English is not a criteria for admission into the Respiratory Therapy 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.

Sign Language/Interpreting Sign Language Department Major 20801

The Mt. San Antonio College Interpreter Training Program is designed to prepare individuals for careers as Sign Language Interpreters. Interpreters are needed wherever communication happens between the hearing community and the Deaf and hard-of-hearing community. There are an endless number of settings in which this communication takes place. Interpreters are employed by school districts, cruiseship companies, corporations, government agencies, hospitals, colleges and universities, and a vast number of other organizations and private businesses.

Program Preparation: Preparation for the program includes fluency in American Sign Language demonstrated by the completion of SIGN 104, American Sign Language 4, (or the equivalent skill) and English fluency demonstrated by the completion of ENGL 1A.

National Certification: There are many specialties within the field of Sign Language Interpreting, but the focus of this program is on preparing the interpreter generalist. Although requiring some type of certification is becoming more common in California, there are still many job opportunities for the precertified interpreter.

Completing the certifiate in Sign Language/Interpreting does not make one a "Certified Interpreter"; however, graduates of this program are encouraged to apply for National Interpreting Certification (NIC) through the Registry of Interpreters for the Deaf (RID) at www.rid.org.

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 of Science Degree in Sign Language/Interpreting.

Requirements for the Major Required courses:

SIGN 105	American Sign Language 5	4.0	
SIGN 108	Fingerspelling	2.0	
SIGN 201	Deaf Perspectives	3.0	
SIGN 202	American Deaf Culture	3.0	CSU,UC
SIGN 210	American Sign Language Structure	3.0	CSU,UC
SIGN 220	Translation: American Sign Language/English	3.0	CSU
SIGN 223	Principles of Interpreting	3.0	
SIGN 225	Ethical Decision Making for Interpreters	2.0	
SIGN 227	Cognitive Processing for Interpreters	4.0	
SIGN 231	Interpreting	4.0	
SIGN 232	Advanced Interpreting	4.0	
SIGN 239	Practicum	1.0	
PLUS			
Select three	(3) courses from:		
SIGN 99	Special Projects in Sign Language/Interpreting	2.0	
SIGN 238	Oral Transliteration	3.0	
SIGN 240	Vocabulary Building for Interpreters	2.0	

Total Units 40.0 - 43.0

1.5

1.5

1.0 CSU

Interpreting with Classifiers

Linked Service Learning

Video Interpreting

SIGN 250

SIGN 260

SL₂

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 Reauired courses:

	Total Units	30.0	
CISB 15	Microcomputer Applications	4.0	CSU,UC
BUSS 36	Principles of Marketing	3.0	CSU
BUSM 66	Small Business Management	3.0	CSU
BUSM 62	Human Resource Management	3.0	
DOSINIOI	and Management	5.0	C30
BUSM 61	Business Organization	3.0	CSU
BUSM 60	Human Relations in Business	3.0	CSU
BUSM 20	Principles of Business	3.0	CSU,UC
BUSM 10	Principles of Continuous Quality Improvement	3.0	
BUSA 7	Principles of Accounting - Financial	5.0	CSU,UC

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
BUSM 85	Special Issues in Business
	<u>or</u>
BUSS 85	Special Issues in Marketing

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

Television Production

Commercial and Entertainment Arts Major 20602

Students will gain experience in film-style production, remote and studio production. This course of study qualifies the student for an Associate of Science degree in television production, and is designed to prepare a student for an entry-level job in the industry in a variety of areas. This includes not only skills used in production, but also preproduction, editing, financial and legal affairs.

Requirements for the Major Required 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 100B	Work Experience in Film and TV	2.0	

PLUS

Select twelve (12) units from:

	Total Units	29.0	
R-TV 22	Editing for Film and Television	3.0	
R-TV 21	Remote Television Production and Engineering	3.5	
R-TV 20	Television News Production	3.0	
R-TV 18	Writing for Television/Film	3.0	CSU
R-TV 05	Radio-TV Newswriting	3.0	

Recommended Electives:

ANIM 115	Storyboarding
R-TV 26	Current 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:

	Total Units	21.0	
	and Construction Welding		
WELD 80	Fabrication	3.0	
WELD 70C	Certification for Welders	3.0	
WELD 70B	Intermediate Arc Welding	3.0	
WELD 70A	Beginning Arc Welding	3.0	
WELD 53A	Welding Metallurgy	3.0	CSU
WELD 51	Basic Electric Arc Welding	2.0	
WELD 50	Oxyacetylene Welding	2.0	
WELD 40	Introduction to Welding	2.0	CSU

Recommended Electives:

BUSM 61	Business Organization and Management
EDT 11	Technical 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

ASSOCIATE IN ARTS DEGREES (A.A.)

Liberal Arts and Sciences with area of emphasis in one of the following:

Business; Communication; Fine Arts; Humanities; Information Technology; Kinesiology and Wellness; Language Arts; Mathematics; Music; Natural Sciences; and Social & Behavioral Sciences

Mt. San Antonio College's Associate of Arts degrees are designed to meet the needs of students interested in graduating with a two-year college degree by studying in a specific area of emphasis. 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 ensure that, if a student subsequently decides to transfer at a later date to a four-year college or university, he or she would have a solid foundation in the transfer process. Transfer students may also become eligible for a Certificate of Achievement in CSU General Education Breadth or Intersegmental General Education Transfer Curriculum (IGETC) by completing requirements shown on pages 102-110 of this catalog.

To qualify for an Associate of Arts degree, students must complete all the graduation requirements as listed on page 31 of this catalog. In addition, students choose one of eleven "areas of emphasis" and complete the appropriate requirements as shown in this section. Courses listed within an area of emphasis may also be used to satisfy general education requirements, with additional elective courses chosen by the student to complete the 60-unit degree requirement. The printed degree and transcript notation will read "Associate of Arts in Liberal Arts and Sciences, Emphasis in (specific area)."

Note: Students wishing to transfer to the California State University system may be required to select additional General Education courses from *either* the CSU General Education pattern found on page 104 of this catalog or from the Intersegmental General Education Transfer Core Curriculum (IGETC) pattern listed on page 108 of this catalog.

Students wishing to transfer to the University of California system may be required to select additional General Education courses *only* from the Intersegmental General Education Transfer Core Curriculum (IGETC) pattern listed on page 108 of this catalog.

All students wishing to transfer are strongly advised to meet with a counselor or educational advisor to determine the most effective selection of general education courses to facilitate transfer to either the California State University system or to the University of California in specific majors.

Area of Emphasis Requirements (choose one)

Associate of Arts Degree in Liberal Arts and Sciences Emphasis in Business

An emphasis in Business provides the student with an understanding of business and its role in society. Students will have knowledge of various business functions and economic analysis. Upon completion of this degree students will be prepared for an entry level job in the business world.

Core/Required Courses (19 units)

BUSO 25	Business Communications	3.0
BUSC 1A	Principles of Economics	3.0
	- Macroeconomics (3 units)	
	<u>or</u>	

BUSC 1AH	Principles of Economics - Macroeconomics - Honors	3.0
BUSC 1B	Principles of Economics - Microeconomics	3.0
BUSC 1BH	<u>or</u> Principles of Economics - Microeconomics - Honors	3.0
BUSM 20	Principles of Business	3.0
CISB 15	Microcomputer Applications	4.0
SPCH 7	Intercultural Communication	3.0
	Total Units for Area of Emphasis	19.0

Associate of Arts Degree in Liberal Arts and Sciences

Emphasis in Communication

An emphasis in Communication provides the student with an understanding of communication strategies, reasoning,

logic, and critical analysis as it relates to public and interpersonal communication, and the interrelationship of mass media and society. In addition to the foundational Communication courses, students select either a Performance Studies or Intercultural Communications track.			
	red Courses (12 units)	icacions tracin	
SPCH 1A	Public Speaking	3.0	
CDCII 1AII	<u>or</u>	2.0	
SPCH 1AH	Public Speaking - Honors	3.0	
SPCH 26	Interpersonal Communication or	3.0	
SPCH 26H	Interpersonal Communication - Honors	3.0	
JOUR 100	Mass Media and Society	3.0	
SPCH 1B	Intermediate Public Speaking or	3.0	
SPCH 20	Argumentation and Debate or	3.0	
SPCH 20H	Argumentation and Debate - Honors	3.0	
PLUS			
Choose one	(1) of the following tracks:		
	ce Studies Track		
(6 addition	al units selected from the follow	ing):	
SPCH 3	Voice and Diction	3.0	
SPCH 4	Oral Interpretation of Literature	3.0	
SPCH 5	Readers Theater	3.0	
SPCH 1B	Intermediate Public Speaking (if not used as a core class)	3.0	
SPCH 15	Forensics	2.0	
SPCH 16A	Forensics	2.0	
SPCH 16B	Forensics	2.0	
SPCH 16C	Forensics	2.0	
THTR 11	Principles of Acting I	3.0	
THTR 12	Principles of Acting II	3.0	
	<u>or</u>		
Intercultural Track			
16 addition	al unite colorted from the follow	inal.	

(6 additional units selected from the following):

(o addition	(o dddiddddid dines selected from the following).		
SPCH 7	Intercultural Communication (required course for this track)	3.0	
SOC 20	Sociology of Ethnic Relations or	3.0	
SOC 20H	Sociology of Ethnic Relations - Honors	3.0	
PHIL 15	Major World Religions <u>or</u>	3.0	
PHIL 15H	Major World Religions - Honors	3.0	

Race, Culture, Sex and Mass Media Images	3.0
Multicultural American Literature	e 3.0
Principles of Cultural Anthropology	3.0
Or Congral Cultural Anthropology	2.0
General Cultural Antinopology	3.0
Total Units for Area of Emphasis	18.0
	and Mass Media Images Multicultural American Literature Principles of Cultural Anthropology <u>or</u> General Cultural Anthropology Total Units

Associate of Arts Degree in Liberal Arts and Sciences

Emphasis in Fine Arts

An emphasis in Fine Arts provides the student with an understanding of the practices and theories of traditional and contemporary two and three-dimensional studio arts and an introduction to the history of western art. In addition to the foundation courses, students select studio electives.

3.0

Core/Required Courses (24 units) ARTD 15A Drawing: Beginning

ARTD 17A	Drawing: Life	3.0
ARTD 20	Design: Two Dimensional	3.0
ARTD 21	Design: Color and Composition	3.0
ARTS 22	Design: Three-Dimensional	3.0
ARTD 25A	Painting: Beginning	3.0
AHIS 4	History of Western Art: Prehistoric Through Gothic	3.0
	or	
AHIS 4H	History of Western Art: Prehistoric Through Gothic - Ho	3.0
ALUC E	,	
AHIS 5	History of Western Art: Renaissance Through Modern	3.0
	<u>or</u>	
AHIS 5H	History of Western Art: Renaissance Through Modern -	3.0 Honors
	Total Units	24.0

Recommended two studio electives

for Area of Emphasis

(6 units selected from the following):

	. ,.	
NIM 101	Drawing - Gesture and Figure	3.0
ARTB 14	Basic Studio Arts	3.0
ARTC 165	Illustration	3.0
ARTC 70	Computer Graphics: Introduction	3.0
ARTD 16	Drawing: Perspective	3.0
ARTD 15B	Drawing: Beginning	3.0
ARTD 17B	Drawing: Life	3.0
ARTD 27	Painting: Watercolor	3.0

			i			i			_		
ARTD 43	Printmaking: Silk-screen	3.0		<u>or</u>			- Honors		^i	ata of Auta Dogues	
ADTD 44	and Intaglio	2.0	AHIS 5H	History of Western Art:	3.0	HIST 4	History of World Civilization	3.0		ate of Arts Degree eral Arts and Sciences	
ARTD 44	Printmaking: Relief and Lithography	3.0	ALUC	Renaissance Through Modern - H			<u>or</u>			is in Information Technolog	
ARTG 20	Art, Artists and Society	3.0	AHIS 6	History of Modern Art	3.0	HIST 4H	History of World Civilization - Honors	3.0			•
ARTG 21A	Introduction to Exhibition	3.0	AHIS 6H	<u>or</u> History of Modern Art - Honors	3.0	HIST 10	History of Asia	3.0	An emphasis in Information Technology provides the student with an understanding of software developmen		
AIIIGZIA	Production	5.0	AHIS 9	History of Asian Art	3.0	HIST 11	History of Asia	3.0		echnologies, operating systems, n	
ARTS 30A	Ceramics: Beginning	3.0	AHIS 10	A History of Greek and	3.0	HIST 16	The Wild West	3.0	network security.		
ARTS 33	Ceramics: Hand Construction	3.0	טו כוווא	Roman Art and Architecture	5.0	ווטו וכווו	- A History, 1800-1890	5.0	Information Technology Basics		
ARTS 40A	Sculpture: Beginning	3.0	AHIS 11	History of African, Oceanic	3.0	HIST 19	History of Mexico	3.0		nits from the following):	
ARTS 41A	Sculpture: Life	3.0	7	and Native American Art	5.0	HIST 35	History of Africa	3.0	CISB 11	Computer Information Systems	3.5
PHOT 10	Basic Digital	3.0	AHIS 12	History of Precolumbian Art	3.0	HIST 44	History of Native Americans	3.0	CISB 15	'	
	and Film Photography			<u>or</u>			·	5.0	COMP 12	Microcomputer Applications Office Computer Applications	4.0 4.0
			AHIS 12H	— History of Precolumbian Art	3.0	Foreign La		4.0			4.0
Associa	ate of Arts Degree			- Honors		CHIN 2	Continuing Elementary Chinese	4.0		Development	
	ral Arts and Sciences		Philosophy	and Political Science:		CHINI 2	and	4.0		elected from the following):	
	s in Humanities		PHIL 12	Ethics	3.0	CHIN 3	Intermediate Chinese	4.0	CISP 11	Programming in Visual Basic	4.0
•	sis in Humanities provides the stu	dent with an	111111111111111111111111111111111111111	<u>or</u>	5.0	EDCH 2	<u>or</u>	4.0	CISP 21	Programming in Java	4.0
	ding of the interrelationship betw		PHIL 12H	Ethics - Honors	3.0	FRCH 2	Continuing Elementary French	4.0	CISP 31	Programming in C++	4.0
	story, music, literature and the dra		PHIL 20A	History of Western Philosophy	3.0	FDCILO	<u>and</u>	4.0	CISP 41	Programming in C#	4.0
	ophical and political thought. This		PHIL 20B	History of Western Philosophy	3.0	FRCH 3	Intermediate French	4.0	CISW 21	Secure Client Side	4.0
	thens the understanding of other		POLI 5	Political Science Theory	3.0	CEDIA 2	<u>or</u>			Web Programming	
through th	e study of a foreign language.		POLI 9	Introduction to International	3.0	GERM 2	Continuing Elementary German	4.0	CISW 24	Secure Server Side	4.0
Select a to	tal of 18 units choosing courses f	rom at least	TOLIT	Relations	5.0	CEDIA 2	<u>and</u>			Web Programming	
5 of the following 7 categories:			Fu aliah au			GERM 3	Intermediate German	4.0		Technology	
Music:				d Dramatic Arts Literatures:	2.0	ITAL 2	<u>or</u>			elected from the following):	
	Music Litanatuna Cumusu	2.0	FRCH 60	French Culture Through Cinema		ITAL 2	Continuing Elementary Italian	4.0	CISD 11	Database Management	4.0
MUS 11A	Music Literature Survey	3.0	ITAL 60	Italian Culture Through Cinema	3.0		<u>and</u>			Microcomputers	
MUS 11B	Music Literature Survey	3.0	LIT 10	Survey of Shakespeare	3.0	ITAL 3	Intermediate Italian	4.0	CISD 21	SQL Server	4.0
MUS 12	History of Jazz	3.0	LIT 11A	World Literature	3.0		<u>or</u>		CISD 31	Database Management	4.0
MUS 13	Introduction to Music Appreciation	3.0	LIT 11B	World Literature	3.0	JAPN 2	Continuing Elementary Japanese	2 4.0	Operating	Systems and Networking	
MUS 14A	World Music	3.0	LIT 15	Introduction to Cinema	3.0		<u>and</u>		(4 units se	elected from the following):	
MUS 14B	American Folk Music	3.0	SPCH 4	Oral Interpretation of Literature	3.0	JAPN 3	Intermediate Japanese	4.0	CISN 11	Telecommunications/Networkin	ıg 4.0
MUS 14B	Rock Music History	3.0	THTR 10	History of Theater Arts	3.0		<u>or</u>		CISN 21	Windows Operating System	4.0
נו כטועו	and Appreciation	5.0	Religion at	nd Literatures:		SPAN 11	Spanish for the Spanish Speaking	g 4.0	CISN 31	Linux Operating System	4.0
Art History	• •		PHIL 15	Major World Religions	3.0	CDAN 42	<u>and</u>		Security (4	4 units selected from the followin	na):
•	History of Women	2.0		<u>or</u>		SPAN 12	Continuing Spanish	4.0	CISS 13	Principles of Information	4.0
AHIS 3	and Gender in Art	3.0	PHIL 15H	Major World Religions	3.0		for the Spanish Speaking		(133 13	Systems Security	1.0
				- Honors		CDAN 2	<u>or</u> Continuing Elementary Spanish	4.0		Total Units 19.5 –	20.0
AHIS 3H	<u>or</u> History of Women	3.0	LIT 36	Introduction to Mythology	3.0	SPAN 2		4.0		for Area of Emphasis	20.0
ווכ כוווא	and Gender in Art - Honors	5.0	LIT 46	The Bible as Literature:	3.0	CDAN 2	and	4.0		•	
AHIS 4	History of Western Art:	3.0	LIT 47	Old Testament	2.0	SPAN 3	Intermediate Spanish	4.0		nded Electives:	
71113 1	Prehistoric Through Gothic	5.0	LIT 47	The Bible as Literature: New Testament	3.0		Total Units 18.0 - 1	28.0	CISM 11	Systems Analysis and Design	3.5
	or			ואביא ובצומווובוונ			for Area of Emphasis		COMP 11	Internet Research for Business	2.0
AHIS 4H	History of Western Art:	3.0	History:			Recommen	nded electives:		COMP 20	Word for the Business	4.0
	Prehistoric Through Gothic - Hon		HIST 3	History of World Civilization	3.0	HUMA 1	The Humanities	3.0	COMPLE	Professional	4.0
AHIS 5	History of Western Art:	3.0		<u>or</u>		STDY 100	Student Achievement	3.0	COMP 50	Desktop Presentations	4.0
	Renaissance Through Modern		HIST 3H	History of World Civilization	3.0		and Fundamentals of Learning			using PowerPoint	
			1			l			I		

BUSA 7	Principles of Accounting - Financial	5.0
BUSM 20	Principles of Business	3.0
BUSM 60	Human Relations in Business	3.0
BUSO 25	Business Communications	3.0
BUSS 36	Principles of Marketing	3.0
SL 2	Service Learning in Networking	1.0
SPCH 26	Interpersonal Communication	3.0
	<u>or</u>	
SPCH 26H	Interpersonal Communication - Honors	3.0
STDY 100	Student Achievement and Fundamentals of Learning	3.0

Associate of Arts Degree in Liberal Arts and Sciences Emphasis in Kinesiology and Wellness

An emphasis in Kinesiology and Wellness provides the student with an understanding of physical education, health promotion, and the mechanics of human bodily movement. In addition to the foundational physical education and movement courses, students select courses from a scientific and nutrition and a behavioral development and diversity cluster.

Cluster 1: Physical Education and Movement (minimum of 6 units selected from the following):

٠,			
I	PE 3	First Aid and CPR	3.0
		<u>or</u>	
I	PE 5	Advanced First Aid/CPR/	3.0
		Emergency Response	
I	PE 13	Sports Officiating	3.0
I	PE 17	Introduction to Physical Education	3.0
I	PE 19	Introduction to Care/	3.0
		Prevention of Activity/Sports-Rela	ated Injuries
ı	PE 34	Fitness for Living	3.0
ı	PE 39	Techniques of Fitness Testing	2.0
ı	PE 44	Theory of Coaching	3.0
I	DN-T 18	Introduction to Dance	3.0
I	DN-T 20	History and Appreciation of Dance	3.0
(Cluster 2: So	cientific and Nutrition Backgroun	nd

Cluster 2: Scientific and Nutrition Background (minimum of 3 units selected from the following):

ANAT 10A	Introductory Human Anatomy	4.0
	<u>or</u>	
ANAT 35	Human Anatomy	5.0

jice				
ANAT 10B	Introductory Human Physiology	4.0		
	<u>or</u>			
ANAT 36	Human Physiology	5.0		
CHEM 10	Chemistry for Allied	4.0		
	Health Majors			
	<u>or</u>			
CHEM 40	Introduction	4.0		
MICD 4	to General Chemistry	- 0		
MICR 1	Principles of Microbiology	5.0		
	<u>or</u>			
MICR 22	Microbiology	4.0		
PHYS 1	Physics	4.0		
	<u>or</u>			
PHYS 2AG	General Physics	4.0		
PSYC 1B	Biological Psychology	3.0		
BIOL 1	General Biology	4.0		
BIOL 5	Contemporary Health Issues	3.0		
	<u>or</u>			
BIOL 13	Human Reproduction,	3.0		
	Development and Aging			
NF 10	Nutrition for Personal Health and Wellness	3.0		
	or			
NF 25	Essentials of Nutrition	3.0		
Cluster 3: E	Cluster 3: Behavioral Development and Diversity			

Cluster 3: Behavioral Development and Diversity (minimum of 3 units selected from the following):

(minimum)	of 3 units selected from the follo	wing):
PSYC 1A	Introduction to Psychology	3.0
PSYC 26	Psychology of Sexuality	3.0
PSYC 3	Introduction to Research Methods in Psychology	4.0
PSYC 17	Introduction to Human Services	3.0
PSYC 33	Psychology for Effective Living	3.0
SOC 1	Sociology	3.0
SOC 1H	Sociology - Honors	3.0
SOC 2	Sociology	3.0
SOC 2H	Sociology - Honors	3.0
SOC 20	Sociology of Ethnic Relations	3.0
SOC 20H	Sociology of Ethnic Relations - Honors	3.0
COUN 2	College Success Strategies	3.0
COUN 5	Career/Life Planning	3.0
N 1 1'4'		

Plus additional units taken from any courses in Clusters 1-3 above for a total of at least 18 units.

Total Units 18.0 for Area of Emphasis

Strongly Recommended:

Students who are getting the AA degree with an emphasis in Kinesiology and Wellness are encouraged to take a minimum of three activity courses in at least three different PE/DANCE areas: PE-A (Aquatics); PE-F (Fitness); PE-I (Individual Sports); PE-S (Team Sports); DNCE (Dance).

Associate of Arts Degree in Liberal Arts and Sciences Emphasis in Language Arts

An emphasis in Language Arts provides the student with an understanding of the acquisition of language with a focus on reading, writing, listening, and speaking within a diverse environment. In addition to the foundational language acquisition courses, students select personal options that will strengthen their individual interests and goals within Language Arts.

3.0

LIT 33

Language Acquisition

CHLD 51

(minimum 9 units selected from the following):

in Child Development

Early Literacy

	iii diiiid b e reiopiiieiie				
ENGL 1C	Critical Thinking and Writing	4.0			
	<u>or</u>				
PHIL 9	Critical Thinking	3.0			
	and Logical Writing				
ENGL 81	Language Acquisition	3.0			
READ 100	Analysis and Critical Reading	3.0			
READ 110	Reading Tutoring for Elementary	3.0			
	Students Through Service Learnin	ıg			
SIGN 210	American Sign	3.0			
	Language Structure				
STDY 100	Student Achievement	3.0			
	and Fundamentals of Learning				
I amaurana l	Language Arts and Diversity				

Language Arts and Diversity

(minimum 6 units selected from the following):

		-
SPAN 1	Elementary Spanish	4.0
SPAN 2	Continuing Elementary Spanish	4.0
SPAN 3	Intermediate Spanish	4.0
SPAN 4	Continuing Intermediate Spanish	4.0
SPAN 5	Advanced Spanish	4.0
SPAN 6	Continuing Advanced Spanish	4.0
SPAN 11	Spanish for the Spanish Speaking	4.0
SPAN 12	Continuing Spanish for the Spanish Speaking	4.0
SPAN 25	Spanish Literature	3.0
SPAN 53	Conversational Spanish	3.0
SPAN 54	Conversational Spanish	3.0

FRCH 1	Elementary French	4.0
FRCH 2	Continuing Elementary French	4.0
FRCH 3	Intermediate French	4.0
FRCH 4	Continuing Intermediate French	4.0
FRCH 5	Advanced French	4.0
FRCH 6	Continuing Advanced French	4.0
FRCH 52	Conversational French	3.0
FRCH 53	Continuing Conversational French	3.0
FRCH 54	Advanced Conversational French	3.0
ITAL 1	Elementary Italian	4.0
ITAL 2	Continuing Elementary Italian	4.0
ITAL 3	Intermediate Italian	4.0
ITAL 4	Continuing Intermediate Italian	4.0
ITAL 5	Advanced Italian	4.0
ITAL 6	Continuing Advanced Italian	4.0
ITAL 52	Conversational Italian	3.0
ITAL 53	Continuing Conversational Italian	3.0
ITAL 54	Advanced Conversational Italian	3.0
GERM 1	Elementary German	4.0
GERM 2	Continuing Elementary German	4.0
GERM 3	Intermediate German	4.0
CHIN 1	Elementary Chinese	4.0
CHIN 2	Continuing Elementary Chinese	4.0
CHIN 3	Intermediate Chinese	4.0
CHIN 4	Continuing Intermediate Chinese	4.0
JAPN 1	Elementary Japanese	4.0
JAPN 2	Continuing Elementary Japanese	4.0
JAPN 3	Intermediate Japanese	4.0
JAPN 4	Continuing Intermediate Japanese	4.0
JAPN 5	Advanced Japanese	4.0
LATN 1	Elementary Latin	4.0
LATN 2	Continuing Elementary Latin	4.0
ARAB 1	Elementary Arabic	4.0
ARAB 2	Continuing Elementary Arabic	4.0
SIGN 101	American Sign Language 1	4.0
SIGN 102	American Sign Language 2	4.0
SIGN 103	American Sign Language 3	4.0
SIGN 104	American Sign Language 4	4.0
SIGN 105	American Sign Language 5	4.0
LIT 3	Multicultural American Literature	
LIT 11A	World Literature	3.0
	<u>or</u>	
LIT 11B	World Litera2ture	3.0
LIT 20	African American Literature	3.0
LIT 25	Contemporary Mexican	3.0
	American Literature	

Images of Women in Literature 3.0

	for Area of Emphasis	10.0
	Total Units	18.0
CHLD 61	Language Arts and Art Media for Young Children	3.0
SPCH 4	Oral Interpretation of Literature	3.0
LIT 40	Children's Literature	3.0
LIT 6B	Survey of English Literature	3.0
LIT CD	<u>or</u>	2.0
LIT 6A	Survey of English Literature	3.0
LIT 2	<u>or</u> Modern American Literature	3.0
LIT 1	Early American Literature	3.0
JOUR 108	Writing for Public Relations	3.0
JOUR 102	<u>or</u> Intermediate News Writing	3.0
JOUR 101	Beginning News Writing	3.0
ENGL 9	Writing the Personal Journal	3.0
ENGL 8B	Creative Writing - Poetry	3.0
ENGL 8A	Creative Writing - Fiction	3.0
	English - Introduction to Literary Types - Honors	3.0
ENGL 1BH	Or English Introduction	3.0
LINGE ID	to Literary Types	5.0
ENGL 1B	English - Introduction	3.0
	3 units selected from the follow	vina):
Personal O	otions	
CHLD 50	Multicultural Education: Anti-Bias Perspective	3.0

Associate of Arts Degree in Liberal Arts and Sciences Emphasis in Mathematics

An emphasis in Mathematics provides the student with an understanding of college level mathematics. In addition to the foundational calculus courses, students may select from computer science programming options.

Core/Required Courses

(minimum 18 units selected from the following with at most two CSCI courses):

MATH 130	College Algebra	3.0
MATH 140	Calculus for Business	4.0
MATH 150	Trigonometry	3.0
MATH 160	Precalculus Mathematics	4.0
MATH 180	Calculus and Analytic Geometry	4.0
MATH 181	Calculus and Analytic Geometry	5.0
MATH 280	Calculus and Analytic Geometry	4.0

MATH 285	Linear Algebra and Differential Equations	5.0
CSCI 110	Fundamentals of Computer Science	3.5
CSCI 140	C++ Language and Object Development	4.0
CSCI 145	Java Language and Object Oriented Programm	4.0 ning
	Total Units 18	Units
Recommend	ded Electives:	
MATH 100	Survey of College Mathematic	s 3.0
MATH 110	Elementary Statistics	3.0
	<u>or</u>	
MATH 110H	Elementary Statistics - Honors	3.0
MATH 245	A Transition to Advanced Mathematics	3.0
MATH 120	Finite Mathematics	3.0
CHEM 50	General Chemistry I	5.0
	<u>or</u>	
CHEM 50H	General Chemistry I - Honors	5.0
CHEM 51	General Chemistry II	5.0
PHYS 4A	Engineering Physics	5.0
PHYS 4B	Engineering Physics	5.0
PHYS 4C	Engineering Physics	5.0

Associate of Arts Degree in Liberal Arts and Sciences Emphasis in Music

An emphasis in Music provides the student with an understanding of music theory, harmony, and the history of western music. In addition to the foundational Music courses, students select courses in piano and a performance ensemble.

Core/Required Courses (15 units)

MUS 2	Music Theory	3.0
MUS 3A	Harmony	3.0
MUS 5A	Musicianship - Ear Training and Sight Singing	1.0
MUS 5B	Musicianship - Ear Training and Sight Singing	1.0
MUS 11A	Music Literature Survey	3.0
MUS 16	Individual Instruction	3.0
MUS 22	Conducting	1.0
Piano (2 un	its selected from the following):	
MUS 17A	Elementary Class Piano	1.0
MUS 17B	Intermediate Class Piano	1.0

MUS 18	Advanced Class Piano	1.0
Performan	ice Ensemble	
(1-3 units	selected from the following):	
MUS 27	Chamber Winds	2.0
MUS 30	Collegiate Chorale	1.0
MUS 31	Concert Choir	2.0
MUS 32	Masterworks Chorale	1.0
MUS 34	Women's Vocal Ensemble	2.0
MUS 36	Concert and Community Band	2.0
MUS 38	Ensemble	1.0
MUS 39	Laboratory Band	2.0
MUS 40	Pep Band	1.0
MUS 44	Vocal Jazz Ensemble	3.0
MUS 45	Chamber Singers	3.0
MUS 46	Mt. SAC Singers	2.0
MUS 47	Jazz Band	3.0
MUS 48	Men's Vocal Ensemble	2.0
MUS 49	Wind Ensemble	3.0
	Total Units 18.0 -	20.0
	for Area of Emphasis	
Strongly R	ecommended Electives:	
MUS 11B	Music Literature Survey	3.0
MUS 16	Individual Instruction	3.0
	(every semester)	
MUS 9	Introduction to Music Technolog	gy 3.0
1 ———		

Associate of Arts Degree in Liberal Arts and Sciences Emphasis in Natural Sciences

An emphasis in Natural Sciences provides the student with an understanding of living and non-living systems and promotes an appreciation of the methodologies and tools of science. Students may select courses that focus on a specific major and then select complementary courses to strengthen their selected focus or they may select courses that strengthen and broaden their overall understanding of the Natural Sciences.

Select a minimum of 18 units from the following

Select a minimum of 18 units from the following:		
BIOL 2	Plant & Animal Biology	4.0
BIOL 4	Biology for Majors	4.0
	<u>or</u>	
BIOL 4H	Biology for Majors - Honors	4.0
BIOL 8	Cell and Molecular Biology	4.0
BTNY 3	Plant Structures, Functions and Diversity	5.0
MICR 1	Principles of Microbiology	5.0
	<u>or</u>	

	for Area of Emphasis	
	Total Units	18.0
ENGR 41	Dynamics	3.0
ENGR 40	Statics	3.0
PHYS 4C	Engineering Physics	5.0
PHYS 4B	Engineering Physics	5.0
PHYS 4A	Engineering Physics	5.0
PHYS 2BG	General Physics	4.0
PHYS 2AG	General Physics	4.0
GEOL 2	Historical Geology	4.0
GEOL 1	Physical Geology	4.0
CHEM 60	Quantitative Chemical Analysis	5.0
CHEM 81	Organic Chemistry	5.0
CHEM 80	Organic Chemistry	5.0
CHEM 51	General Chemistry II	5.0
CHEM 50H	General Chemistry - Honors	5.0
CITEIN 30	or	3.0
CHEM 50	General Chemistry	5.0
MICR 22	Microbiology	4.0

Associate of Arts Degree in Liberal Arts and Sciences

Emphasis in Social & Behavioral Sciences

An emphasis in Social & Behavioral Sciences provides the student with an understanding of statistics, cultural and gender diversity, the development of the person, and biology as it relates to behavior or society.

Cluster 1: Statistics Background

(3-4 units selected from the following):

MATH 110	Elementary Statistics	3.0
	<u>or</u>	
MATH 110H	Elementary Statistics - Honors	3.0
PSYC 10	Statistics	4.0
	for the Rehavioral Sciences	

Cluster 2: Cultural & Gender Diversity

(minimum of 3 units selected from the following):

ANTH 30	The Native American	3.0
ANTH 5	Principles of Cultural Anthropology	3.0
	<u>or</u>	
ANTH 22	General Cultural Anthropology	3.0
JOUR 100	Mass Media and Society	3.0
JOUR 107	Race, Culture, Sex and Mass Media Images	3.0
POLI 25	Politics of the Mexican American	3.0
POLI 35	African American Politics	3.0

SPCH 7	Intercultural Communication	3.0
HIST 36	Women in American History - Beyond the Stereotypes	3.0
BIO 15	Human Sexuality or	3.0
BIO 15H	Human Sexuality - Honors	3.0
LIT 33	Images of Women in Literature	3.0
PSYC 25	The Psychology of Women	3.0
PSYC 26	Psychology of Sexuality	3.0
SOC 5	Introduction to Criminology	3.0
SOC 14	Marriage and the Family	3.0
SOC 20	Sociology of Ethnic Relations	3.0
SOC 20H	<u>or</u> Sociology of Ethnic Relations - Honors	3.0

Cluster 3: Development of the Person (minimum of 3 units selected from the followina):

(minimum	of 3 units selected from the follo	wing
BIO 5	Contemporary Health Issues	3.0
BIO 13	Human Reproduction, Development and Aging	3.0
CHLD 1	Child, Family and Community	3.0
CHLD 10	Child Growth and Development <u>or</u>	3.0
CHLD 10H	Child Growth and Development - Honors	3.0
PSYCH 14	Developmental Psychology	3.0
SOC 2	Sociology <u>or</u>	3.0
SOC 2H	Sociology - Honors	3.0
SOC 4	Introduction to Gerontology	3.0
SOC 15	Child Development	3.0

Cluster 4: Biology as it Relates to Behavior or Society (minimum of 3 units selected from the following):

ANTH 1	Biological Anthropology	3.0
BIOL 6	Humans and the Environment	3.0
BIOL 17	Neurobiology and Behavior	3.0
PSYC 1B	Biological Psychology	3.0

Plus additional units taken from any courses in Clusters 2-4 above for a total of at least 18 units.

Total Units 18.0 for Area of Emphasis

Students who decide to major in the Social and Behavioral Sciences are strongly encouraged to gain a strong research methods background by taking PSYC 3 Introduction to Research Methods in Psychology 4.0 or LIBR 1 Information Resources and Research Methods 3.0.

Other recommended electives include:

other recon	mienaca electives miciaae.	
ANTH 3	Archaeology	3.0
BUSM 60	Human Relations in Business	3.0
FCS 41	Life Management	3.0
COUN 5	Career/Life Planning	3.0
COUN 51	Career Planning	1.0
CHLD 1	Child, Family and Community	3.0
CHLD 73	Infant/Toddler Care and Development	3.0
CHLD 85	Infants At Risk	3.0
LIT 15	Introduction to Cinema	3.0
LIT 20	African American Literature	3.0
LIT 25	Contemporary Mexican American Literature	3.0
LIT 3	Multicultural American Literature	3.0
PSYC 17	Introduction to Human Services	3.0
PSYC 19	Abnormal Psychology	3.0
PSYC 33	Psychology for Effective Living	3.0
SPCH 26	Interpersonal Communication	3.0
	<u>or</u>	
SPCH 26H	Interpersonal Communication - Honors	3.0
SL 1	Service Learning/Seminar for Health Occupations	6.0
	<u>or</u>	
SL 2	Linked Service Learning	1.0
	<u>or</u>	
SL 3	Service Learning/Seminar in Community Involvement	3.0
	<u>or</u>	
SL 4	Service Learning and Community	1.0



Section 9

Transferring to California Colleges and Universities

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 and Advising Services 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 or a counselor in Counseling and Advising Services. 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 Counseling and Advising Services. All of the CSU and UC catalogs are available in the Career and Transfer 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.

Liberal Arts

Art Art History Classics **Comparative Cultures**

Creative Studies Drama/Theater Arts

English and Literature Foreign Languages and

Literatures Humanities Liberal Studies

Linauistics Medieval Studies

Museum Studies

Music Musicology Philosophy **Religious Studies** Renaissance Studies

Rhetoric

Social Sciences

Anthropology Behavioral Sciences Child Development Cultural Geography

Economics Ethnic and Area Studies

Asian Studies

Chicana/Chicano Studies Comparative Cultures **European Studies**

Latin American Studies Middle Fastern Studies

Native American Studies Third World Studies

History Human Development Law and Society

Legal Studies Peace and Conflict Studies Political Science

Psychology

Social Ecology Sociology **Urban Studies** Women's Studies

Natural Sciences & Math

LIFE SCIENCES

Biological Sciences Animal Physiology Biochemistry **Biomedical Sciences** Botany

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 Geology

Oceanography Physical Geography

Physical Sciences

Physics

Soil/Water Sciences

MATH

Mathematics Statistics

Ouantitative Methods

Agriculture/Natural Resources/Environment

Agricultural Management

Agriculture 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 Soil Sciences

Wildlife Management

Applied Arts

Architecture Art

Design **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 lournalism

Mass Communication Motion Picture - Television

Photography

Photo – Journalism Public - Relations

Radio - Television Services

Services

Communicative Disorders

Counseling Criminal Justice Deaf Studies

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

THE CALIFORNIA STATE UNIVERSITY

Lower Division Transfer Admission Requirements

Some campuses restrict enrollment of lower-division transfer students. California residents may be eligible for CSU admission with fewer than 60 transferable semester units (90 quarter units) if they:

- Have a college grade point average of 2.00 or better in all transferable college units attempted.
- Are in good standing at the last college or university attended, i.e., you are eliqible to re-enroll.
- Meet the admission requirements for a first-time freshman or have successfully completed necessary courses to make up the deficiencies you had in high school if you did not complete the 15-unit pattern of college preparatory subjects.
- Meet the eligibility index required of a freshman.

Some campuses may require lower-division transfer students to have completed English composition and general education mathematics prior to transfer. Some campuses do not admit lower-division transfer students.

Contact your campus of choice to determine whether there are admission limits on the number of lower-division transfer students.

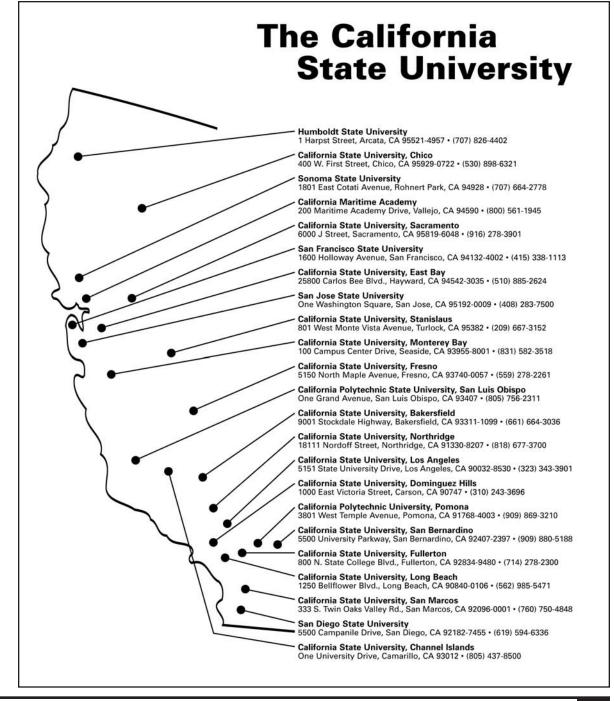
Students who completed college units before they graduated from high school or during the summer between high school graduation and CSU enrollment are considered first-time freshmen and must meet those admission requirements.

Upper Division Transfer Admission Requirements

Students are eligible for admission with 60 or more transferable semester units (90 quarter units) if they:

- Have a college grade point average of 2.00 or better (2.40 for non-California residents) in all transferable college units attempted.
- Are in good standing at the last college or university attended, i.e. are eligible to re-enroll.
- Have completed or will complete prior to transfer at least 30 semester
 units (45 quarter units) of courses equivalent to general education
 requirements with a grade of "C" or better. The 30 units must include
 all of the general education requirements in communication in the
 English language (English composition, oral communication, and
 critical thinking) and at least one course of at least 3 semester units
 (4 quarter units) required in college-level mathematics.

The above information is from the 2008-2009 California State University (CSU) undergraduate application.



CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION REQUIREMENTS 2008-09

The requirements listed below are for the 2008-2009 academic year and are based upon information available at the time of catalog publication. Students may contact the Counseling and Advising Services 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.

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

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.

Students beginning Fall 2008 must follow 2008-2009 CSU GE—Breadth requirements. Courses are approved for the academic year in which they were completed. Students may obtain a copy from Counseling and Advising Services . For the most recent version of the CSU GE, come to Counseling and Advising Services located in Student Services, upper level.

AHIS 1H

Area A The English Language and Critical Thinking (9 units) *Select one course from each group:* A-1: Oral Communication: SPCH 1A Public Speaking, or SPCH 1AH Public Speaking — Honors **A-2: Written Communication:** ENGL 1A Freshman Composition ENGL 1AH Freshman Composition — Honors

-3: Critical Thinking:			
ENGL 1C	Critical Thinking and Writing		
ENGL 1CH	Critical Thinking and Writing — Honors		
PHIL 3	Logic in Practice		
PHIL 3H	Logic in Practice — Honors		
PHIL 8	Critical Thinking		
PHIL 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 20H	Argumentation and Debate — Honors		

Area B

The Physical Universe & Life (9 units minimum):

Select one course from each group. Also, one lab (+) course must be included in one of the science groups.

B-1: Physical Science -

Select at least one course from the following list:

Sciect at icast	one course nom 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

.50. Aica A aiic	mathematics must be completed with a
+CHEM 51	General Chemistry II
GEOG 1	Elements of Physical Geography
GEOG 1H	Elements of Physical Geography – Honors
+GEOG 1L	Physical Geography Laboratory
+GEOG 1LH	Physical Geography Laboratory — Honors
+GEOL 1	Introduction to Geology
GEOL 7	Geology of California
GEOL 8	Earth Science
GEOL 8H	Earth Science — Honors
+GEOL 8L	Earth Science Laboratory
GEOL 9	Environmental Geology
GEOL 10	Natural Disasters
GEOL 13	Evolution of the Earth
METO 3	Weather and the Atmospheric
	Environment
+METO 3L	Weather and Atmospheric
	Environment Laboratory
OCEA 10	Introduction to Oceanography
OCEA 10H	Introduction to Oceanography — Honors
+0CEA 10L	Introduction to Oceanography Laboratory
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	Biological Anthropology Laboratory
D101 4	

+BIOL 4 +BIOL 4H BIOL 6 +BIOL 6L BIOL 17 BIOL 20 +BIOL 21 +MICR 1 +MICR 22 PSYC 1B	Biology for Majors Biology for Majors — Honors Humans and the Environment Humans and the Environment Laboratory Neurobiology and Behavior Marine Biology Marine Biology Laboratory Principles of Microbiology Microbiology Biological Psychology
D 2. Lab Calas	, , , , , , , , , , , , , , , , , , ,
B-3: Lab Scient This requireme courses above a correspondin	nce nt is met by taking ONE of the indicated by a "+" sign. Lab must be g section to the lecture course taken.
B-4: Mathema	atics
Select at least	one course from the following list:
BUSC 17	Applied Business Statistics
MATH 100	Survey of College Mathematics
MATH 100	Elementary Statistics
MATH 110H	,
MATH 120	Finite Mathematics
MATH 130	College Algebra
MATH 130	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	
	re, Philosophy and
	uages (<i>9 units</i>)
	urses, with at least <u>one</u> course from
"Arts" and one	course from "Humanities":

C-1: Arts

AHIS 1	Understanding the Visual Arts, or
ARTB 1	Understanding the Visual Arts

	AHIS 2	Topics in Visual Art and Culture
	AHIS 2H	Topics in Visual Art and Culture — Honors
tory	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
ons	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
	Auto 7	Furnishings I
	MUS 7	Fundamentals of Music
	MUS 11A	Music Literature Survey
	MUS 11B	Music Literature Survey
	I	

Understanding the Visual Arts - Honors

+BI0L 1

+BIOL 2

+BIOL 3

General Biology

Plant and Animal Biology

Ecology and Field Biology

CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION REQUIREMENTS 2008-09							
MUS 12	History of Jazz	ITAL 1	Elementary Italian	SPAN 11	Spanish for the Spanish Speaking	BUSC 1BH	Principles of Economics —
MUS 13	Introduction to Music Appreciation	ITAL 2	Continuing Elementary Italian	SPAN 12	Continuing Spanish for the Spanish		Microeconomics — Honors
MUS 13H	Introduction to Music Appreciation —	ITAL 3	Intermediate Italian		Speaking	JOUR 100	Mass Media and Society
	Honors	ITAL 4	Continuing Intermediate Italian	SPAN 25	Spanish Literature	D-3: Ethnic S	•
MUS 14A	World Music	ITAL 5	Advanced Italian			* HIST 30	
MUS 14B	American Folk Music	ITAL 6	Continuing Advanced Italian	Area D		* HIST 30	History of the African American
MUS 15	Rock Music History and Appreciation	ITAL 60	Italian Culture Through Cinema	Social, Politi	cal, and Economic Institutions and	* HIST 40	History of the African American
PHOT 15	History of Photography	JAPN 1	Elementary Japanese		storical Background	* HIST 44	History of the Mexican American
SPCH 4	Oral Interpretation of Literature	JAPN 2	Continuing Elementary Japanese		rses: Minimum 9 units with courses from	JOUR 107	History of Native Americans
THTR 9	Introduction to Theatre Arts	JAPN 3	Intermediate Japanese	at least two a	lisciplines (D0 — D9):	POLI 25	Race, Culture, Sex, and Mass Media Images Politics of the Mexican American
THTR 10	History of Theatre Arts	JAPN 4	Continuing Intermediate Japanese	D-0: Sociolog	gy & Criminology	POLI 25	African American Politics
THTR 11	Principles of Acting I	JAPN 5	Advanced Japanese	CHLD 1	Child, Family, School and Community	l	
C-2: Humani	·	LATN 1	Elementary Latin	SOC 1	Sociology	SOC 20 SOC 20H	Sociology of Ethnic Relations Sociology of Ethnic Relations — Honors
CHIN 1	Elementary Chinese	LATN 2	Continuing Elementary Latin	SOC 1H	Sociology — Honors		•,
CHIN 1	Continuing Elementary Chinese	LIT 1	Early American Literature	SOC 2	Sociology	D-4: Gender	
CHIN 2	Intermediate Chinese	LIT 2	Modern American Literature	SOC 2H	Sociology — Honors	* HIST 36	Women in American History –
CHIN 3	Continuing Intermediate Chinese	LIT 6A	Survey of English Literature	SOC 4	Introduction to Gerontology		Beyond the Stereotypes
ENGL 1B	English — Intro to Literary Types	LIT 6B	Survey of English Literature	SOC 5	Introduction to Criminology	* PSYC 25	The Psychology of Women
ENGL 1BH	English — Intro to Literary Types — Honors	LIT 11A	World Literature	SOC 14	Marriage and the Family	D-5: Geograp	phy
FRCH 1	Elementary French	LIT 11B	World Literature	SOC 15	Child Development	GEOG 2	Human Geography
FRCH 2	Continuing Elementary French	LIT 14	Introduction to Modern Poetry	SOC 20	Sociology of Ethnic Relations	GEOG 2H	Human Geography — Honors
FRCH 3	Intermediate French	LIT 15	Introduction to Cinema	SOC 20H	Sociology of Ethnic Relations — Honors	GEOG 5	World Regional Geography
FRCH 4	Continuing Intermediate French	LIT 20	African American Literature	D-1: Anthrop	oology & Archeology	GEOG 8	The Urban World
FRCH 5	Advanced French	LIT 25	Contemporary Mexican American Lit	ANTH 3	Archeology	GEOG 30	Geography of California
FRCH 6	Continuing Advanced French	LIT 33	Images of Women in Literature	ANTH 5	Principles of Cultural Anthropology	D-6: History	3 . ,
FRCH 60	French Culture Through Cinema	LIT 35	Science Fiction and Fantasy Survey	ANTH 22	General Cultural Anthropology	* HIST 1	History of the United States
GERM 1	Elementary German	LIT 36	Introduction to Mythology	ANTH 30	The Native American	* HIST 3	History of World Civilization
GERM 2	Continuing Elementary German	LIT 40	Children's Literature	D-2: Econom		* HIST 3H	History of World Civilization — Honors
GERM 3	Intermediate German	LIT 46	The Bible as Literature: Old Testament			* HIST 4	History of World Civilization
* HIST 1	History of the United States	LIT 47	The Bible as Literature: New Testament	AGAG 1	Food Production, Land Use and Politics –	* HIST 4H	History of World Civilization — Honors
* HIST 3	History of World Civilization	PHIL 5	Introduction to Philosophy	AGFR 20	A Global Perspective Conservation of Natural Resources	* HIST 7	History of the United States
* HIST 3H	History of World Civilization — Honors	PHIL 5H	Introduction to Philosophy — Honors		Principles of Economics —	* HIST 7H	History of the United States — Honors
* HIST 4	History of World Civilization	PHIL 12	Ethics	BUSC 1A	Macroeconomics —	* HIST 8	History of the United States
* HIST 4H	History of World Civilization — Honors	PHIL 12H	Ethics — Honors	BUSC 1AH	Principles of Economics —	* HIST 8H	History of the United States — Honors
* HIST 7	History of the United States	PHIL 15	Major World Religions	DUSC IAII	Macroeconomics — Honors	* HIST 10	History of Asia
* HIST 7H	History of the United States — Honors	PHIL 15H	Major World Religions — Honors	BUSC 1B	Principles of Economics — Microeconomics	* HIST 11	History of Asia
* HIST 8	History of the United States	PHIL 20A	History of Western Philosophy	טטטכ וט	i illicibies of Economics – Microeconomics		,
* HIST 8H	History of the United States — Honors	PHIL 20B	History of Western Philosophy	Attention	t is recommended that you use one of the	antions halou	are part of the Quaite required in Area D
* HIST 10	History of Asia	SIGN 101	American Sign Language 1	Attention:	t is recommended that you use one of the	ohrious neiow	as part of the 9 units required in Area D.
* HIST 11	History of Asia	SIGN 102	American Sign Language 2	CSII AME	RICAN INSTITUTIONS & U.S. HISTORY GRA	DIIATION PEO	HIIDEMENT.
* HIST 19	History of Mexico	SIGN 103	American Sign Language 3			DOMITON NEW	COINLINERI.
* HIST 30	History of the African American	SIGN 104	American Sign Language 4	Option 1:	HIST 7 (or 7H) + HIST 8 (or 8H)		di la S
¥ LUCT 24	III. (Cal. ACT. A .	SIGN 202	American Deaf Culture		If Option #1 is selected, DO NOT select a	nother U6 coul	rse as your third Area D course.

American Deaf Culture

Continuing Elementary Spanish

Continuing Intermediate Spanish

Continuing Advanced Spanish

Elementary Spanish

Intermediate Spanish

Advanced Spanish

SIGN 202

SPAN 1

SPAN 2

SPAN 3

SPAN 4

SPAN 5

SPAN 6

* HIST 31

* HIST 35

* HIST 36

* HIST 39

* HIST 40

HUMA 1

History of the African American

Women in American History -

History of the Mexican American

Beyond the Stereotypes

History of Africa

California History

The Humanities

If Option #1 is selected, DO NOT select another D6 course as your third Area D course.

Completion of one course from U.S. History plus one course from American Institutions: Option 2:

United States History:

American Institutions:

HIST 1 HIST 7H HIST 8H HIST 31 HIST 40 POLI 1 POLI 25 HIST 8 HIST 30 HIST 36 POLI 1H POLI 35 HIST 7

The two courses from Option 1 or Option 2 may be used as part of the 9 units for AREA D.

CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION REQUIREMENTS 2008-09					
* HIST 19 * HIST 30	History of Mexico History of the African American	NF 25 NF 25H	Essentials of Nutrition Essentials of Nutrition — Honors		
* HIST 31 * HIST 35	History of the African American History of Africa	NF 28 PE 34	Cultural and Ethnic Foods Fitness for Living		
* HIST 36	Women in American History — Beyond	PSYC 14	Developmental Psychology		
	the Stereotypes	* PSYC 25	The Psychology of Women		
* HIST 39	California History	PSYC 26	Psychology of Sexuality		
* HIST 40	History of the Mexican American	PSYC 33	Psychology for Effective Living		

D-7: Interdisciplinary Social or Behavioral

* CHLD 10	Child Growth and Development
* CHLD 10H	Child Growth and Development – Honors
SPCH 7	Intercultural Communication
SPCH 26	Interpersonal Communication
SPCH 26H	Interpersonal Communication — Honors

History of Native Americans

D-8: Political Science, Government, and **Legal Institutions**

POLI 1	Political Science
POLI 1H	Political Science — Honors
POLI 2	Political Science
POLI 5	Political Science Theory
POLI 9	Introduction to International Relations
POLI 25	Politics of the Mexican American
POLI 35	African American Politics
	POLI 1H POLI 2 POLI 5 POLI 9 POLI 25

D-9: Psychology

* HIST 44

PSYC 1A	Introduction to Psychology
PSYC 1AH	Introduction to Psychology – Honors
PSYC 14	Developmental Psychology
PSYC 19	Abnormal Psychology
* PSYC 25	The Psychology of Women

Lifelong Understanding & Self Development (3 units) Select at least one 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
BIOL 15H	Human Sexuality — Honors
* CHLD 10	Child Growth and Development
* CHLD 10H	Child Growth and Development – Honors
COUN 5	Career/Life Planning
FCS 41	Life Management

Exploring Leadership

Wellness

Notes

- 1. Upper division transfer students (60-70 semester baccalaureate units), will need to have at least 30 semester units of general education. Within those 30 units, Area A (9) semester units and Mathematics (3) semester units must be completed with grades of "C" or better.
- 2. CSULA transfer students are advised to complete ENGL 1C or ENGL 1CH as part of the Area A requirements. CSULA requires completion of ENGL 102 (ENGL 1C or 1CH) as a prerequisite to UNIV 400 (Writing Proficiency Examination).
- 3. Courses on this list have been approved by the CSU Office of the Chancellor for Fall 2008 and beyond. If a course was completed prior to approval, it cannot be certified for CSU General Education—Breadth requirements.
- 4. Some majors at CSU do not allow double counting of major preparation courses and general education requirements. Students are advised to consult with a counselor or advisor to determine if courses can be double counted.
- 5. Some majors require specific general education courses. Students planning to transfer are advised to plan their schedules carefully in order to maintain progress.
- * Courses may not be double counted to satisfy more than one area, even if a course is listed in more than one area.

LEAD 55

NF 10

Nutrition for Personal Health and

THE UNIVERSITY OF CALIFORNIA

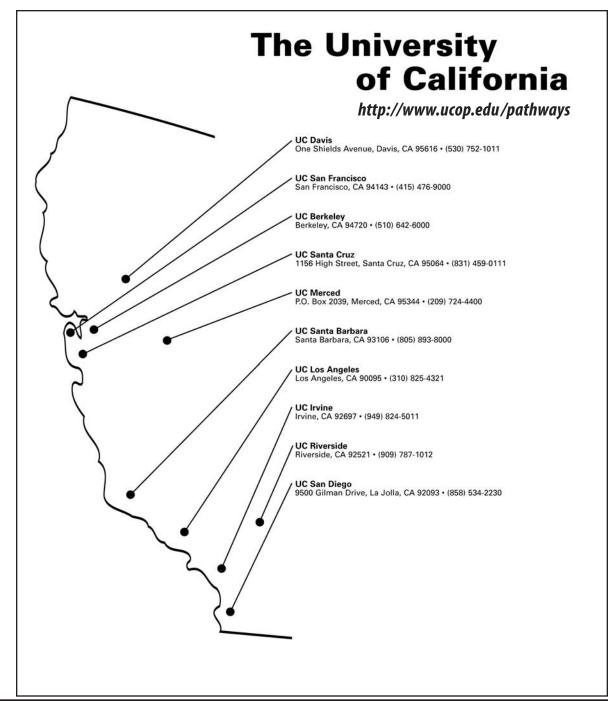
UC Minimum Admission Requirements

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 Counseling and Advising Services.

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 in the
 Local Context you are eligible for transfer if you have a 2.0 GPA in
 your transferable coursework.
- 2. 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, earn a "C" or better in each required course, and maintain a 2.0 GPA in all transferable coursework to be eligible to transfer.
- 3. 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 at least a 2.4 GPA. No more than 14 semester units may be taken credit/no credit; and
 - 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; and
 - 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) 2008-09

The requirements listed below are for the 2008-2009 academic year and are based upon information available at the time of catalog publication.

Students may contact the Counseling and Advising Services 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 2008 must follow 2008-2009 IGETC requirements. Courses are approved for the academic year in which they were completed. Students may obtain a copy from the Counseling and Advising Services.

Area 1

English Communication

Select one 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
PHIL 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 Elementary Statistics

MATH 110H Elementary Statistics – Honors

MATH 120 Finite Mathematics

MATH 130 College Algebra

MATH 140 Calculus for Business

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

Arts and Humanities

Select <u>three</u> courses minimum, at least <u>one</u> course from the Arts group and <u>one</u> course from the Humanities group:

Arts Courses:

MUS 14B

Area 3

Arts Courses:	
AHIS 1	Understanding the Visual Arts, <u>or</u>
ARTB 1	Understanding the Visual Arts
AHIS 1H	Understanding the Visual Arts — 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 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
DN-T 20	History and Appreciation of Dance
MUS 11A	Music Literature Survey
MUS 11B	Music Literature Survey
MUS 12	History of Jazz
MUS 13	Introduction to Music Appreciation
MUS 13H	Introduction to Music Appreciation –
	Honors
MUS 14A	World Music

American Folk Music

MUS 15 THTR 10 Humanities of CHIN 3 CHIN 4 ENGL 1B ENGL 1BH FRCH 3 FRCH 4 FRCH 5 FRCH 6 FRCH 60 GERM 3 HIST 1 HIST 3 HIST 3H HIST 3H HIST 7 HIST 7H HIST 8 HIST 8H HIST 10 HIST 11 HIST 19 HIST 30 HIST 31 HIST 35 HIST 36 HIST 36 HIST 37 HIST 37 HIST 38 HIST 39 HIST 30 HIST 31 HIST 35 HIST 36 HIST 37 HIST 38 HIST 39 HIST 30 HIST 31 HIST 35 HIST 36 HIST 37 HIST 38 HIST 39 HIST 30 HIST 31 HIST 35 HIST 36 HIST 37 HIST 38 HIST 39 HIST 30 HIST 31 HIST 35 HIST 36 HIST 37 HIST 38 HIST 39 HIST 30 HIST 31 HIST 35 HIST 36	Rock Music History and Appreciation History of Theater Arts Courses: Intermediate Chinese Continuing Intermediate Chinese English — Introduction to Literary Types English — Introduction to Literary Types — Honors Intermediate French Continuing Intermediate French Advanced French Continuing Advanced French French Culture through Cinema Intermediate German History of the United States History of World Civilization History of World Civilization History of World Civilization — Honors History of the United States History of Asia History of Asia History of Asia History of Asia History of the African American History of the African American History of the Stereotypes California History History of the Mexican American The Humanities Intermediate Italian Continuing Intermediate Italian Advanced Italian	ITAL 6 ITAL 60 JAPN 3 JAPN 4 JAPN 5 LIT 1 LIT 2 LIT 6A LIT 16B LIT 10 LIT 11A LIT 11B LIT 14 LIT 15 LIT 20 LIT 25 LIT 33 LIT 35 LIT 36 LIT 46 LIT 47 PHIL 5 PHIL 15H PHIL 12 PHIL 12H PHIL 12 PHIL 12H PHIL 15 PHIL 20A PHIL 35 PHIL 15H PHIL 15H PHIL 15H PHIL 15D PHIL 15H PHIL 15D PHIL 15H PHIL 15H PHIL 15D PHIL 15H PHIL 15D PHIL 15H PHIL 20A PHIL	Continuing Advanced Italian Italian Culture through Cinema Intermediate Japanese Continuing Intermediate Japanese Advanced Japanese Early American Literature Modern American Literature Survey of English Literature Survey of English Literature Survey of Shakespeare World Literature World Literature Introduction to Modern Poetry Introduction to Cinema African American Literature Contemporary Mexican American Literature Images of Women in Literature Science Fiction and Fantasy Survey Introduction to Mythology The Bible as Literature: Old Testament The Bible as Literature: New Testament Introduction to Philosophy Introduction to Philosophy Honors Ethics Ethics — Honors Major World Religions — Honors History of Western Philosophy History of Western Philosophy American Sign Language 4 American Deaf Culture Intermediate Spanish Continuing Intermediate Spanish Continuing Advanced Spanish Spanish Literature
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INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC) 2008-09

Area 4

Social and Behavioral Sciences

Select three courses total from a minimum of two different

subject areas:	
ANTH 3	Archaeology
ANTH 5	Principles of Cultural Anthropology, <u>or</u>
ANTH 22	General Cultural Anthropology
BUSC 1A	Principles of Economics: Macroeconomics
BUSC 1AH	Principles of Economics:
	Macroeconomics — Honors
BUSC 1B	Principles of Economics: Microeconomics
BUSC 1BH	Principles of Economics:
	Microeconomics — Honors
GEOG 2	Human Geography
GEOG 2H	Human Geography — Honors
GEOG 8	The Urban World
GEOG 30	Geography of California
HIST 44	History of Native Americans
POLI 1	Political Science
POLI 1H	Political Science — Honors
POLI 5	Political Science Theory
POLI 9	Introduction to International Relations
POLI 25	Politics of the Mexican American
POLI 35	African American Politics
PSYC 1A	Introduction to Psychology
PSYC 1AH	Introduction to Psychology — Honors
PSYC 19	Abnormal Psychology
PSYC 25	The Psychology of Women
SOC 1	Sociology
SOC 1H	Sociology — Honors
SOC 2	Sociology
SOC 2H	Sociology — Honors
SOC 4	Introduction to Gerontology
SOC 5	Introduction to Criminology
SOC 20	Sociology of Ethnic Relations
SOC 20H	Sociology of Ethnic Relations – Honors
SPCH 7	Intercultural Communication

Area 5

Physical and Biological Sciences

Choose two courses, one physical and one biological science, at least one must include a laboratory. Laboratory must be a corresponding section to the lecture course taken. Laboratory courses are underlined.

Physical Science:

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
<u>CHEM 40</u>	Introduction to General Chemistry
CHEM 50	General Chemistry I
CHEM 50H	General Chemistry I — Honors
<u>CHEM 51</u>	General Chemistry II
GEOG 1	Elements of Physical Geography
GEOG 1H	Elements of Physical Geography – Honors
GEOG 1L	Physical Geography Laboratory

GEOG 1LH Physical Geography Laboratory — Honors GEOL 1 Introduction to Geology GEOL 8 Earth Science GEOL 8H Earth Science — Honors

GEOL 8L Earth Science Laboratory GEOL 9 **Environmental Geology** GEOL 13 **Evolution of the Earth**

OCEA 10 Introduction to Oceanography OCEA 10H Introduction to Oceanography – Honors OCEA 10L Introduction to Oceanography Laboratory

PHYS 1 Physics PHYS 2AG **General Physics** PHYS 2BG **General Physics** PHYS 4A **Engineering Physics** PHYS 4B **Engineering Physics** PHYS 4C **Engineering Physics**

Biological 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	Biological Anthropology Laboratory
<u>BIOL 1</u>	General Biology
BIOL 2	Plant and Animal Biology
<u>BIOL 4</u>	Biology for Majors
BIOL 4H	Biology for Majors — Honors
BIOL 6	Humans and the Environment
BIOL 6L	Humans and the Environment Laboratory
<u>BIOL 8</u>	Cell and Molecular Biology
0101 00	14 · D: I

BIOL 20 Marine Biology **BIOL 21** Marine Biology Laboratory MICR 1 Principles of Microbiology MICR 22 Microbiology PSYC 1B Biological Psychology

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.

JAPN 1 Elementary Japanese CHIN 1 Elementary Chinese FRCH 1 Elementary French SIGN 101 American Sign Language I SPAN 1 Elementary Spanish **GERM 1** Elementary German

ITAL 1 Elementary Italian SPAN 11 Spanish for the Spanish Speaking

CSU GRADUATION REQUIREMENTS ONLY IN U.S. HISTORY, CONSTITUTION, AND AMERICAN IDEALS:

Note: UCSB requires a college-level U.S. history or government course.

Option 1: HIST 7 (or 7H) + HIST 8 (or 8H)

If Option #1 is selected, DO NOT select another D6 course as your third Area D course.

Completion of one course from U.S. History plus one course from American Institutions. Option 2:

See the categories below under United States History and American Institutions.

United States History:

	•
HIST 1	History of the United States
HIST 7	History of the United States
HIST 7H	History of the United States — Honors
HIST 8	History of the United States
HIST 8H	History of the United States — Honors
HIST 30	History of the African American
HIST 31	History of the African American
HIST 36	Women in American History —
	Beyond the Stereotypes
HIST 40	History of the Mexican American

American Institutions:

POLI 1	Political Science
POLI 1H	Political Science — Honors
POLI 25	Politics of the Mexican American
POLI 35	African American Politics

Notes:

UC limits transfer credit for some courses. Students may review the UC Transfer Course Agreement (TCA) with an educational advisor or counselor in the Student Services Center. Students must see an educational advisor or counselor for preliminary IGETC certification. For IGETC certification, the course must be on the list during the year taken. Students from non-English speaking countries should see an educational advisor or international student counselor for language proficiency equivalences.

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.

CALIFORNIA INDEPENDENT COLLEGES AND UNIVERSITIES

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.

Admission requirements vary and are listed in the catalogs of the various universities and colleges.

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.

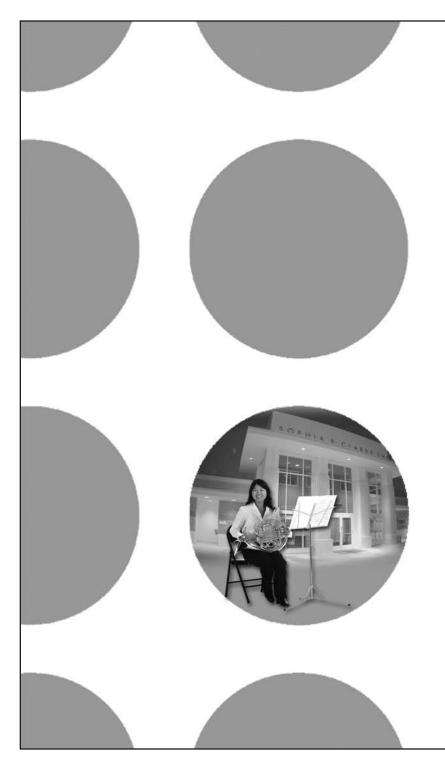
The independent colleges and universities include:

- · Alliant International University
- · American Academy of Dramatic Arts Los Angeles
- · Antioch University 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 CollegeMills College
- Montery Institute of International Studies
- Mount St. Mary's College
- National University
- · 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 Conservatory of Music
- Santa Clara University
- · Saybrook Graduate School and Research Center
- Scripps College
- · Simpson University
- · Soka University of America
- · Southern California University of Health Sciences
- · Stanford University
- · Thomas Aguinas 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
- · 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 or counselor in Counseling and Advising Services. You may also obtain information from the aiccu.edu.



Section 10Course Descriptions

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						
ADJU	Administration of Justice: Law Enforcement	GRAP	Computer Graphics	MFG	Manufacturing Technology	179	
AERO	Aeronautics	CISX	Computer Information Systems: Auxiliary	MATH	Mathematics		
AGAB	Agriculture: Agri-Business	CISB	Computer Information Systems: Beginning	MEDI	Medical Terminology		
AGHE	Agriculture: Animal Health Technology	CISD	Computer Information Systems: Database	MENT	Mental Health/Psychiatric Technician		
AGAN	Agriculture: Animal Science — General	CISM	Computer Information Systems: Management 148	METO	Meteorology		
AGFR	Agriculture: Forestry, Conservation	CISN	Computer Information Systems: Networking	MICR	Microbiology	183	
AGAG	Agriculture: General Subjects	CISP	Computer Information Systems: Programming	MUS	Music		
AGLI	Agriculture: Livestock Production	CISS	Computer Information Systems: Security	NURS	Nursing	187	
AGOR	Agriculture: Ornamental Horticulture 117	CISW	Computer Information Systems: Web Applications 150	NF	Nutrition & Food	188	
AGPE	Agriculture: Pet Science	CSCI	Computer Science	OCEA	Oceanography	189	
AIRC	Air Conditioning & Refrigeration120	CORS	Correctional Sciences	PHIL	Philosophy	189	
AIRT	Air Traffic Control121	COUN	Counseling	PHOT	Photographics		
AIRM	Aircraft Maintenance Technology	DNCE	Dance: Activity152	PE-L	Physical Education: Adaptive	191	
AD	Alcohol Drug Counseling123	DN-T	Dance: Theory	PE-A	Physical Education: Aquatics	192	
AMLA	American Language124	DSPS	Disabled Students	PE-X	Physical Education: Athletics	193	
ANAT	Anatomy & Physiology	EDUC	Education	PE-F	Physical Education: Fitness		
ANTH	Anthropology	ELEC	Electronics	PE-I	Physical Education: Individual		
ARAB	Arabic	EST	Electronics Systems Technology	PE-S	Physical Education: Team Sports		
ARCH	Architectural Technology126	EMS	Emergency Medical Service	PE	Physical Education: Theory		
AHIS	Art History127	EMT	Emergency Medical Technician	PHSC	Physical Science		
ANIM	Art: Animation	ENGR	Engineering160	PHTH	Physical Therapy		
ARTB	Art: Basic Studio Arts	EDT	Engineering Design Technology	PAP	Physician Assistant Preparatory		
ARTC	Art: Career Arts & Graphic Design	ENGL	English: Composition	PHYS	Physics		
ARTG	Art: Gallery & Professional Practices	FCS	Family & Consumer Sciences	POLI	Political Science		
ARTZ	Art: Special Studio Arts	FASH	Fashion Merchandising & Design	PSYC	Psychology		
ARTS	Art: Three-Dimensional Studio Arts	FIRE	Fire Technology	R-TV	Radio & Television		
ARTD	Art: Two-Dimensional Studio Arts	FRCH	French	RAD	Radiologic Technology		
ASTR	Astronomy	GEOG	Geography	READ	Reading		
BIOL	Biology	GEOL	Geology	RESD	Respiratory Therapy		
BTNY	Botany	GERM HIST	German	SL	Service Learning		
BUSA BUSC	Business: Accounting		History	SIGN SOC	Sign Language & Interpreting		
BUSL	Business: Economics	HT HRM	Histotechnology	SPAN	SociologySpanish		
BUSM	Business: Management	HUMA		SPCH	Speech		
BUSO	Business: Office Technology	INSP	Inspection & Estimating, Building	STDY	Study Techniques		
PLGL	Business: Paralegal	ID	Interior Design	SURV	Surveying		
BUSR	Business: Real Estate	ITAL	Italian	TECH	Technology & Related Courses		
BUSS	Business: Sales, Merchandising & Marketing	JAPN	Japanese	THTR	Theater Arts		
	Chemical Technology	JOUR	Journalism	TRAN	Transportation		
CHEM	Chemistry	LATN	Latin	TUTR	Tutor Training		
CHLD	Child Development	LEAD	Leadership	WATR	Water Technology		
CHIN	Chinese	LERN	Learning Assistance Services	WELD	37		
CNET	Computer & Networking Technology	LIBR	Library & Instructional Media		···g		
1	Computer Applications	LIT	Literature				

ADMINISTRATION OF JUSTICE: LAW ENFORCEMENT

ADJU 1 — The Administration of Justice System 3 Units (CAN AJ 2) Degree Appropriate, CSU, UC

54.00 hours lecture.

History and philosophy of the justice system, subsystems, roles, relationships and theories of crime causation and correction.

ADJU 2 — Principles and Procedures of the Justice System 3 Units Degree Appropriate, CSU 54.00 hours lecture. 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.

ADJU 3 — Concepts of Criminal Law 3 Units

54.00 hours lecture Degree Appropriate, CSU, UC Provides an overview of California criminal law from the perspective of the law enforcement officer.

ADJU 4 — Legal Aspects of Evidence 3 Units

54.00 hours lecture. Degree Appropriate, CSU Introduction to criminal evidence, including admissibility, witness competency, privileged communication, hearsay, and collection and preservation of evidence.

ADJU 5 — Community Relations 3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC

Prerequisite: Eligibility for English 68

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

54.00 hours lecture. Degree Appropriate Responsibilities, techniques and methods of police patrol with emphasis on the basic knowledge required in handling common police occurrences.

ADJU 13 — Concepts of Traffic Services 3 Units

54.00 hours lecture. Degree Appropriate 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.

ADJU 20 — Principles of Investigation

3 Units Spring Semester Degree Appropriate, CSU

54.00 hours lecture.

Prereauisite: Eliaibility for ENGL 68

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.

ADJU 38 — Narcotics Investigation

54.00 hours lecture.

Degree Appropriate

3 Units

54.00 hours lecture.

Prerequisite: Eligibility for ENGL 68

Investigation techniques for drug enforcement. Drug effects, use of informants, amendment issues, and handling of evidence.

ADJU 59 — Gangs in the Community/Corrections 3 Units

54.00 hours lecture. Degree Appropriate, CSU

Advisory: Eliaibility for ENGL 68, ADJU 1

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.

ADJU 68 — Administration of Justice Report Writing 3 Units 54.00 hours lecture. Degree Appropriate

Techniques for proper documentation of crime reports and related law enforcement records. Use of simulations and role-playing.

ADJU 74 — Vice Control

54.00 hours lecture.

Prerequisite: Eligibility for ENGL 68

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 23 — Primary Pilot Ground School

4 Units

3 Units

Degree Appropriate

72.00 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 requirements for the FAA Private Pilot computerized knowledge examination.

AERO 24 — Navigation 3 Units

54.00 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.

AERO 25 — Commercial Pilot Ground School

3 Units Degree Appropriate, CSU

54.00 hours lecture. Advisory: AERO 23

FAA Commercial Pilot certification requirements, including aerodynamics, commercial pilot maneuvers, complex aircraft operations, multi-engine aircraft operations, aircraft weight and balance, aircraft performance charts, and radio navigation using advanced instrumentation. Prepares students for completion of the FAA Commercial Pilot Computerized Knowledge Examination.

AERO 26 — Aviation Weather

3 Units

Degree Appropriate, CSU 54.00 hours lecture. A basic study of weather elements, the atmosphere, weather mechanics, weather disturbances, weather analysis and forecasts. Evaluation of

aviation weather reports and forecasts.

AERO 27 — Aviation Safety and Human Factors

3 Units

54.00 hours lecture. Degree Appropriate, CSU

Advisory: AERO 23

Evaluation 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.

AERO 28 — Aircraft and Engines

3 Units

54.00 hours lecture. Degree Appropriate, CSU

Advisorv: AERO 23

Aircraft design, subsystems, repair and maintenance. Principles of internal combustion engines, fuel system, engine construction and design, lubrication and cooling methods, ignition system, basic troubleshooting. Turbine engine basic design and operational characteristics.

AERO 29 — Federal Aviation Regulations

2 Units

36.00 hours lecture. Degree Appropriate, CSU Federal Aviation Regulations that pertain to pilot certification, aircraft maintenance, general operating rules; air traffic control practices and procedures; reporting of aircraft accidents.

AERO 30 — Instrument Ground School

3 Units

Degree Appropriate, CSU

54.00 hours lecture.

Advisory: AERO 23 and AERO 26

Instrument Flight Rules, Air Traffic Control communications and procedures, air navigation radio aids, instrument landing systems, flight instruments, aircraft performance, aeronautical publications, instrument 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 Degree Appropriate

18.00 hours lecture.

(May be taken four times for credit.)

(May be taken for Credit/No Credit only.)

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 Laboratory

1 Unit

Degree Appropriate

54.00 hours lab.

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(May be taken four times for credit.)

(May be taken for Credit/No Credit only.)

Corequisite: AERO 40

Advisory: AERO 23 taken prior or concurrently

Primary pilot training and the development of specialized skills. Students individually schedule training lessons at a flight school of their choice, 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 this course will improve skills through further instruction and practice.

AERO 41 — **Basic Flight Simulator Laboratory** 27.00 hours lab.

.5 Unit Degree Appropriate

(May be taken for Credit/No Credit only.)

Advisory: AERO 25

Flight 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.

AERO 42 — Advanced Flight Simulator Laboratory

.5 Unit

3 Units

54.00 hours lab. Degree Appropriate

(May be taken for Credit/No Credit only.)

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 procedures for multi-engine aircraft and high performance airplanes.

AERO 45A — Multi-Engine Turbine Aircraft Operations 3 Units 54.00 hours lecture. Non-Degree Credit

Advisory: Private Pilot's Certificate and AERO 30 or Instrument Rating
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.

AERO 58 — Flight Instructor Ground School

54.00 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 knowledge tests for Flight Instructors.

AGRICULTURE: AGRI-BUSINESS

AGAB 20 — Microcomputer Applications in Agriculture 3 Units 54.00 hours lecture. Degree Appropriate, CSU, UC

(CAN AG 2)

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

Cluster repeatability:

Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Clusters: AGHE 83A, AGHE 83B

AGHE 54 — Veterinary Office Procedures

3 Units

4 Units

54.00 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

54.00 hours lecture. Degree Appropriate, CSU

54.00 hours lab.

Prerequisite: AGLI 95 and formal admittance to the Registered Veterinary Technology program

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 61 — Surgical Nursing

4 Units

54.00 hours lecture.

Degree Appropriate, CSU

54.00 hours lab.

Prerequisite: AGHE 60

Surgical preparation, surgical assistance, post-operative care, administer and monitor anesthesia, dentistry, CPR, sterilization and the maintenance of a sterile environment.

AGHE 62A — Clinical Pathology

4 Units

54.00 hours lecture.

Degree Appropriate, CSU

54.00 hours lab.

Prerequisite: AGLI 95

Introduces students to the expansive field of clinical pathology. Topics include hematology, clinical chemistries, internal parasites, immunology, serology, and vaginal cytology.

AGHE 62B — Clinical Pathology

4 Units

54.00 hours lecture.

Degree Appropriate, CSU

54.00 hours lab.

Prerequisite: AGLI 95

51B or AGAG 91

Introduces students to the expansive field of clinical pathology. Topics include bacteriology, clinical chemistry, urinalysis, external parasites, and cytology.

AGHE 64 — Veterinary Pharmacology

3 Units

54.00 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

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 measures, drug dosage flow rates, pharmacological mathematics and the metric system, side effects and drug interactions.

AGHE 65 — Veterinary Radiography

2 Units

18.00 hours lecture. Degree Appropriate, CSU 54.00 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.

AGHE 79 — Laboratory Animal Medicine and Care

3 Units

36.00 hours lecture.

lecture. Degree Appropriate, CSU

54.00 hours lab.

Laboratory animal medicine, care and procedures, rules and regulations governing laboratory animals.

AGHE 83A — Work Experience in Animal Health 75.00 hours lab.

Degree Appropriate

1 Unit

(May be taken four times for credit.)

(May be taken for Credit/No Credit only.)

Prerequisite: Formal admittance and enrollment in the Registered Veterinary Technology Program. Compliance with Work Experience regulations as designated in the College Catalog

This course is designed to provide Registered Veterinary Technician majors with actual on-the-job experience at 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.

AGHE 83B — Work Experience in Animal Health

150.00 hours lab.

Degree Appropriate

2 Units

(May be taken four times for credit.)

(May be taken for Credit/No Credit only.)

Prerequisite: Formal admittance and enrollment in the Registered Veterinary Technology Program, 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.

AGHE 84A — Applied Animal Health Procedures

1 Unit

54.00 hours lecture.

Fall Semester

Degree Appropriate

Fall 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 procedures and techniques, including treatments and minor surgical procedures with domestic farm animals. Experiences with animals will vary due to seasonal changes and different husbandry practices during fall and spring.

AGHE 84B — Applied Animal Health Procedures

1 Unit

Spring Semester 54.00 hours lab.

Degree Appropriate

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 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 18.00 hours lecture. Degree Appropriate

Prerequisite: Completion of the Registered Veterinary Technology program or consent of instructor.

Group study course designed to help students with success on their national and state registration examinations. Course includes exposure to the types of questions encountered in registration examinations, question analysis strategies, and review of important anatomical, physiological, and nursing concepts.

AGHE 86 — Anatomy and Physiology of Domestic Animals 4 Units 54.00 hours lecture. Degree Appropriate, CSU

54.00 hours lab.

Prerequisite: Formal admittance to the Registered Veterinary Technology

Analyzes the body structures and systems, comparing domestic animals commonly found in veterinary medicine. The physiology section will emphasize functions of internal organs and body systems.

AGRICULTURE: ANIMAL SCIENCE-GENERAL

AGAN 1 — Animal Science

54.00 hours lecture.

3 Units

Degree Appropriate, CSU, UC

(CAN AG 6)

Fundamental problems and essential concepts of animal production. Includes the study of the types of domestic animals and their utilization by humans.

AGAN 2 — Animal Nutrition

3 Units

54.00 hours lecture. (CAN AG 12)

Degree Appropriate, CSU, UC

Composition of feeds and their utilization by domestic animals, including digestive physiology, animal assessment, feed appraisal and compiling of rations.

AGAN 51 — Animal Handling and Restraint

3 Units

36.00 hours lecture. Degree Appropriate, CSU

54.00 hours lab.

Methods of proper handling for large and small animals, including chemical and physical techniques of restraint.

AGAN 94 — Animal Breeding

3 Units

54.00 hours lecture. Degree Appropriate 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.

AGRICULTURE: FORESTRY, CONSERVATION

AGFR 20 — Conservation of Natural Resources

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC

Prerequisite: Eligibility for ENGL 68.

Concepts of conservation biology for natural resources, including biogeography, biodiversity and extinction, environmental law, and conservation organizations. Emphasis on temperate forest, tropical forest, desert, and grassland ecosystems.

AGRICULTURE: GENERAL SUBJECTS

Cluster repeatability:

Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Cluster: AGAG 59, AGAG 60, AGAG 61, AGAG 62

AGAG 1 — Food Production, Land Use and Politics 3 Units - A Global Perspective

54.00 hours lecture.

Degree Appropriate, CSU, UC

Surveys the world's food producing systems in terms of economic, political and cultural forces. Emphasizes ethical, sustainable food producing agriculture.

AGAG 59 — Work Experience in Agriculture

1 Unit

Degree Appropriate

75.00 hours lab.

(May be taken four times for credit.)

(May be taken for Credit/No Credit only.)

Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog

This course is designed to provide Animal Science 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 60 — Work Experience in Agriculture

2 Units Degree Appropriate

150.00 hours lab. (May be taken four times for credit.)

(May be taken for Credit/No Credit only.)

Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog

This course is designed to provide Animal Science 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 61 — Work Experience in Agriculture 225.00 hours lab.

3 Units

Degree Appropriate

(May be taken four times for credit.)

(May be taken for Credit/No Credit only.)

Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog.

This course is designated to provide Animal Science 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 62 — Work Experience in Agriculture

300.00 hours lab.

Degree Appropriate

4 Units

(May be taken four times for credit.)

(May be taken for Credit/No Credit only.)

Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog

This course is designed to provide Animal Science 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 Calculations 54.00 hours lecture.

3 Units Degree Appropriate

Prerequisite: Eligibility for MATH 51

Calculating 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 solids non-fat.

AGAG 99 — Special Projects in Agriculture

2 Units

36.00 hours lecture.

Degree Appropriate, CSU

(May be taken four times for credit.)

(May be taken for Credit/No Credit only.)

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 repeating this course will make individual contracts of a more advanced nature with the instructor to insure that proficiencies are enhanced.

AGRICULTURE: LIVESTOCK PRODUCTION

AGLI 12 — Exotic Animal Management

3 Units

54.00 hours lecture. Degree Appropriate 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.

AGLI 14 — Swine Production

3 Units

36.00 hours lecture. (CAN AG 24)

Degree Appropriate, CSU

54.00 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 16 — Horse Production

4 Units

Degree Appropriate, CSU, UC

Fall Semester (CAN AG 26)

54.00 hours lecture.

54.00 hours lab.

Selection, utilization, and management of the light horse emphasizing recreational aspects of the modern horse. Laboratory work includes experience in the care of horse and tack.

AGLI 17 — Sheep Production

3 Units

Spring Semester Degree Appropriate, CSU (CAN AG 22)

36.00 hours lecture.

54.00 hours lab.

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 school farm and sheep farms in the area.

AGLI 18 — Horse Ranch Management

4 Units

54.00 hours lecture. Degree Appropriate, CSU

54.00 hours lab.

Advisory: AGLI 16

Skills and knowledge to work on or manage a modern equine ranch, including management of the breeding farm, farm lay out, estrous cycles, breeding problems and stallion care.

AGLI 19 — Horse Hoof Care

2 Units

18.00 hours lecture. Degree Appropriate, CSU

54.00 hours lab.

Emphasizes proper horse hoof care; shoeing, trimming and disease recognition and control.

AGLI 20 — Horse Behavior and Training

2 Units

18.00 hours lecture. Degree Appropriate

54.00 hours lab.

Corequisite: AGLI 16 or AGLI 18 (may have been taken previously) or equivalent experience with horses

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.

AGLI 30 — Beef Production

3 Units

36.00 hours lecture. Degree Appropriate, CSU

54.00 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.

AGLI 34 — Livestock Judging and Selection

2 Units

18.00 hours lecture. Degree Appropriate, CSU, UC

54.00 hours lab.

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

54.00 hours lecture.

Degree Appropriate, CSU

54.00 hours lab.

Anatomy of domestic animals including body structures and systems, comparing domestic animals commonly found in the veterinary medical industry.

AGLI 96 — Animal Sanitation and Disease Control

3 Units

54.00 hours lecture. Degree Appropriate, CSU Prevention and control of infectious diseases affecting domestic animals, including basic disease concepts, transmission of infectious diseases, principles of sanitation and fundamentals of immunology.

AGLI 97 — Artificial Insemination of Livestock

2 Units

Spring Semester Degree Appropriate

18.00 hours lecture.

54.00 hours lab.

Theory and application of artificial insemination of domestic animals, including semen evaluation and processing, heat synchronization, and pregnancy diagnosis.

AGLI 98 — Physiology of Domestic Animals

2 Units

36.00 hours lecture.

Degree Appropriate

Prereauisite: AGLI 95

Physiology of domestic animals with emphasis on the function of internal organs and body systems. Designed for the second year Registered Veterinary Technology student in preparation for the state board examination.

AGRICULTURE: ORNAMENTAL HORTICULTURE

Cluster repeatability:

Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Cluster: AGOR 91, AGOR 92, AGOR 93, AGOR 94

AGOR 1 — Horticultural Science

3 Units

54.00 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.

AGOR 2 — Plant Propagation/Greenhouse Management 3 Units 36.00 hours lecture. Degree Appropriate, CSU

54.00 hours lab.

ee Appropriate, CSU | 50.00 III

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.

AGOR 4 — Park Management 3 Units

54.00 hours lecture. Degree Appropriate Management and operation of municipal park departments. Includes the development of budgets, purchasing, park policies, planning and scheduling. Field trip required.

AGOR 5 — Park Facilities 3 Units

54.00 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.

AGOR 13 — Landscape Design 3 Units

36.00 hours lecture. Degree Appropriate, CSU

54.00 hours lab.

Fundamentals and implementation of landscape design. Principles of design, the design process, drafting, graphics, site evaluation, landscaping materials, and plant usage. Projects emphasize residential and small commercial sites.

AGOR 15 — Interior Landscaping 3 Units

54.00 hours lecture.

(May be taken for option of letter grade or Credit/No Credit.)

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

36.00 hours lecture. Degree Appropriate, CSU

54.00 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 29 — Ornamental Plants - Herbaceous 3 Units

36.00 hours lecture. Degree Appropriate, CSU, UC

54.00 hours lab.

Identification, growth 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 from the California Association of Nurseries and Garden Centers (CANGC) and California Landscape Contractors Association (CLCA) certification test plant lists.

AGOR 30 — Ornamental Plants - Trees and Woody Shrubs 3 Units 36.00 hours lecture. Degree Appropriate, CSU, UC

54.00 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

Fall Semester Degree Appropriate, CSU

36.00 hours lecture. 54.00 hours lab.

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 required.

AGOR 39 — Turf Grass Production and Management 3 Units

Fall Semester Degree Appropriate, CSU

36.00 hours lecture.

54.00 hours lab.

Introduction to cultivation, maintenance, and management of turfgrasses utilized for athletic fields, golf courses, parks, cemeteries, and commercial and residential lawns. Identification, installation, cultural requirements, and maintenance practices are emphasized. Field trips required.

AGOR 40 — Sports Turf Management

Spring Semester Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.)
36.00 hours lecture.

54.00 hours lab.

Prerequisite: AGOR 39 or equivalent experience

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 included.

AGOR 50 — Soil Science and Management 3 Units

36.00 hours lecture. Degree Appropriate, CSU, UC 54.00 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 and interactions. Field trips are included.

AGOR 51 — Tractor and Landscape Equipment Operations 3 Units Degree Appropriate, CSU

(May be taken for option of letter grade or Credit/No Credit.) 36.00 hours lecture.

54.00 hours lab.

Selection, operation, repair and maintenance of power equipment used in the landscape industry. Includes 2WD and 4WD tractors, skip loader, skid steer loader, backhoe, lawnmowers, edgers, weed eaters, blower/vacuum, rotatillers, chainsaws, spraying equipment and all-terrain vehicles. Laboratory includes actual hands-on applications of this equipment.

AGOR 52 — Hydraulics

3 Units

36.00 hours lecture.

Degree Appropriate, CSU

54.00 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

(May be taken for option of letter grade or Credit/No Credit.) 36.00 hours lecture.

54.00 hours lab.

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.

AGOR 54 — Small Engine Repair II

3 Units

Degree Appropriate, CSU

(May be taken for option of letter grade or Credit/No Credit.) 36.00 hours lecture.

54.00 hours lab.

3 Units

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 Repair

3 Units

Degree Appropriate, CSU

(May be taken for option of letter grade or Credit/No Credit.) 36.00 hours lecture.

54.00 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.)

36.00 hours lecture.

54.00 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.

AGOR 57 — Power Train Repair

3 Units

Degree Appropriate

(May be taken for option of letter grade or Credit/No Credit.) 36.00 hours lecture.

54.00 hours lab.

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.

AGOR 62 — Landscape Irrigation - Design and Installation 3 Units Degree Appropriate, CSU

(May be taken for option of letter grade or Credit/No Credit.) 36.00 hours lecture.

54.00 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 63 — Landscape Irrigation Systems Management 3 Units Degree Appropriate

(May be taken for option of letter grade or Credit/No Credit.) 36.00 hours lecture.

54.00 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 64 — Landscape Irrigation - Drip and Low Volume 3 Units Degree Appropriate

(May be taken for option of letter grade or Credit/No Credit.) 36.00 hours lecture.

54.00 hours lab.

Conservation of water in the landscape by utilization of drip and lowflow irrigation practices. Design, operation and maintenance of drip and low-flow irrigation systems, including determination of irrigation 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

Degree Appropriate, CSU

3 Units

3 Units

(May be taken for option of letter grade or Credit/No Credit.) 36.00 hours lecture.

54.00 hours lab.

Advisory: Eligibility for ENGL 68

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.

AGOR 72 — Landscape Hardscape Applications

Degree Appropriate, CSU

(May be taken for option of letter grade or Credit/No Credit.) 36.00 hours lecture.

54.00 hours lab.

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 73 — Landscaping Laws, Contracting, and Estimating 3 Units 54.00 hours lecture. Degree Appropriate, CSU

(May be taken for option of letter grade or Credit/No Credit.) 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.

AGOR 75 — Urban Arboriculture 3 Units

Degree Appropriate

(May be taken for option of letter grade or Credit/No Credit.) 36.00 hours lecture.

54.00 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.

AGOR 91 — Work Experience in Nursery Operations 54.00 hours lab.

Degree Appropriate

1 Unit

(May be taken four times for credit.)

(May be taken for Credit/No Credit only.)

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 at an approved work site using skills and knowledge from 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. 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.

AGOR 92 — Work Experience in Nursery Operations 150.00 hours lab.

2 Units Degree Appropriate

(May be taken four times for credit.)

(May be taken for Credit/No Credit only.)

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 at an approved work site using skills and knowledge from 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. 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.

AGOR 93 — Work Experience in Nursery Operations 225.00 hours lab.

3 Units Degree Appropriate

(May be taken four times for credit.)

(May be taken for Credit/No Credit only.)

Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog.

Provides on the job experience in horticulture fields 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 advanced standing (minimum 12 units in major or equivalent experience.) Students who repeat this course will improve skills through further instruction and practice.

AGOR 94 — Work Experience in Nursery Operations 4 Units

300.00 hours lab. Degree Appropriate

(May be taken four times for credit.)

(May be taken for Credit/No Credit only.)

Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog.

Provides on the job experience in horticulture fields 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 advanced standing (minimum 12 units in major or equivalent experience.) Students who repeat this course will improve skills through further instruction and practice.

AGRICULTURE: PET SCIENCE

AGPE 70 — Pet Shop Management

3 Units

Fall Semester 54.00 hours lecture. Degree Appropriate

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.

AGPE 71 — Canine Management

3 Units

36.00 hours lecture.

Degree Appropriate

54.00 hours lab.

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 and training of dogs. May include field trips.

AGPE 72 — Feline Management

3 Units

54.00 hours lecture.

Degree Appropriate

Advisory: Eligibility for ENGL 68

Care and management of cats. Includes breed identification and characteristics, grooming, showing, nutrition, practical care, behavior, breeding, and housing.

AGPE 73 — Tropical and Coldwater Fish Management 2 Units Fall Semester

Degree Appropriate

36.00 hours lecture.

Advisory: Eligibility for ENGL 68

Care and keeping of marine and freshwater aquarium fishes, plants, and invertebrates. Includes guidance on setting up aguariums, choosing compatible species, feeding, health care, breeding and raising fish.

AGPE 74 — Reptile Management

Advisory: Eligibility for ENGL 68

raising of reptiles will be offered.

2 Units

Degree Appropriate 36.00 hours lecture. 3 Units

72.00 hours lab.

Degree Appropriate

Principles of mechanical refrigeration based on the refrigeration cycle and associated mechanical components. Develops skills for interpreting service gauge pressures and sensible temperatures, system dehydration techniques, and the safe handling and containment of refrigerants.

AIRC 25 — Electrical Fundamentals for Air Conditioning and Refrigeration

AIRC 20 — Refrigeration Fundamentals

4 Units

54.00 hours lecture.

Degree Appropriate

54.00 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 trouble shooting.

AIRC 26A — Heat Pump Fundamentals

1.5 Units

27.00 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.

AIRC 26B — Gas Heating Fundamentals

2 Units

36.00 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 including the properties of fuel gasses, gas combustion, furnace construction, pilot proving devices and ignition systems.

AIRC 30 — Heat Load Calculations

3 Units

54.00 hours lecture.

Degree Appropriate

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

54.00 hours lecture.

Degree Appropriate

54.00 hours lab.

3 Units

Advisory: AIRC 25 taken prior

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.

AGPE 76 — Aviculture - Cage and Aviary Birds Spring Semester

Degree Appropriate

3 Units

54.00 hours lecture.

Fall Semester

36.00 hours lecture.

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.

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

AIR CONDITIONING AND REFRIGERATION

Cluster repeatability:

Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Cluster: AIRC 95, AIRC 96, AIRC 97, AIRC 98

AIRC 10 — Technical Mathematics 2 Units in Air Conditioning and Refrigeration

27.00 hours lecture. Degree Appropriate

27.00 hours lab.

Develops mathematical skills required for the study and application of air conditioning and refrigeration including measurements and equations applied to heat loads, air distribution, electricity, and the design of air conditioning and refrigeration equipment.

AIRC 11 — Welding for Air Conditioning and Refrigeration 2 Units Degree Appropriate 18.00 hours lecture.

54.00 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.

AIRC 12 — Air Conditioning Codes and Standards

54.00 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.

AIRC 32A — Air Properties and Measurement

27.00 hours lecture. Degree Appropriate

Advisory: AIRC 20, AIRC 30 taken prior

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, dew point temperatures, and sensible and latent heat processes.

AIRC 32B — Air Distribution Systems

1.5 Units

1.5 Units

27.00 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

54.00 hours lecture. Degree Appropriate

54.00 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 interpretation 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.

AIRC 37 — Pneumatic Controls

2 Units

27.00 hours lecture.

Degree Appropriate

27.00 hours lab.

Advisory: AIRC 20 taken prior

Pneumatic controls including thermostats, valves, receiver controllers and dampers applied to various commercial air conditioning and refrigeration systems.

AIRC 39 — Building Automation Systems

4 Units

54.00 hours lecture.

Degree Appropriate

54.00 hours lab.

Advisory: AIRC 32A, AIRC 32B taken prior

Principles of building automation systems applied to air conditioning systems, chiller plant operation, and air distribution. Includes the application of variable air volume, constant air systems, multizone systems and controlled devices used in automated air conditioning systems. Emphasis on programming strategies applied to mechanical trainers.

AIRC 95 — Work Experience in Air Conditioning and Refrigeration

75.00 hours lab.

Non-Degree Credit

1 Unit

(May be taken four times for credit.)

(May be taken for Credit/No Credit only.)

Prerequisite: Approval of college Work Experience supervisor and compliance with Work Experience regulations as designated in the College Cataloa

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.

AIRC 96 — Work Experience in Air Conditioning and Refrigeration

150.00 hours lab.

Non-Degree Credit

2 Units

(May be taken four times for credit.)

(May be taken for Credit/No Credit only.)

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 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.

AIRC 97 — Work Experience in Air Conditioning and Refrigeration

225.00 hours lecture.

Non-Degree Credit

3 Units

(May be taken four times for credit.)

(May be taken for Credit/No Credit only.)

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 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.

AIRC 98 — Work Experience in Air Conditioning and Refrigeration

4 Units

300.00 hours lecture.

Non-Degree Credit

(May be taken four times for credit.)

(May be taken for Credit/No Credit only.)

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 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.

AIR TRAFFIC CONTROL

AIRT 41 — Aircraft Recognition and Performance 2 Units

36.00 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

54.00 hours lecture.

Advisory: AERO 23 and TRAN 17

Aircraft operation in the National Airspace System. Control tower operations, terminal and enroute radar control. Coordination and control within an ATC team environment. Radio communication techniques and phraseology. Non-radar control and separation procedures.

AIRT 43 — Air Traffic Control Team Skills

1.5 Units

27.00 hours lecture. *Advisory: AIRT 42*

Degree Appropriate, CSU

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.

AIRT 45 — Flight Services

3 Units

54.00 hours lecture. Advisory: AERO 23, AERO 29 Degree Appropriate, CSU

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

Degree Appropriate 75.00 hours lab.

(May be taken four times for credit.)

(May be taken for Credit/No Credit only.)

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.

AIRT 51 — Air Traffic Control Laboratory

54.00 hours lab. Degree Appropriate

Advisory: AERO 23, AERO 26, AERO 29

Concepts, procedures, and skills related to air traffic control. Microphone technique, voice control, phraseology, facility and interfacility coordination, strip markings, airport traffic control, weather observing, and control tower functions.

AIRT 55 — Terminal Radar Approach Control Laboratory 1 Unit 54.00 hours lab. Degree Appropriate

(May be taken two times for credit.)

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.

AIRCRAFT MAINTENANCE TECHNOLOGY

Cluster repeatability:

Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Cluster: AIRM 80, AIRM 81

AIRM 65A — Aircraft Powerplant Maintenance Technology 12 Units Fall Semester Degree Appropriate, CSU

108.00 hours lecture.

324.00 hours lab.

Advisory: AIRM 70A, AIRM 71

Theory and maintenance of aircraft powerplant including systems and components. Approved by the FAAand required for the Airframe & Aircraft Powerplant Maintenance Technology Major.

AIRM 65B — Aircraft Powerplant Maintenance Technology 12 Units Spring Semester Degree Appropriate

108.00 hours lecture.

1 Unit

1 Unit

324.00 hours lab.

Advisory: AIRM 70B, AIRM 72, AIRM 73

Continuation of Aircraft Powerplant Maintenance Technology 65A. focusing on reciprocating engine systems and components and turbine engine systems and components. Approved by the FAA and required forthe Airframe and Aircraft PoweMaintenance Technology major.

AIRM 66A — Airframe Maintenance Technology 12 Units Fall Semester

Degree Appropriate, CSU

108.00 hours lecture.

324.00 hours lab.

Advisory: AIRM 70A, AIRM 71

Theory of flight. Inspection, maintenance, repair, and alteration of aircraft structures. Approved by the FAA and required for the Airframe ands Aircraft Powerplant Maintenance Technology major.

AIRM 66B — Airframe Maintenance Technology

Degree Appropriate

12 Units

Spring Semester

108.00 hours lecture.

324.00 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 70A — Aircraft Maintenance Electricity and Electronics 3 Units 36.00 hours lecture. Degree Appropriate

72.00 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 storagebatteries, 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 70B — Aircraft Maintenance Electricity and Electronics 3 Units 36.00 hours lecture. Degree Appropriate

72.00 hours lab.

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 Airc raft Powerplant Maintenance Technology major.

AIRM 71 — Aviation Maintenance Science

6 Units

108.00 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.

AIRM 72 — Aviation Materials and Processes

1.5 Units

18.00 hours lecture.

Degree Appropriate

36.00 hours lab.

Advisory: AIRM 70B, AIRM 73

An FAA approved course covering aviation materials, non-destructive testing, basic heat-treating and an introduction to machine tool operation.

AIRM 73 — Aviation Welding

1.5 Units

Degree Appropriate

36.00 hours lab.

18.00 hours lecture.

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 m ajor.

AIRM 74 — Aircraft Maintenance Technology - Work Experience

2 Units

Degree Appropriate

90.00 hours lab. (May be taken for Credit/No Credit only.)

Prerequisite: AIRM 65A and AIRM 65B or AIRM 66A and AIRM 66B 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 80 — Lab Studies in Aircraft Maintenance Technology .5 Unit 27.00 hours lab. Degree Appropriate

(May be taken four times for credit.)

(May be taken for Credit/No Credit only.)

Advisory: AIRM 65 A/B, or AIRM 66 A/B, or AIRM 90-93 A/B,

or AIRM 95-98 A/B, or equivalent

Additional lab instruction for students needing FAA required hours to complete a training certificate or requiring remediation of program modules or completion of laboratory assignments, 108 lab hours maximum available. Students who repeat this course will improve skills through further instruction and practice.

AIRM 81 — Lab Studies in Aircraft Maintenance Technology 1 Unit 54.00 hours lab. Non-Degree Credit

(May be taken four times for credit.)

(May be taken for Credit/No Credit only.)

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 this course will improve skills through further instruction and practice.

AIRM 90A — Airframe Maintenance Technology

Spring Semester

3 Units Degree Appropriate

36.00 hours lecture.

72.00 hours lab.

Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73

A FAA approved course covering aircraft flight, flight control and construction methods and procedures.

AIRM 90B — Airframe Maintenance Technology

Spring Semester

Degree Appropriate

3 Units

36.00 hours lecture.

72.00 hours lab.

Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73

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 91A — Airframe Maintenance Technology

3 Units Fall Semester Degree Appropriate

36.00 hours lecture.

72.00 hours lab.

Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73

Aircraft wood structures, their coverings and finishes. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major.

AIRM 91B — Airframe Maintenance Technology

3 Units Fall Semester Degree Appropriate

36.00 hours lecture.

72.00 hours lab.

Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73 Metals and composite materials used in aircraft construction, maintenance, and repair. Approved by the FAA and required for the Airframe and AircraftPowerplant Maintenance Technology major.

AIRM 92A — Airframe Maintenance Technology

Spring Semester

Degree Appropriate

36.00 hours lecture.

72.00 hours lab.

Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73 Aircraft hydraulic and pneumatic power systems, landing gear and wheel and brake systems. FAA approved. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major.

AIRM 92B — Airframe Maintenance Technology

3 Units Spring Semester Degree Appropriate

36.00 hours lecture.

72.00 hours lab.

Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73 Aircraft warning systems, aircraft instrument systems and aircraft fuel storage and transfer systems. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology Major.

AIRM 93A — Airframe Maintenance Technology

Fall Semester

Degree Appropriate

36.00 hours lecture.

72.00 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.

AIRM 93B — Airframe Maintenance Technology

3 Units

36.00 hours lecture. Degree Appropriate

72.00 hours lab.

Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73 Aircraft fire detection and suppression systems. Aircraft inspection requirements and procedures. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major.

AIRM 95A — Aircraft Powerplant Maintenance Technology 3 Units 36.00 hours lecture. Degree Appropriate

72.00 hours lab.

Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73 A FAA approved course covering piston powerplant theory. Includes

calculations and construction methods.

AIRM 95B — Aircraft Powerplant Maintenance Technology 3 Units Spring Semester Degree Appropriate

36.00 hours lecture.

72.00 hours lab.

Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73

A FAA approved course covering piston engine overhaul, inspection, and troubleshooting procedures.

AIRM 96A — Aircraft Powerplant Maintenance Technology 3 Units Fall Semester Degree Appropriate

36.00 hours lecture.

3 Units 72.00 hours lab.

Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73

Aircraft turbine engine history, construction, thrust formulas and turbine engine types. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology Major. Required for FAA certification.

AIRM 96B — Aircraft Powerplant Maintenance Technology 3 Units Fall Semester Degree Appropriate

36.00 hours lecture.

72.00 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 FAA certification.

3 Units AIRM 97A — Aircraft Powerplant Maintenance Technology 36.00 hours lecture. Degree Appropriate

72.00 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.

AIRM 97B — Aircraft Powerplant Maintenance Technology 3 Units Spring Semester Degree Appropriate

36.00 hours lecture.

72.00 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 Airframe and Aircraft Powerplant Maintenance Technology major.

AIRM 98A — Aircraft Powerplant Maintenance Technology 3 Units Fall Semester Degree Appropriate

36.00 hours lecture.

72.00 hours lab.

Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73 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 36.00 hours lecture. Degree Appropriate 72.00 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.

ALCOHOL DRUG COUNSELING

AD 1 — Alcohol/Drug Dependency

3 Units

54.00 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.

AD 2 — Physiological Effects of Alcohol/Drugs

3 Units

54.00 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: 3 Units Intervention, Treatment and Recovery

54.00 hours lecture. Degree Appropriate, CSU Examines 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 Violence

3 Units

3 Units

54.00 hours lecture. Degree Appropriate Examines the history, law and psychology of domestic violence; cultural/social aspects; relationship to substance abuse.

AD 5 — Chemical Dependency: Prevention and Education 1.5 Units 27.00 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.

AD 6 — Dual Diagnosis

54.00 hours lecture.

Degree Appropriate, CSU

Overview 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 Leadership 3 Units

54.00 hours lecture. Degree Appropriate Advisory: AD 1, AD 2, AD 3 taken prior and AD 4, AD 5, AD 6 taken prior or concurrently

Introduces the theory and practice of group counseling, the group process and dynamics of group interaction.

AD 9 — Family Counseling 3 Units

54.00 hours lecture. Degree Appropriate

Advisory: AD 1, AD 2, AD 3 taken prior and AD 4, AD 5, AD 6 taken prior or

concurrently

Introduces 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 Documentation 1.5 Units

Spring Semester Degree Appropriate 27.00 hours lecture.

Advisory: AD 1, AD 2, AD 3 taken prior and AD 4, AD 5, AD 6 taken prior or concurrently

Identify documentation methods required by government regulatory bodies in clinical records. Emphasis on biopsychosocial history.

AD 11 — Techniques of Intervention and Referral

54.00 hours lecture. Degree

Degree Appropriate
5, AD 6 taken prior or

3 Units

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.

AD 13 — Internship/Seminar

3.5 Units

(May be taken for Credit/No Credit only.) Degree Appropriate, CSU 27.00 hours lecture.

126.00 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 concurrently

The first of a two-semester sequence which places students in Alcohol/Drug Abuse agencies and organizations. This first semester 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 27.00 hours lecture.

126.00 hours lab.

Advisory: AD 10 and AD 13

Second semester course focusing on the application of values, concepts and skills learned toactual process of helping chemically dependent persons.

AMERICAN LANGUAGE

AMLA 215 — Accent Reduction

2 Units

(May be taken two times for credit.) Pre-Collegiate (May be taken for option of letter grade or Credit/No Credit.) 36.00 hours lecture.

Pronunciation and listening for non-native speakers with emphasis on articulation, stress and intonation patterns, and listening. Students will analyze individual pronunciation strengths and weaknesses.

AMLA 225 — American Language Interpersonal Communication 2 Units (May be taken two times for credit.) Pre-Collegiate

(May be taken for option of letter grade or Credit/No Credit.) 36.00 hours lecture.

Enhances ability of non-native speakers to communicate in every day and academic situations. Emphasis on grammatical accuracy and sophistication as well as confidence in communications in personal and professional settings.

AMLA 23S — American Language Formal Speaking

2 Units Pre-Collegiate

(May be taken two times for credit.)

(May be taken for option of letter grade or Credit/No Credit.) 36.00 hours lecture.

Advisory: Eligibility for AmLa 41W.

Enhances the ability of non-native speakers to listen effectively and speak formally in a variety of situations. Emphasis is on note-taking, outlining, organizing speeches, and verbal articulation of ideas.

AMLA 24 — Idiomatic English

2 Units

(May be taken two times for credit.)

Pre-Collegiate
(May be taken for option of letter grade or Credit/No Credit.)

36.00 hours lecture.

Intermediate course in the study of idiomatic language, including common American idioms and proverbs, as used in everyday language situations.

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.)

72.00 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 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.) 72.00 hours lecture.

Prerequisite: Successful completion of AMLA 31R, or satisfactory score on appropriate Reading Placement Test, or successful completion of 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

4 Units
Pre-Collegiate

(May be taken two times for credit.)

(May be taken for option of letter grade or Credit/No Credit.) 72.00 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.

5 Units

5 Units

AMLA 41W — American Language Basic Writing

(May be taken two times for credit.)

4 Units (May be taken two times for credit.)

Pre-Collegiate (May be taken for option of letter grade or Credit/No Credit.) 72.00 hours lecture.

Prerequisite: Satisfactory score on the English Placement Test or successful completion of noncredit ESL level 4

Advisory: AMLA 31R taken prior or concurrently

Basic grammar and writing for non-native speakers. Students who repeat this course will improveskills through further instruction and practice.

AMLA 42W — American Language Intermediate Writing 4 Units (May be taken two times for credit.) Pre-Collegiate

(May be taken for option of letter grade or Credit/No Credit.) 72.00 hours lecture.

Prerequisite: Satisfactory score on the English Placement Test or successful completion of AMLA 41W or noncredit ESL level 5 or 6 or VESL Advisory: AMLA 32R taken prior or concurrently

Intermediate grammar and writing for non-native speakers. Students who repeat this course will improve skills through further instruction and practice.

AMLA 43W — American Language Advanced Writing

4 Units

(May be taken two times for credit.) Pre-Collegiate (May be taken for option of letter grade or Credit/No Credit.) 72.00 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 repeat this course will improve skills through further instruction and practice.

AMLA 56 — American Language Nouns and Articles

1 Unit Pre-Collegiate

(May be taken two times for credit.) (May be taken for option of letter grade or Credit/No Credit.) 18.00 hours lecture.

Concentrates on count and non-count nouns, article usage and other determiners for non-native learners of English. Writing practice and exercises will emphasize correct usage of these structures in writing and speaking. Students who repeat this course will improve skills through further instruction and practice.

AMLA 57 — American Language Verb Review I

1 Unit

(May be taken two times for credit.) Pre-Collegiate (May be taken for option of letter grade or Credit/No Credit.) 18.00 hours lecture.

Concentrates on verb tense, form, and use for non-native learners of English, 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.

AMLA 58 — American Language Verb Review II

18.00 hours lecture.

18.00 hours lecture.

(May be taken for option of letter grade or Credit/No Credit.)

for non-native English students. Exercises and writing practice will

(May be taken for option of letter grade or Credit/No Credit.)

emphasize improved verb usage in writing. Students who repeat this

1 Unit Pre-Collegiate

54.00 hours lecture.

Degree Appropriate, CSU, UC

108.00 hours lab.

Advisory: BIOL 1, BIOL 4

ANAT 35 — Human Anatomy

Structure of the organ systems at the gross, subgross, and microscopic levels based on human material and dissection of the cat. Designed to serve as an introduction to vertebrate embryology.

course will improve their skills through further instruction and practice. AMLA 59 — American Language Prepositions

Designed to help non-native learners of English practice their use of

prepositions and idiomatic expressions through reading and will apply

their knowledge to written work. Students who repeat this course will

prepositions in spoken and written English. Students will analyze

Advanced work on modals, passive voice, passive modals, and conditionals

1 Unit Pre-Collegiate

(CAN BIOL12)

Degree Appropriate, CSU, UC

ANAT 35+36 = CAN BIOL SEQ B

ANAT 36 — Human Physiology

54.00 hours lecture.

108.00 hours lab.

Prerequisite: ANAT 35 and CHEM 10 or CHEM 40 or one year of highschool

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 integration of organ systems where appropriate.

improve skills through further instruction and practice. AMLA 60 — American Language Verb Review III

(May be taken two times for credit.)

(May be taken two times for credit.)

Pre-Collegiate

1 Unit

(May be taken for option of letter grade or Credit/No Credit.) 18.00 hours lecture.

Advanced work on gerunds, infinitives and participles for non-native English students. Exercises and writing practice will emphasize improved verbal usage in writing. Students who repeat this course will improve skills through further instruction and practice.

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.)

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.

18.00 hours lecture.

ANATOMY AND PHYSIOLOGY

ANAT 10A — Introductory Human Anatomy

4 Units

54.00 hours lecture. Degree Appropriate, CSU, UC 54.00 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.

ANAT 10B — Introductory Human Physiology

4 Units

54.00 hours lecture. Degree Appropriate, CSU, UC 54.00 hours lab.

Prerequisite: ANAT 10A or ANAT 35

Advisory: CHEM 10 or CHEM 40

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).

ANAT 40 — Human Prosection

2 Units

(May be taken four times for credit.) Degree Appropriate, CSU 108.00 hours lab.

Prerequisite: Completion of ANAT 35

Techniques for human prosection. Regional exploration of the human organ systems at the gross level.

ANAT 50 — Basic Anatomy and Physiology

3 Units

54.00 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) 54.00 hours lecture. Degree Appropriate, CSU, UC

Prereauisite: Eliaibility 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 1H — Biological Anthropology - Honors

(CAN ANTH 2) Degree Appropriate, CSU, UC

54.00 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 directed discussions and more extensive writing assignments. Students may not receive credit for both ANTH 1 and ANTH 1H.

ANTH 1L — Biological Anthropology Laboratory

1 Unit 54.00 hours lab. Degree Appropriate, CSU, UC Corequisite: ANTH 1 or ANTH 1H (May have been taken previously) Scientific study of human evolution. Students will generate and test

hypotheses using the techniques and materials of biological anthropology. Includes genetic observations and calculations. osteological techniques and measurements, and primate behavior observations. One field trip to a zoo for primate observation is required.

ANTH 3 — Archaeology

3 Units

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) Prerequisite: Eligibility for ENGL 68

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 this change on prehistoric cultures.

ANTH 5 — Principles of Cultural Anthropology 3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC 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.

ANTH 22 — General Cultural Anthropology 3 Units

54.00 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 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

2 Units

4 Units

4 Units

Degree Appropriate, CSU

ARCH 11 — Architectural Drawing 36.00 hours lecture.

3 Units Degree Appropriate, CSU, UC

72.00 hours lab.

Advisory: Eligibility for MATH 51

Basic graphic and drawing techniques, including architectural graphics, building construction fundamentals, and methods of drawings considered prerequisite to architectural design.

ARCH 12 — Architectural Materials and Specifications

54.00 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

3 Units

36.00 hours lecture.

Degree Appropriate, CSU, UC

72.00 hours lab.

Advisory: ARCH 11 or equivalent experience

Architectural and interior illustration including perspective drawing. sketching, shades and shadows, entourage, and color application utilizing various media and development of project portfolio.

ARCH 14 — Building and Zoning Codes

3 Units

54.00 hours lecture.

Degree Appropriate

Advisory: ARCH 11 or equivalent experience

Building 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.

ARCH 15 — Architectural Working Drawings - I

3 Units

36.00 hours lecture. 72.00 hours lab.

Degree Appropriate, CSU

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.) 54.00 hours lecture.

Degree Appropriate, CSU, UC

54.00 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.

54.00 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 and contemporary issues for modern Native Americans.

ANTH 99 — Special Projects in Anthropology 36.00 hours lecture. Degree Appropriate, CSU

(May be taken four times for credit.)

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.

ARABIC

ARAB 1 — Elementary Arabic

Fall Semester

72.00 hours lecture.

Intended for students with little or no previous exposure to Arabic. Begins to develop elementary reading, writing, and speaking skills in Modern Standard Arabic. Focuses on mastery of Arabic script, pronunciation, simple grammatical structures, and basic vocabulary, along with an introduction to Arab culture.

ARAB 2 — Continuing Elementary Arabic

Spring Semester

Degree Appropriate, CSU 72.00 hours lecture.

Prerequisite: ARAB 1 or equivalent

Continues to develop elementary reading, writing, and speaking skills in Modern Standard Arabic. Emphasizes verbs, word patterns, and vocabulary building; introduces short authentic texts. Includes some exposure to Formal Spoken Arabic.

ARCHITECTURAL TECHNOLOGY

Cluster repeatability:

Cluster: ARCH 89, ARCH 90

Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

ARCH 10 — Design I - Elements of Design

3 Units Degree Appropriate, CSU

36.00 hours lecture. 72.00 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.

ARCH 18 — Architectural Computer Aided Design Elements 3 Units (May be taken two times for credit.) Degree Appropriate

36.00 hours lecture.

72.00 hours lab.

Advisory: ARCH 11, ARCH 16 or equivalent experience

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. Students who repeat this course will improve skills through further instruction and practice.

ARCH 21 — Design II - Architectural Design

3 Units

36.00 hours lecture.

Degree Appropriate, CSU

72.00 hours lab.

Advisory: ARCH 10, ARCH 11, ARCH 13

Application of methods and theory used in architectural design projects. Includes graphic technique, design process, site analysis, presentation drawings and construction principles. Portfolio will be produced.

ARCH 23 — Architectural Presentations

3 Units

36.00 hours lecture.

Degree Appropriate, CSU

72.00 hours lab.

Advisory: ARCH 10, ARCH 11 taken prior

Analysis and preparation of architectural presentation projects, including 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

3 Units

3 Units

Degree Appropriate (May be taken three times for credit.) 36.00 hours lecture.

72.00 hours lab.

Advisory: ARCH 15, ARCH 18 or equivalent experience

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 Design

36.00 hours lecture. Degree Appropriate, CSU, UC

72.00 hours lab.

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.

ARCH 28 — Architectural CAD 3-D Illustration and Animation 3 Units

(May be taken three times for credit.) Degree Appropriate, CSU

36.00 hours lecture.

72.00 hours lab.

Advisory: ARCH 18 or equivalent experience

Intermediate to advanced architectural CAD in 3-D illustration, rendering and animation. Virtual "walk-through" and "flv-through" of interior/exterior 3-D models with photo-realistic materials and lighting will be produced. Students who repeat this course will improve skills through further instruction and practice.

ARCH 29 — Design IV - Advanced Project

(May be taken two times for credit.) Degree Appropriate, CSU

36.00 hours lecture.

72.00 hours lab.

Advisory: ARCH 23, ARCH 27 or equivalent experience

Advanced design seminars and complex building design projects in architecture, including portfolio development. Students who repeat this course will improve skills through further instruction and practice.

ARCH 31 — World Architecture I

3 Units

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC Development of architecture including ancient Egypt, Europe through the Middle Ages, and classic civilizations of Asia and the Americas. Influence of geography, religion, and socio- economic movements on architecture.

ARCH 32 — World Architecture II

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC Development of modern architecture from the Renaissance to the present day, Influence of environment, religion and socio-economic movements on architecture.

ARCH 89 — Architectural Work Experience

1 Unit Degree Appropriate

(May be taken four times for credit.) (May be taken for Credit/No Credit only.)

75.00 hours lab.

Prerequisite: Compliance with Work Experience regulations as designated in the 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.

ARCH 90 — Architectural Work Experience

2 Units Degree Appropriate

(May be taken four times for credit.) (May be taken for Credit/No Credit only.)

150.00 hours lab.

Prerequisite: Compliance with Work Experience regulations as designated in the 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.

ART HISTORY

AHIS 1 — Understanding the Visual Arts

3 Units

54.00 hours lecture.

Degree Appropriate, CSU, UC

Prereauisite: Eliaibility 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 54.00 hours lecture. Degree Appropriate, CSU, UC

Prerequisite: Acceptance into the Honors Program

Fundamentals of visual art forms and the role art plays in various historical periods and cultures. An honors course designed to provide an enriched experience. Students may not receive credit for both AHIS 1 (formerly ARTA 1) and AHIS 1H.

AHIS 2 — Topics in Visual Art and Culture

3 Units

54.00 hours lecture.

Degree Appropriate, CSU, UC

Advisory: Eligibility for ENGL 1A

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

54.00 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 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 AHIS 2 (formerly ARTA 2) and AHIS 2H.

AHIS 3 — History of Women and Gender in Art 3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC Advisory: Eligibility for ENGL 1A

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 54.00 hours lecture. Degree Appropriate, CSU, UC

Prereauisite: Acceptance into the Honors Program

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 54.00 hours lecture. Degree Appropriate, CSU, UC

Prerequisite: Eligibility for ENGL 68

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: 3 Units Prehistoric Through Gothic - Honors

54.00 hours lecture. Degree Appropriate, CSU, UC

Prerequisite: Acceptance into the Honors Program

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 not receive credit for both AHIS 4 (formerly ARTA 4) and AHIS 4H.

AHIS 5 — History of Western Art: 3 Units Renaissance Through Modern

54.00 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: 3 Units Renaissance Through Modern - Honors

54.00 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 receive credit for both AHIS 5 (formerly ARTA 5) and AHIS 5H.

AHIS 6 — History of Modern Art 3 Units

54.00 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

54.00 hours lecture. Degree Appropriate, CSU, UC

Prerequisite: Acceptance into the Honors Program

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

54.00 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 and Architecture 3 Units 54.00 hours lecture. Degree Appropriate, CSU, UC

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 Art 3 Units 54.00 hours lecture. Degree Appropriate, CSU, UC

Advisory: Eligibility for ENGL 1A

Examination 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 Art

3 Units

54.00 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.

AHIS 12H — History of Precolumbian Art - Honors 3 Units

54.00 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 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.

AHIS 99 — Special Projects in Art History

2 Units

(May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36.00 hours lab.

Advisory: AHIS 1 (formerly ARTA 1)

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.

ART: ADVERTISING DESIGN/GRAPHICS

Cluster repeatability:

Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Cluster: ARTC 78A, ARTC 78B, ARTC 78C

ARTC 60 — Graphic Design: Lettering and Typography 3 Units 36.00 hours lecture. Degree Appropriate, CSU, UC

72.00 hours lab.

Prerequisite: Eligibility for ENGL 68

An entry level course emphasizing creative expression through a variation of design concepts, letter forms and style variation. Emphasis is placed on tools and techniques as applied to comprehensive graphic design images.

ARTC 66 — Portfolio

3 Units

36.00 hours lecture.

Degree Appropriate

72.00 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 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.)
36.00 hours lecture.

70.00 Hours lecture

72.00 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.

ARTC 74 — Computer Graphics: Web Design

3 Units

(May be taken two times for credit.)

Degree Appropriate, CSU

36.00 hours lecture.

72.00 hours lab.

Prerequisite: ARTC 70

Advisory: COMP 13

Professional design concepts applied to the common elements of Web 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: Exploring Digital Illustration 3 Units

(May be taken two times for credit.)

Degree Appropriate

36.00 hours lecture. 72.00 hours lab.

Prerequisite: ARTC 70

Advisory: ARTC 165, ARTD 15A or ANIM 104

Basic principles of art, design and color as it applies to various aspects of digital Illustration. Theory and production of creative illustrations through the use of Adobe Illustrator and Photoshop, Exploration of visual imagery for use in design, illustration and fine arts. Students who repeat this course will improve skills by further instruction and practice.

ARTC 78A — Work Experience in Advertising Design/Illustration 1 Unit (May be taken four times for credit.) Degree Appropriate

(May be taken for Credit/No Credit only.)

75.00 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 equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice.

ARTC 78B — Work Experience in Advertising Design/Illustration 2 Units (May be taken four times for credit.) Degree Appropriate

(May be taken for Credit/No Credit only.)

150.00 hours lab.

Prerequisite: Compliance with Work Experience regulations as designed 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 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.)

225.00 hours lab.

Prerequisite: Compliance with Work Experience regulations as designed 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 equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice.

ARTC 161 — Graphic Design:Layout

3 Units

Degree Appropriate, CSU

(May be taken for option of letter grade or Credit/No Credit.)

36.00 hours lecture.

72.00 hours lab.

Prerequisite: ARTC 60

An introduction to the graphic design process with an emphasis on 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.) 36.00 hours lecture.

Degree Appropriate, CSU

72.00 hours lab.

Corequisite: ARTD 20 or ARTD 15A or ANIM 104 or ARTD 17A or ANIM 101 (May have been taken previously)

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 and Design 3 Units (May be taken two times for credit.) Degree Appropriate, CSU

(May be taken for option of letter grade or Credit/No Credit.)

36.00 hours lecture.

72.00 hours lab.

Prereauisite: 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.

ARTC 172 — Computer Graphics - Multimedia

3 Units

(May be taken two times for credit.) Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.)

36.00 hours lecture. 72.00 hours lab.

Prereauisite: 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 on clarity of communication, design, and technical skills.

ART: ANIMATION

Cluster repeatability:

Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Cluster: ANIM 137A, ANIM 137B, ANIM 137C

ANIM 101 — Drawing - Gesture and Figure

3 Units

(May be taken four times for credit.)

Degree Appropriate, CSU

36.00 hours lecture.

72.00 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 104 — Drawing Fundamentals

3 Units

(May be taken two times for credit.)

Degree Appropriate, CSU

36.00 hours lecture.

72.00 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 107 — Figure in Motion

(May be taken four times for credit.)

Degree Appropriate

3 Units

36.00 hours lecture. 72.00 hours lab.

Prerequisite: ANIM 101

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.

ANIM 108 — Principles of Animation

3 Units

(May be taken two times for credit.)

Degree Appropriate, CSU

36.00 hours lecture.

72.00 hours lab.

Explores the principles of drawing for traditional animation 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

3 Units

(May be taken four times for credit.)

Degree Appropriate

36.00 hours lecture.

72.00 hours lab.

Prerequisite: ANIM 108

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 111 — Animal Drawing

1.5 Units

(May be taken two times for credit.) 18.00 hours lecture.

Degree Appropriate

36.00 hours lab.

Prerequisite: ARTD 15A or ANIM 4 or ANIM 104

Explores both traditional and contemporary approaches to sketching and drawing animals. Gesture, anatomical structure, proportion, line and action analysis will be explored. Requires several off-campus field trips. Students who repeat this course will improve skills through further instruction and practice.

ANIM 115 — Storyboarding

3 Units

(May be taken four times for credit.)

Degree Appropriate

36.00 hours lecture. 72.00 hours lab.

Prerequisite: ARTD 15A or ANIM 104

Storyboarding for animation including script, idea and action development. Staging, expression, emotional appeal, camera movement, dialogue and character enhancement, and development will be included. Students who repeat this course will improve skills through further instruction and practice.

ANIM 116 — Character Development (May be taken four times for credit.)

Degree Appropriate

1.5 Units

18.00 hours lecture.

36.00 hours lab.

Prerequisite: ARTD 15A or ANIM 104

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.

ANIM 117 — Animation Background Layout

3 Units

(May be taken four times for credit.)

Degree Appropriate, CSU

36.00 hours lecture.

72.00 hours lab.

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.

ANIM 118 — Background Painting

3 Units

(May be taken three times for credit.)

Degree Appropriate

36.00 hours lecture.

72.00 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 119 — Portfolio

1.5 Units

(May be taken four times for credit.)

Degree Appropriate

18.00 hours lecture.

36.00 hours lab.

Advisory: ANIM 115 and ANIM 116

Production of a portfolio representative of student interest, strength and skill for entry into animation fields, professional schools, or baccalaureate institutions. Selection of work for a portfolio will be determined by requirements of the animation specialty and institution to which it is directed. Students who repeat this course will improve skills through further instruction and practice.

ANIM 120 — Script Development for Animation

3 Units

(May be taken four times for credit.) 54.00 hours lecture.

Degree Appropriate

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 130 — Introduction to 3-D Computer Animation

Degree Appropriate

3 Units

(May be taken four times for credit.) 36.00 hours lecture.

72.00 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 story board developed for scene sequencing are included. Students who repeat this course will improve skills through further instruction and practice.

ANIM 132 — Modeling, Texture Mapping and Lighting

(May be taken four times for credit.)

Degree Appropriate

3 Units

36.00 hours lecture.

72.00 hours lab.

Advisory: ANIM 130

Explores 3-D poly-spline modeling and texture mapping and rendering 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

1.5 Units

(May be taken four times for credit.)

Degree Appropriate

18.00 hours lecture.

36.00 hours lab.

Advisory: ANIM 132 or ANIM 142

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.

ANIM 135 — Visual Effects II: Particle Systems

1.5 Units

(May be taken four times for credit.)

Degree Appropriate

18.00 hours lecture.

36.00 hours lab.

Advisorv: ANIM 134

Advanced course in the creation of computer animated particle systems that imitate the natural forces of nature, the physical forces of the universe and plasma forces of combustion. Students who repeat this course will improve skills through further instruction and practice.

ANIM 136 — Animation Environment Layout

3 Units

(May be taken four times for credit.) 36.00 hours lecture.

Degree Appropriate

72.00 hours lab.

Advisory: ANIM 132 or ANIM 142

Create a digital 3D environment. Design, model, texture, and light a 3D digital environment for a computer graphics game, TV program or film. Students who repeat this course will improve skills through further instruction and practice.

ANIM 137A — Work Experience in New Digital Media

(May be taken four times for credit.)

Degree Appropriate

1 Unit

(May be taken for Credit/No Credit only.)

75.00 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 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

(May be taken four times for credit.)

Degree Appropriate

2 Units

(May be taken for Credit/No Credit only.)

150.00 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 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.)

225.00 hours lab.

Advisory: Completion of the first and second semester of the Animation 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.

ANIM 145 — Advanced 3-D Modeling

3 Units

(May be taken four times for credit.)

Degree Appropriate

36.00 hours lecture.

72.00 hours lab.

Advisory: ANIM 142 or 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

(May be taken four times for credit.)

Degree Appropriate

3 Units

36.00 hours lecture.

72.00 hours lab.

Advisory: ANIM 132 or 142

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 — Demo-Reel

1.5 Units (May be taken four times for credit.) Degree Appropriate

18.00 hours lecture.

36.00 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 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.)

36.00 hours lecture.

72.00 hours lab.

Prereauisite: ARTC 70

Explores the creative and technical processes for building motiongraphics 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

(May be taken two times for credit.)

Degree Appropriate

36.00 hours lecture.

72.00 hours lab.

Prereauisite: ARTC 70

Principles 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.

ART: BASIC STUDIO ARTS

ARTB 1 — Understanding the Visual Arts 3 Units

54.00 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.

ARTB 14 — Basic Studio Arts

3 Units

36.00 hours lecture.

Degree Appropriate, CSU, UC

72.00 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: GALLERY & PROFESSIONAL PRACTICES

ARTG 20 — Art, Artists and Society

3 Units

36.00 hours lecture.

Degree Appropriate, CSU

72.00 hours lab.

Explores art as a creative process and the role of an artist in contemporary and past societies approached through analysis of art exhibitions and artists 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.

ARTG 21A — Introduction to Exhibition Production

(May be taken two times for credit.)

Degree Appropriate, CSU

36.00 hours lecture.

72.00 hours lab.

Prerequisite: ARTG 20

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.

ARTG 21B — Intermediate Exhibition Production

3 Units Degree Appropriate, CSU

3 Units

(May be taken two times for credit.)

36.00 hours lecture.

72.00 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**

Degree Appropriate

1 Unit

(May be taken two times for credit.) 75.00 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 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 22B — Exhibition Design and Art Gallery **Operation Work Experience**

2 Units

(May be taken two times for credit.) 150.00 hours lab.

Degree Appropriate

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.

ARTG 22C — Exhibition Design and Art Gallery **Operation Work Experience**

2 Units

(May be taken two times for credit.) 225.00 hours lab.

Degree Appropriate

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.

ART: SPECIAL STUDIO ARTS

ARTZ 50 — Specialized Studio-Art Studies

2 Units

(May be taken four times for credit.) Degree Appropriate, CSU, UC 18.00 hours lecture.

54.00 hours lab.

Prerequisite: Satisfactory completion of all courses within a given art emphasis

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.

ART: THREE-DIMENSIONAL STUDIO ARTS

ARTS 22 — Design: Three-Dimensional 3 Units

(CAN ART 16) Degree Appropriate, CSU, UC

36.00 hours lecture.

72.00 hours lab.

Prerequisite: Eligibility for ENGL 68

Develops perception and enhances decision making within the threedimensional world. Emphasis is placed on concept development and artistic expression utilizing principles and elements of threedimensional design as well as practical experiments with various media. ARTS 30A — Ceramics: Beginning

36.00 hours lecture.

Degree Appropriate, CSU, UC

72.00 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.

ARTS 30B — Ceramics: Beginning

3 Units

3 Units

Degree Appropriate, CSU, UC

(May be taken for option of letter grade or Credit/No Credit.) 36.00 hours lecture.

72.00 hours lab.

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.

ARTS 31A — Ceramics: Intermediate

3 Units

36.00 hours lecture. Degree Appropriate, CSU, UC

72.00 hours lab.

Prerequisite: ARTS 30B

Integrating materials and design through advanced problems in the techniques of clay construction, glazing and firing.

ARTS 31B — Ceramics: Intermediate

3 Units

36.00 hours lecture. Degree Appropriate, CSU, UC 72.00 hours lab.

Prereauisite: ARTS 31A

A 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 integrating form and content, mixing glazes and the variety of firing processes.

ARTS 33 — Ceramics: Hand Construction

3 Units

36.00 hours lecture.

Degree Appropriate, CSU, UC

72.00 hours lab.

Introduction to clay, glazes and firing through projects that are hand built. Emphasis is on developing skills and vocabulary and analysis of form, function, aesthetics and craftsmanship through projects, discussion and oral/written criticism.

ARTS 40A — Sculpture: Beginning

3 Units

36.00 hours lecture. 72.00 hours lab.

Degree Appropriate, CSU, UC

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.

ARTS 40B — Sculpture: Beginning

3 Units

Degree Appropriate, CSU, UC (May be taken two times for credit.)

(May be taken for option of letter grade or Credit/No Credit.) 36.00 hours lecture.

72.00 hours lab.

Prereauisite: 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

36.00 hours lecture.

Degree Appropriate, CSU, UC

72.00 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 from the human figure.

ARTS 41B — Sculpture: Life

3 Units

(May be taken four times for credit.)

Degree Appropriate, CSU, UC

36.00 hours lecture.

72.00 hours lab.

Prereauisite: ARTS 41A

Sculptural study of the 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.

ARTS 42 — Sculpture: Mold Making

3 Units

(May be taken two times for credit.) Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 36.00 hours lecture.

72.00 hours lab.

Construction and use of flexible and plaster molds. Students who repeat this course will improve skills by further instruction and practice.

ARTS 46 — Sculpture: Special Effects Makeup

3 Units

(May be taken two times for credit.)

Degree Appropriate

(May be taken for option of letter grade or Credit/No Credit.) 36.00 hours lecture.

72.00 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 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 Degree Appropriate, CSU, UC (CAN ART 8)

36.00 hours lecture.

72.00 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

3 Units

36.00 hours lecture.

Degree Appropriate, CSU, UC

72.00 hours lab.

Prerequisite: ARTD 15A

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.

ARTD 16 — Drawing: Perspective

3 Units

Spring Semester

Degree Appropriate, CSU, UC

(May be taken two times for credit.)

36.00 hours lecture. 72.00 hours lab.

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 17A — Drawing: Life

3 Units

36.00 hours lecture.

Degree Appropriate, CSU, UC

72.00 hours lab.

Prerequisite: ARTD 15A or ANIM 104

Explores 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.

ARTD 17B — Drawing: Life

3 Units

36.00 hours lecture.

Degree Appropriate, CSU, UC

72.00 hours lab. Prerequisite: ARTD 17A

Extends and expands the principles and techniques introduced in ARTD 17A. More emphasis is placed on personal interpretation, individual expression, and media exploration.

ARTD 20 — Design: Two Dimensional (May be taken two times for credit.)

3 Units

Degree Appropriate, CSU, UC

36.00 hours lecture.

72.00 hours lab.

Development of perception through study of the relationships of twodimensional 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 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.

ARTD 21 — Design: Color and Composition

3 Units

Spring Semester (CAN ART 22)

Degree Appropriate, CSU, UC

(May be taken two times for credit.)

36.00 hours lecture.

72.00 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.

ARTD 23A — Drawing: Head and Hands

1.5 Units

(May be taken two times for credit.)

Degree Appropriate, CSU, UC

18.00 hours lecture.

36.00 hours lab.

Prerequisite: ARTD 15A or ANIM 104

Contemporary 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

3 Units

(CAN ART 10)

Degree Appropriate, CSU, UC

36.00 hours lecture.

72.00 hours lab.

Emphasizes creative self-expression through the painting media. Students will develop the ability to conceptualize and solve compositional and technical painting problems.

ARTD 25B — Painting: Beginning

3 Units

36.00 hours lecture.

Degree Appropriate, CSU, UC

72.00 hours lab.

Prereauisite: ARTD 25A

An extension and expansion of principles and techniques introduced in ARTD 25A. More emphasis is placed on personal approach and individual expression.

ARTD 26A — Painting: Intermediate

3 Units

36.00 hours lecture.

Degree Appropriate, CSU, UC

72.00 hours lab.

Prereauisite: ARTD 25B

Develop a working knowledge of painting media. Painting problems are studied in order to broaden the student's knowledge of painting organization.

ARTD 26B — Painting: Intermediate

3 Units

36.00 hours lecture. Degree Appropriate, CSU, UC

72.00 hours lab.

Prerequisite: ARTD 26A

Extends and expands the principles, techniques and painting problems that were introduced in ARTD 26A. More emphasis is placed on personal approach and expression.

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.) 36.00 hours lecture.

72.00 hours lab.

Prerequisite: ARTD 15A OR ARTD 20 OR ARTD 25A

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.

ARTD 43 — Introduction to Printmaking

3 Units

(May be taken two times for credit.) Degree Appropriate, CSU, UC 36.00 hours lecture.

72.00 hours lab.

Introduction to creative techniques in fine art printmaking using relief and intaglio projects. Emphasis is on developing skills, vocabulary and critical understanding and analysis of its aesthetics, historical context, cultural traditions and craftsmanship through projects, discussion and oral/written criticism.

ARTD 44 — Printmaking: Relief and Lithography

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.)

36.00 hours lecture. 72.00 hours lab.

Prereauisite: ARTD 43

Creative techniques in fine art printmaking focusing on lithography. The possibilities of combination of planographic with relief methods will be explored. Emphasis is on developing skills, vocabulary and critical understanding and analysis of its aesthetics, historical context and craftsmanship through projects, discussion and oral/written criticism. Students who repeat this course will improve skills through further instruction and practice.

ARTD 45 — Printmaking: Collagraph/Monotype/Silkscreen 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.)

36.00 hours lecture.

72.00 hours lab. Prereauisite: ARTD 43

Creative techniques in fine art printmaking using collagraphs, monotypes, monoprints and stencil projects. Emphasis is on developing skills, vocabulary and critical understanding and analysis of mixed media printmaking's aesthetics, historical context and craftsmanship through projects, discussion and oral/written criticism. Students who repeat this course will improve skills through further instruction and practice.

ASTRONOMY

ASTR 5 — Introduction to Astronomy

3 Units 54.00 hours lecture. Degree Appropriate, CSU, UC

Prereauisite: Eliaibility for ENGL 1A

A non-technical survey of the Universe. Fundamental concepts and facts of astronomy. Topics include the origin and evolution of planets, stars, and 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 54.00 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 sessions with the telescopes and other field trips are required.

ASTR 7 — Geology of the Solar System

3 Units 54.00 hours lecture. Degree Appropriate, CSU, UC

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.

ASTR 8 — Introduction to Stars, Galaxies, and the Universe 3 Units 54.00 hours lecture. Degree Appropriate, CSU, UC

Introduction to astronomy with emphasis on the structure and evolution of stars, galaxies, and the universe. Field trip(s) required.

ASTR 99 — Special Projects in Astronomy

Spring Semester

Degree Appropriate, CSU

2 Units

(May be taken four times for credit.)

36.00 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. 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.

BIOLOGY

Cluster repeatability:

Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Cluster: BIOL 99A, BIOL 99B

BIOL 1 — General Biology

4 Units

54.00 hours lecture.

Degree Appropriate, CSU, UC

54.00 hours lab.

Prerequisite: Eligibility for ENGL 68

An introduction to the major principles and concepts of biology, 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.

BIOL 2 — Plant and Animal Biology

4 Units

54.00 hours lecture.

Degree Appropriate, CSU, UC

54.00 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.

BIOL 3 — Ecology and Field Biology

4 Units

Degree Appropriate, CSU, UC 54.00 hours lecture.

54.00 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.

BIOL 4 — Biology for Majors

4 Units

(CAN BIOL 2)

Degree Appropriate, CSU, UC

BIOL 4 + ZOOL 1 + BTNY 3 = BIOL SEO A

54.00 hours lecture.

54.00 hours lab.

18.00 hours activity.

Prerequisite: CHEM 10 or CHEM 40 or one year of high school chemistry (C or better), AND MATH 71 or two years of high school algebra (C or better) or eauivalent

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.

BIOL 4H — Biology for Majors - Honors (CAN BIOL 2)

4 Units

Degree Appropriate, CSU, UC

BIOL 4H + ZOOL 1 + BTNY 3 = CAN BIOL SEQ A

54.00 hours lecture.

72.00 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.

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 5 — Contemporary Health Issues

3 Units

Degree Appropriate, CSU, UC 54.00 hours lecture. Provides an overview of contemporary health issuesknown to affect the quality and longevity of life. Topics include: sexuality and reproduction, stress management, fitness and nutrition, substance use and abuse, and environmental quality. Emphasis is on prevention of illness and injuries. May satisfy the Health Education requirement for a California State Teaching Credential.

BIOL 6 — Humans and the Environment

3 Units

54.00 hours lecture.

Degree Appropriate, CSU, UC

Prerequisite: Eligibility for ENGL 68

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 6L — Humans and the Environment Laboratory 2 Units 108.00 hours lab. Degree Appropriate, CSU, UC

Coreauisite: 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. 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

54.00 hours lecture. 54.00 hours lab.

Degree Appropriate, CSU, UC

Prerequisite: BIOL 4 or BIOL 4H, and CHEM 50

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

Fall Semester Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.)

36.00 hours lecture.

54.00 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 12B — Natural History of California

3 Units

Degree Appropriate, CSU

(May be taken for option of letter grade or Credit/No Credit.) 36.00 hours lecture.

54.00 hours lab.

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.

BIOL 13 — Human Reproduction, Development and Aging 3 Units 54.00 hours lecture. Degree Appropriate, CSU, UC

Prerequisite: Eligibility for ENGL 68

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 15 — Human Sexuality

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC

Prerequisite: Eligibility for ENGL 68

A survey of the biological, behavioral, cultural and ethical aspects of human sexuality.

BIOL 15H — Human Sexuality - Honors

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC

Prerequisite: Acceptance into the Honors Program

A survey of the biological, behavioral, cultural and ethical aspects of human sexuality. An honors course designed to provide an enriched experience. Students may not receive credit for both BIOL 15 and BIOL 15H.

BIOL 17 — Neurobiology and Behavior

3 Units

54.00 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.

BIOL 20 — Marine Biology

3 Units

54.00 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 21 — Marine Biology Laboratory

1 Unit

54.00 hours lab. Degree Appropriate, CSU, UC Corequisite: BIOL 20 (May have been taken previously)

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.

BIOL 99A — Special Projects in Biology

1 Unit

(May be taken four times for credit.) 18.00 hours lecture.

Degree Appropriate, CSU

In order to offer 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 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 99B — Special Projects in Biology

2 Units

(May be taken four times for credit.) 36.00 hours lecture.

Degree Appropriate, CSU

In order to offer 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 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.

BOTANY

BTNY 3 — Plant Structures, Functions, and Diversity 5 Units Degree Appropriate, CSU, UC Spring Semester

54.00 hours lecture.

108.00 hours lab.

Advisory: BIOL 1 or BIOL 4. Eligibility for ENGL 1A. Completion of one year 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.

BUSINESS: ACCOUNTING

Cluster repeatability:

Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Cluster: BUSA 81, BUSA 83, BUSA 84, BUSA 85

BUSA 7 — Principles of Accounting - Financial

5 Units

90.00 hours lecture. Degree Appropriate, CSU, UC

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 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.

BUSA 8 — Principles of Accounting - Managerial

5 Units Degree Appropriate, CSU, UC

90.00 hours lecture. Prerequisite: BUSA 7

Review of managerial accounting, job and process costing, cost-volumeprofit analysis, cost behavior analysis and use, cost allocation, the 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 11 — Fundamentals of Accounting

3 Units

54.00 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 21 — Cost Accounting

4 Units

Degree Appropriate

72.00 hours lecture. 18.00 hours lab.

Prereauisite: 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.

BUSA 52 — Intermediate Accounting

3 Units

54.00 hours lecture. Degree Appropriate

Prerequisite: BUSA 8

Detailed review of basic accounting concepts and principles and an indepth analysis of the balance sheet and income statement. Emphasis is placed on the changing nature of principles and practices, the 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 53 — Ten-Key Calculations

2 Units

18.00 hours lecture.

Degree Appropriate

54.00 hours lab.

Prerequisite: BUSA 68 or eligibility for MATH 50

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.

BUSA 58 — Federal Income Tax Law

3 Units

54.00 hours lecture.

Degree Appropriate

Prerequisite: BUSA 7 or BUSA 72

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 68 — Business Mathematics

3 Units

54.00 hours lecture.

Pre-Collegiate

Reviews addition, subtraction, multiplication, division, decimals, percentages, fractions, sign numbers, equations and problem solving.

BUSA 70 — Payroll and Tax Accounting

3 Units Degree Appropriate

54.00 hours lecture.

Prerequisite: Eligibility for BUSA 11

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.

BUSA 71 — Financial Planning

54.00 hours lecture.

3 Units Degree Appropriate, CSU

BUSA 83 — Work Experience in Accounting (May be taken four times for credit.)

2 Units Degree Appropriate

(May be taken for Credit/No Credit only.)

150.00 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 quaranteed but assistance is provided. Students who repeat this course will improve their skills through further instruction and practice.

BUSA 72 — Bookkeeping - Accounting 90.00 hours lecture.

5 Units Degree Appropriate

Prerequisite: BUSA 68 or eligibility for MATH 50

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.

Functional approach to personal finance, including budget systems,

consumer credit, health careand insurance, debt collection systems.

term financial goals. Applicable for personal and professional use.

Students may not earn credit for both BUSA 71 and FCS 80.

status obligation, accumulating reserves. Examines short-term and long-

BUSA 75 — Using Microcomputers in Financial Accounting 1 Unit 18.00 hours lecture. Degree Appropriate

Prerequisite: BUSA 7 or BUSA 72

Application of basic accounting concepts utilizing a computerized 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.

BUSA 76 — Using Microcomputers in Managerial Accounting 1 Unit 18.00 hours lecture. Degree Appropriate

Prerequisite: BUSA 7 or BUSA 72

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.

BUSA 81 — Work Experience in Accounting

1 Unit Degree Appropriate

(May be taken four times for credit.)

(May be taken for Credit/No Credit only.)

75.00 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 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.)

225.00 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 skills through further instruction and practice.

BUSA 85 — Work Experience in Accounting

4 Units

(May be taken four times for credit.) (May be taken for Credit/No Credit only.)

Degree Appropriate

300.00 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 skills through further instruction and practice.

BUSINESS: ECONOMICS

BUSC 1A — Principles of Economics - Macroeconomics 3 Units (CAN ECON 2) Degree Appropriate, CSU, UC

54.00 hours lecture.

Prerequisite: Eligibility for ENGL 1A

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.

BUSC 1AH — Principles of Economics - Macroeconomics - Honors 3 Units (CAN ECON 2) Degree Appropriate, CSU, UC

54.00 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

54.00 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.

BUSC 1BH — Principles of Economics - Microeconomics - Honors 3 Units Spring Semester Degree Appropriate, CSU, UC (CAN ECON 4)

54.00 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 Degree Appropriate, CSU, UC

54.00 hours lecture.

Fall Semester

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, probability distributions, sampling and estimation, hypothesis testing, analysis of variance, linear regression and correlation and index numbers.

BUSINESS: LAW

Some courses previously listed as Business: Law (BUSL) are now listed under Business: Paralegal (PLGL) see page 138.

BUSL 18 — Business Law 54.00 hours lecture.

3 Units Degree Appropriate, CSU, UC

Prereauisite: Eliaibility 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

54.00 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

54.00 hours lecture.

Degree Appropriate, CSU, UC

Advisorv: BUSL 18

Principles of business law emphasizing commercial paper, agency, partnerships, corporations, bankruptcy, regulation of trade and real property.

BUSL 20 — International Business Law

3 Units

54.00 hours lecture.

Degree Appropriate

Advisory: Eliaibility 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

Cluster repeatability:

Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Cluster: BUSM 81, BUSM 82, BUSM 83, BUSM 84

BUSM 10 — Principles of Continuous Quality Improvement 3 Units 54.00 hours lecture. Degree Appropriate

Advisory: Eligibility for ENGL 68 or BUSO 5

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.) 54.00 hours lecture.

Advisory: BUSM 10

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.

BUSM 20 — Principles of Business

3 Units

54.00 hours lecture.

Degree Appropriate, CSU, UC

Prerequisite: Eligibility for ENGL 68

Study 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.

BUSM 25 — Principles of E-Commerce

3 Units Degree Appropriate

54.00 hours lecture.

54.00 hours lecture.

Advisory: Eligibility for ENGL 68 or BUSO 5

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 internet, consumer buying, retail and business purchases, Internet marketing, digital advertising, global E-commerce and business Web sites.

BUSM 50 — World Culture: A Business Perspective

3 Units Degree Appropriate, CSU 54.00 hours lecture. An overview of the effects of culture on business communication and

interaction. Cultural roles and components are described and related to the business environment and the student's own culture.

BUSM 51 — Principles of International Business

3 Units Degree Appropriate, CSU

Advisory: Eligibility for ENGL 68 or BUSO 5

An overview of the rapidly changing international business environment, designed to provide a global perspective. Introduces 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.

BUSM 52 — Principles of Exporting and Importing 54.00 hours lecture.

3 Units Degree Appropriate, CSU

Advisory: Eliaibility for ENGL 68 or BUSO 5

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.

BUSM 60 — Human Relations in Business

54.00 hours lecture. Degree Appropriate, CSU 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

BUSM 61 — Business Organization and Management 3 Units 54.00 hours lecture. Degree Appropriate, CSU

Advisory: BUSM 20

and other related areas.

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.

BUSM 62 — Human Resource Management 3 Units

54.00 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

54.00 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

(May be taken four times for credit.)

Degree Appropriate

(May be taken for Credit/No Credit only.)

75.00 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

(May be taken four times for credit.)
(May be taken for Credit/No Credit only.)

150.00 hours lab.

3 Units

Corequisite: BUSM 20 (May have been taken previously)

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 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.)
(May be taken for Credit/No Credit only.)

Degree Appropriate

3 Units

2 Units

Degree Appropriate

225.00 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 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.

BUSM 84 — Work Experience in Business

4 Units Degree Appropriate

Spring Semester

(May be taken four times for credit.)

(May be taken for Credit/No Credit only.)

300.00 hours lab.

1 Unit

Corequisite: BUSM 20 (May have been taken previously)

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 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

(May be taken two times for credit.)

(May be taken for option of letter grade or Credit/No Credit.)

36.00 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.

BUSINESS: OFFICE TECHNOLOGY

BUSO 5 — Business English

3 Units

(May be taken two times for credit.)

Degree Appropriate

54.00 hours lecture.

Prerequisite: Eligibility for ENGL 68 or BUSO 5

Thorough 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 instruction and practice.

BUSO 25 — Business Communications

3 Units

54.00 hours lecture.

Degree Appropriate, CSU

Prerequisite: ENGL 1A

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.

BUSO 26 — Oral Communications for Business

3 Units Degree Appropriate

(May be taken for option of letter grade or Credit/No Credit.) 54.00 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

(May be taken for option of letter grade or Credit/No Credit.) 27.00 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

PLGL 30 — Introduction to Paralegal/Legal

3 Units

54.00 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 31A — Legal Analysis and Writing

3 Units

54.00 hours lecture. Degree Appropriate, CSU Corequisite: 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 research reports.

PLGL 31B — Advanced Legal Analysis and Writing

54.00 hours lecture. Degree Appropriate, CSU

Prereauisite: PLGL 30 and PLGL 31A

Preparation of research memoranda, trial briefs, appellate briefs and other paralegal documents. Continuation of PLGL 31A, Legal Analysis and Writing.

PLGL 33A — Civil Procedure Pretrial

3 Units

3 Units

54.00 hours lecture. Degree Appropriate, CSU Coreauisite: 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-Trial

3 Units

54.00 hours lecture. Degree Appropriate, CSU

Prereauisite: PLGL 33A

Preparing for litigation. Includes discovery, preparation of law and motion documents, remedies, summary judgments, motions to dismiss, settlements, and arbitration.

PLGL 35A — Law Office Procedures

3 Units

54.00 hours lecture. Advisory: PLGL 30

Degree Appropriate, CSU

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 quardianships.

PLGL 35B — Automated Law Office Procedures

3 Units

1 Unit

54.00 hours lecture. Degree Appropriate

Prerequisite: PLGL 35A

Corequisite: PLGL 30 (May have been taken previously)

Advisory: CISB 15 or equivalent computer experience

Use 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 36 — Paralegal Internship

(May be taken two times for credit.)

Degree Appropriate

(May be taken for Credit/No Credit only.)

75.00 hours lab.

Prerequisite: PLGL 31A, PLGL 33A, and PLGL 35A

Corequisite: PLGL 31B, PLGL 33B, PLGL 35B, PLGL 37, PLGL 39 (May have been taken previously)

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 semester) is required. Students who repeat this course will improve skills through further instruction and practice.

PLGL 37 — Tort Law 54.00 hours lecture.

3 Units

Degree Appropriate, CSU 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 38 — Employment and Ethical Issues in Paralegalism 2 Units 36.00 hours lecture. Degree Appropriate

Prerequisite: PLGL 31A, PLGL 33A, PLGL 35A

Coreauisite: PLGL 31B, PLGL 33B, PLGL 35B, PLGL 37, PLGL 39 (May have been taken previously)

Job search skills including preparation of professional resumes and cover letters. interviewing techniques, networking, application of these skills in beginning the search for paralegal employment, and paralegal and attorney ethics.

PLGL 39 — Contract Law

3 Units

54.00 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

54.00 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 of the landlord and the tenant.

PLGL 41 — Property Law

3 Units

54.00 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 42 — Family Law

3 Units

54.00 hours lecture. Degree Appropriate, CSU Laws relating to marriage, dissolution, nullity, and legal separation. Includes topics of community property, child custody, child support, spousal support, and prenuptial/antenuptial agreements.

PLGL 43 — Wills and Trusts

3 Units

54.00 hours lecture. Degree Appropriate, CSU Legal principles of the laws of wills and trusts, organization and iurisdiction of the California Probate Courts, estate planning and estate

PLGL 44 — Bankruptcy Law

3 Units

54.00 hours lecture. Degree Appropriate, CSU Creation, scope, and administrative function of federal bankruptcy proceedings and arrangements. Includes wage earner plans and insolvency proceedings.

PLGL 45 — Creditors' Rights

3 Units

54.00 hours lecture. Degree Appropriate, CSU Creation, perfection, and enforcement of security interests in property. Unsecured creditors and their methods of enforcing rights and

obtaining judgments.

3 Units

PLGL 47A — Litigation Procedures (May be taken two times for credit.)

54.00 hours lecture.

Degree Appropriate

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 Practice

1.5 Units

(May be taken two times for credit.) Degree Appropriate 27.00 hours lecture.

Corequisite: PLGL 47A (May have been taken previously) Students will present a case and evaluate the effectiveness of their

presentation. Continuous revision of opening arguments, closing arguments, direct examinations, and cross-examinations. Students who repeat this course will improve skills through further instruction and practice.

PLGL 48 — Criminal Law and Procedures

3 Units

54.00 hours lecture. Degree Appropriate, CSU General principles of criminal law and procedure, elements of crimes against person and property, parties to a crime, defenses to crimes. Analysis of procedural law relating to arrest, search and seizure, rights to counsel and a jury, evidentiary issues, sentencing and appeal.

PLGL 49 — Evidence Law

3 Units

54.00 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.

PLGL 50 — Comparative Law

3 Units

54.00 hours lecture. Advisory: Eligibility for ENGL 1A Degree Appropriate

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 management issues are considered with regard to doing business abroad.

BUSINESS: REAL ESTATE

BUSR 50 — Real Estate Principles

3 Units Degree Appropriate, CSU 54.00 hours lecture. 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 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

54.00 hours lecture. Degree Appropriate Prerequisite: BUSR 50 or employment in the real estate field 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.

BUSR 52 — Real Estate Practice

3 Units

3 Units

54.00 hours lecture. Degree Appropriate Corequisite: BUSR 50. May have been taken previously, or employment in the real estate field.

Office procedures and practices in listings, advertising, prospecting, financing, exchanges, property management, salesmanship, land utilization and public relations. Must be completed prior to applying to take the Salesperson License Exam.

BUSR 52D — Real Estate Practice Work Experience

3 Units

(May be taken two times for credit.) Degree Appropriate 225.00 hours lab.

Corequisite: BUSR 50 and not possessing a permanent California real estate license at time of enrollment. Student must be enrolled in seven units minimum including work experience units.

Provides a minimum of 180 hours of on-site real estate office and/or 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

54.00 hours lecture. Degree Appropriate Prerequisite: BUSR 50 or employment in the real estate field Real estate financing sources, loans underwriting, applications, and appraisals. Can be used to meet the additional education requirement of the salesperson or broker license.

BUSR 55 — Real Estate Economics 3 Units

54.00 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 DRE for the real estate broker license and may be used as the elective course for the salesperson license.

BUSR 57 — Income Tax Aspects of Real Estate Investments 3 Units 54.00 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 of the California Department of Real Estate's requirements for the salesperson or broker license.

BUSR 59 — Real Estate Property Management

3 Units

54.00 hours lecture. Prerequisite: BUSR 50 Degree Appropriate

Property management for owners and managers of residential and commercial income properties. Meets California real estate license requirements for salesperson and broker.

BUSR 60 — Real Estate Investment Planning

3 Units

54.00 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 emphasis on research methods needed for successful investing.

BUSR 62 — Mortgage Loan Brokering and Lending

3 Units

54.00 hours lecture. Degree Appropriate Prerequisite: BUSR 50 or employment in the real estate field Overview 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. May be used as an elective for the salesperson or broker license.

BUSR 76 — Escrow Procedures I

3 Units

54.00 hours lecture. Degree Appropriate A case study method of escrow procedures including processing of sale escrows with and without new trust deed financing; learning and using the vocabulary of escrow; drawing of documents; and other processing details pertinent to handling escrows from inception to closing. May be used as an elective for the salesperson or broker license.

BUSR 77 — Escrow Procedures II 3 Units

54.00 hours lecture.

Degree Appropriate

Prereauisite: BUSR 76

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 personal property sales. Designed to assist those either directly or indirectly connected with the escrow industry.

BUSR 81 — Appraisal: Principles and Procedures

3.5 Units

63.00 hours lecture. Degree Appropriate Principles and procedures of appraising real property with emphasis on residential properties. Required by Office of Real Estate Appraisers (OREA) for all appraisal licenses and by the Department of Real Estate (DRE) for real estate broker license. Provides 60 hours toward OREA requirements for state licensing. Includes all topics listed in Appraisal Qualifications Board (AQB) Basic Appraisal Principles and Basic Appraisal Procedures modules. May be used as the elective course for the salesperson license.

BUSR 82 — Uniform Standards of Professional Appraisal Practice 1 Unit 18.00 hours lecture. Degree Appropriate

Emphasizes appraisal standards and professional ethics. Meets the national 15-hour Uniform Standards of Professional Appraisal Practice (USPAP) requirement for initial licensing by the Office of Real Estate Appraisers (OREA).

BUSR 83 — Residential Appraisal

3.5 Units

63.00 hours lecture. Degree Appropriate Includes all topics listed in Appraisal Qualifications Board (AQB)Modules: Residential Market Analysis and Highest and Best Use, Residential Appraiser Site Valuation and Cost Approach, and Residential Sales Comparison and Income Approaches. Required by Office of Real Estate Appraisers (OREA) for all appraisal licenses and provides 60 hours toward OREA requirements for appraisal licensing. May be used as the elective course for the salesperson license or the required appraisal course for broker license.

BUSR 84 — Residential Appraisal: Case Studies

2.5 Units

45.00 hours lecture. Degree Appropriate Emphasizes residential appraisal case studies, report writing, statistics, modeling, and finance. Required by Office of Real Estate Appraisers (OREA) for all appraisal licenses. Provides 45 hours toward OREA requirements for state licensing. Includes all topics listed in Appraisal Oualifications Board (AOB) Modules: Residential Report Writing and Case Studies; Statistics, Modeling, and Finance; and Advanced Residential Applications and Case Studies.

BUSINESS: SALES, MERCHANDISING AND MARKETING

Cluster repeatability:

Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Cluster: BUSS 79, BUSS 80, BUSS 81, BUSS 82

BUSS 33 — Advertising and Promotion

3 Units

54.00 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.

BUSS 35 — Professional Selling

3 Units

54.00 hours lecture.

Degree Appropriate, CSU

Prereauisite: Eliaibility for ENGL 68

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 behavior and critical steps in the selling process. Students develop and offer a sales presentation for a selected product, service or concept.

BUSS 36 — Principles of Marketing

3 Units

54.00 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.

BUSS 50 — Retail Store Management and Merchandising 3 Units

54.00 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.

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.)

75.00 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 quaranteed 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.)

150.00 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-iob 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.

BUSS 81 — Work Experience in Marketing Management 3 Units (May be taken for Credit/No Credit only.) Degree Appropriate 225.00 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-iob 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 quaranteed but assistance is provided by the business faculty. Students who repeat this course will improve skills through further instruction and practice.

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.)

300.00 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 quaranteed but assistance is provided by the business faculty. Students who repeat this course will improve skills through further instruction and practice.

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.) 36.00 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.

CHEMICAL TECHNOLOGY

Cluster repeatability:

Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Cluster: CHMT 8. CHMT 9

CHMT 1 — Introduction to Chemical Laboratory Technology 3 Units 36.00 hours lecture. Degree Appropriate 54.00 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.

CHMT 5 — Elementary Principles of Chemical Processing 2 Units Degree Appropriate, CSU 36.00 hours lecture.

Prerequisite: CHEM 50

Fundamental theories of industrial chemical processing. Includes mass 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.) (May be taken for Credit/No Credit only.) Degree Appropriate

75.00 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.

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.)

150.00 hours lab.

Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog

Provides Chemistry Technology students with actual on-the-iob 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

54.00 hours lecture.

Degree Appropriate, CSU, UC

4 Units

72.00 hours lab.

Prerequisite: MATH 51 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 + 20 = CAN CHEM SEO B

54.00 hours lecture.

108.00 hours lab.

Prerequisite: CHEM 10 or CHEM 40

Nomenclature, structure, function and reactions of major classes of organic compounds and of biomolecules, including amino acids, lipids, carbohydrates, nucleic acids and proteins. Structure and function of vitamins, coenzymes and enzymes. Metabolic pathways and biochemical energy.

CHEM 40 — Introduction to General Chemistry 4 Units

54.00 hours lecture.

Degree Appropriate, CSU, UC

72.00 hours lab.

Prerequisite: MATH 51 or one year of high school algebra ("C" or better) Advisory: Eligibility for ENGL 1A

Introduction to measurements, structure and properties of matter, writing/balancing equations, stoichiometry, properties and behavior of gases, and properties of solutions. For science/ engineering majors preparing for admission into General Chemistry (CHEM 50.)

CHEM 50 — General Chemistry I

(CAN CHEM 2)

Degree Appropriate, CSU, UC

5 Units

CHEM 50 + 51 = CAN CHEM SEQ A

54.00 hours lecture.

108.00 hours lab.

Prerequisite: (1) One year high school chemistry with minimum "C" grade each semester; (2) Satisfactory score on Chemistry Placement Examination; (3) Grade of "C" or better in second-year algebra (may not be taken concurrently with CHEM 50.) Succ essful comp letion 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

54.00 hours lecture.

5 Units Degree Appropriate, CSU, UC

5 Units

108.00 hours lab.

Prerequisite: Acceptance into the Honors Program, Also, (1) one year high school chemistry with minimum "C" grade each semester; (2) satisfactory score on Chemistry Placement Test; (3) grade of "C" 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 prereauisites.

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. An honors course designed to provide an enriched experience. Students may not receive credit for both CHEM 50 and CHEM 50H.

CHEM 51 — General Chemistry II

Degree Appropriate, CSU, UC

(CAN CHEM 4)

CHEM 50 + 51 = CAN CHEM SEQ A

54.00 hours lecture.

108.00 hours lab.

Prerequisite: CHEM 50 or CHEM 50H

The application of the laws, theories and principles presented in CHEM 50 to a variety of chemical systems. Topics include kinetics, equilibrium, thermodynamics, acid-base and oxidation-reduction reactions, transition metals, electrochemistry and nuclear chemistry. Emphasis is on critical thinking and mathematical problem-solving. Laboratory experiments use computer and calculator-based technologies in data acquisition and analysis.

CHEM 60 — Quantitative Chemical Analysis

54.00 hours lecture.

Degree Appropriate, CSU, UC

108.00 hours lab.

Prereauisite: 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 Degree Appropriate

5 Units

54.00 hours lecture.

108.00 hours lab.

Prereauisite: 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

54.00 hours lecture.

Degree Appropriate, CSU, UC

108.00 hours lab.

Prereauisite: 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 methods for organic compunds. To assure that all content material is covered, it is recommended that students complete the entire one-year sequence at one campus prior to transfer.

CHEM 81 — Organic Chemistry

5 Units

Degree Appropriate, CSU, UC

54.00 hours lecture. 108.00 hours lab.

Prerequisite: CHEM 80

Continuation of CHEM 80. Designed for chemistry, biochemistry, chemical engineering and biology majors; also for those in preprofessional 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 Chemistry

2 Units

(May be taken two times for credit.)

Degree Appropriate, CSU

36.00 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 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, School and Community 54.00 hours lecture.

Degree Appropriate, CSU, UC

3 Units

Prereauisite: Eliaibility 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 5 — Principles/Practices in Child Development Programs 3 Units 54.00 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. TB test required.

CHLD 6 — Survey of Child Development Curriculum 3 Units 54.00 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

54.00 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 V Regulations pertaining to Child Development Permit, Out-of-class observations and interviews required. TB test required.

CHLD 10H — Child Growth and Development - Honors 3 Units Degree Appropriate, CSU, UC 54.00 hours lecture.

Prerequisite: Acceptance into the Honors Program Developmental approach to the study of the child identifying forces affecting growth processes from conception through adulthood. Meets requirements for Title 22 and Title V 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 50 — Multicultural Education: Anti-Bias Perspective 3 Units 54.00 hours lecture. Degree Appropriate Advisory: CHLD 1

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.

CHLD 51 — Early Literacy in Child Development

3 Units 54.00 hours lecture. Degree Appropriate, CSU Advisorv: CHLD 61

Examines 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 54.00 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 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 Young Children 3 Units 54.00 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.

CHLD 63 — Creative Sciencing and Math for Young Children 3 Units 54.00 hours lecture. Degree Appropriate

Advisory: Eliaibility 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.

CHLD 64 — Health, Safety and Nutrition of Young Children 3 Units 54.00 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, evaluate center/agency policies with licensing requirements, and food program service with guidelines for food handling.

CHLD 66 — Early Childhood Development Observation 2 Units Degree Appropriate, CSU 36.00 hours lecture.

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 be on the interaction of the preschool child with the environment and with significant people.

CHLD 66L — Early Childhood Development Observation Laboratory 1 Unit 54.00 hours lab. Degree Appropriate, CSU

Coreauisite: 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

36.00 hours lecture.

Degree Appropriate, CSU

Prerequisite: CHLD 6 and CHLD 66

Coreauisite: 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 Laboratory**

1 Unit

63.00 hours lab. Degree Appropriate, CSU

Corequisite: CHLD 67

Teaching in the preschool class. Plan, prepare, and implement curriculum for groups of children. Negative TB test result required.

CHLD 68 — Children With Special Needs

3 Units

54.00 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 modifications, adaptations, accommodations and teaching techniques involved in the inclusive classroom. Required observations in community agencies.

CHLD 69 — Early Childhood Development Field Work Seminar 2 Units 36.00 hours lecture. Degree Appropriate

Prerequisite: CHLD 67, CHLD 67L

Coreauisite: 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 54.00 hours lecture. Degree Appropriate, CSU

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 71B — Management/Marketing/Personnel 3 Units for ECD Programs

54.00 hours lecture. Prerequisite: CHLD 71A Degree Appropriate

Strategic planning for ECD programs, including financial administration, budgeting and marketing. Investigates basic financial/data management programs; examines personnel management practices designed to facilitate director/administrator/staff relationships; and explores staff development strategies and techniques employed in creative teaching methods.

CHLD 72 — Teacher, Parent, and Child Relationships 3 Units 54.00 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 54.00 hours lecture. Degree Appropriate, CSU

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

CHLD 74 — Program Planning for the School Age Child 3 Units 54.00 hours lecture. Degree Appropriate

participation with infants and toddlers outside of class time.

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 schoolage programs are emphasized. Explores age-appropriate discipline and conflict resolution. Develops activity planning consistent with schoolage content standards. Student assignments will include observations of school-age programs.

CHLD 75 — Supervising Adults in Early Childhood Settings 2 Units 36.00 hours lecture. Degree Appropriate

Advisory: CHLD 1 and CHLD 5

Methods 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.

CHLD 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.) 18.00 hours lecture.

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.) 18.00 hours lecture.

Investigates current issues in Child Development; explores process of advocacy on behalf of children.

CHLD 83 — Current Issues in Child Development 1 Unit

(May be taken four times for credit.) Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 18.00 hours lecture.

Advisory: CHLD 5, CHLD 10 or CHLD 10H

Provides students with a working knowledge of current research in child development and helps them apply that research to their programs and teaching, Issues covered will change with course offerings. Students who repeat this course will improve skills through further instruction and practice.

CHLD 84 — Guidance and Discipline 1 Unit in Child Development Settings

18.00 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.

CHLD 85 — Infants At Risk

3 Units

1 Unit

54.00 hours lecture.

Degree Appropriate

Prerequisite: CHLD 64 and CHLD 73

Advisory: CHLD 5

Principles and methods of working with infants and toddlers who are disabled or at-risk in the early childhood setting. Emphasis is placed on issues affecting normal development prevention, intervention, referrals and transition to school. Course will prepare teachers of young children for appropriate planning in these settings.

CHLD 91 — Early Childhood Development Field Work

(May be taken for Credit/No Credit only.) Degree Appropriate 75.00 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.

CHLD 92 — Family Child Care

3 Units

54.00 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

CHIN 1 — Elementary Chinese (CAN CHIN 2)

4 Units Degree Appropriate, CSU, UC

CHIN 1+2 = CAN CHIN SEO A

72.00 hours lecture.

Intended for students without previous exposure to Chinese. Begins to develop the ability to converse, read, and write in Mandarin Chinese. Includes the study of essentials of pronunciation, vocabulary, idioms, and grammatical structures along with an introduction to Chinese culture.

CHIN 2 — Continuing Elementary Chinese (CAN CHIN 4)

4 Units

Degree Appropriate, CSU, UC

CHIN 1+2 = CAN CHIN SEO A

72.00 hours lecture.

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

Spring Semester (CAN CHIN 8)

Degree Appropriate, CSU, UC

72.00 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.

CHIN 4 — Continuing Intermediate Chinese 4 Units 72.00 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 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.)

27.00 hours lab.

Prerequisite: Concurrent or previous enrollment in 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 AND NETWORKING TECHNOLOGY

CNET 50 — PC Servicing

4 Units

.5 Unit

54.00 hours lecture.

Degree Appropriate

54.00 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

54.00 hours lecture.

Degree Appropriate

54.00 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 54 — PC Troubleshooting

4 Units

Degree Appropriate

54.00 hours lecture.

54.00 hours lab.

Advisory: CNET 50 taken prior

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.

CNET 56 — Computer Networks

4 Units

54.00 hours lecture.

Degree Appropriate

54.00 hours lab.

Advisory: CNET 54 taken prior

Standards, terminology, design, implementation and troubleshooting techniques as they relate to both Local and Wide Area Networks. 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 MSCF certifications.

CNET 60 — A+ Certification Preparation

3 Units

(May be taken two times for credit.)

Degree Appropriate

54.00 hours lecture. 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

CNET 62 — Network+ Certification Preparation

(May be taken two times for credit.)

Degree Appropriate

3 Units

54.00 hours lecture.

Advisory: CNET 56

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.

CNET 64 — Server + Certification Preparation

3 Units (May be taken two times for credit.) Degree Appropriate

36.00 hours lecture.

54.00 hours lab.

Advisory: CNET 56 taken prior

Prepares the computer/network service technician for the CompTIA Server+ certification examination.

CNET 66 — Security + Certification Preparation

3 Units (May be taken two times for credit.) Degree Appropriate

36.00 hours lecture.

54.00 hours lab.

Advisory: CNET 56 taken prior

Prepares the computer/network service technician for the CompTIA 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

COMP 1 — Computer Keyboarding

4 Units

54.00 hours lecture.

Degree Appropriate, CSU

54.00 hours lab.

Develops 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 and manuscripts.

COMP 1A — Computer Keyboarding

2 Units

Degree Appropriate, CSU

(May be taken for option of letter grade or Credit/No Credit.) 27.00 hours lecture.

27.00 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.

COMP 1B — Computer Keyboarding

2 Units

27.00 hours lecture. 27.00 hours lab.

Degree Appropriate, CSU

Advisory: COMP 1A or BUSO 1A, or ability to type 20 wam with test verification at first class meeting

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.

COMP 2 — Intermediate Computer Keyboarding

4 Units Degree Appropriate

54.00 hours lecture. 54.00 hours lab.

Prerequisite: COMP 1 or COMP 1B or BUSO 1 or BUSO 1B, or one year of

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.

COMP 10 — Operating the Macintosh Computer

1.5 Units Degree Appropriate, CSU

(May be taken for option of letter grade or Credit/No Credit.) 27.00 hours lecture.

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.

COMP 11 — Internet Research for Business

2 Units Degree Appropriate, CSU

(May be taken for option of letter grade or Credit/No Credit.) 27.00 hours lecture.

27.00 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 mailing lists.

COMP 12 — Office Computer Applications

4 Units

Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.)

54.00 hours lecture. 54.00 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 13 — Using Web Page Software

4 Units Degree Appropriate, CSU

(May be taken for option of letter grade or Credit/No Credit.) 54.00 hours lecture.

54.00 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.

COMP 18 — Data Entry

3 Units

(May be taken two times for credit.) Degree Appropriate 54.00 hours lecture.

Advisory: Ability to type 25 wam with test verification at first class

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 20 — Word for the Business Professional

4 Units

(May be taken two times for credit.) Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 54.00 hours lecture.

54.00 hours lab.

Advisory: COMP 10 or CISB 13 and ability to type 25 wam with test verification at first class meeting

Extensive 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 28 — Office Management Skills

3 Units

54.00 hours lecture. Degree Appropriate Advisory: COMP 1 or COMP 1A, or BUSO 1 or BUSO 1A, and BUSO 5 Training and skill building in filing systems and procedures, proofreading, telephone techniques, faxing, emailing, and electronic calendaring of events, appointments and meetings.

COMP 50 — Desktop Presentations Using PowerPoint 4 Units

(May be taken two times for credit.) Degree Appropriate, CSU 54.00 hours lecture.

54.00 hours lab.

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.

4 Units COMP 60 — Business Publications **Using Desktop Publishing Software**

(May be taken three times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 54.00 hours lecture.

54.00 hours lab.

Advisory: COMP 10 or COMP 12 or CISB 13 or CISB 15 Using desktop publishing software, integrate text and graphics to design, edit, and produce high-quality business publications.

COMP 68 — Transcription Techniques

3 Units

Degree Appropriate

(May be taken for option of letter grade or Credit/No Credit.) 54.00 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.

COMP 150 — Basic PowerPoint

1 Unit

(May be taken for Credit/No Credit only.) Degree Appropriate 18.00 hours lecture.

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.

COMPUTER GRAPHICS

GRAP 1 — Computer Graphics Lab

1 Unit

(May be taken two times for credit.) Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 54.00 hours lab.

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.

GRAP 10 — Photo Editing with Photoshop

3 Units

(May be taken two times for credit.) Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 36.00 hours lecture.

54.00 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 photo scan 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.

GRAP 12 — Advanced Photo Editing with Photoshop 3 Units (May be taken two times for credit.) Degree Appropriate

(May be taken for option of letter grade or Credit/No Credit.)

36.00 hours lecture.

54.00 hours lab. 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.

GRAP 14 — Digital Color Management

3 Units

(May be taken two times for credit.) Degree Appropriate

(May be taken for option of letter grade or Credit/No Credit.)

36.00 hours lecture.

54.00 hours lab.

Prereauisite: GRAP 10

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 16 — Digital Image Design with Illustrator & Freehand 3 Units

(May be taken two times for credit.)

Degree Appropriate

(May be taken for option of letter grade or Credit/No Credit.)

36.00 hours lecture.

54.00 hours lab.

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 who repeat this course will improve skills through further instruction and practice.

GRAP 18 — Advanced Image Design - 3D Modeling Techniques 3 Units

(May be taken two times for credit.)

Degree Appropriate

(May be taken for option of letter grade or Credit/No Credit.)

36.00 hours lecture.

54.00 hours lab.

Prereauisite: GRAP 16

Corequisite: GRAP 1 (May have been taken previously)

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 OuickTime image movies for digital compositing and post-production. Students who repeat this course will improve skills through further instruction and practice.

GRAP 20 — Applying Photos and Images in Multimedia 3 Units Degree Appropriate (May be taken two times for credit.)

(May be taken for option of letter grade or Credit/No Credit.)

36.00 hours lecture.

54.00 hours lab.

Advisory: 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.

GRAP 24 — Work Experience in Computer Graphics

2 Units Degree Appropriate (May be taken two times for credit.)

(May be taken for option of letter grade or Credit/No Credit.) 150.00 hours lab.

Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog

Provides Computer Graphics 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.

GRAP 28 — Digital Portfolio

3 Units

Degree Appropriate

(May be taken for option of letter grade or Credit/No Credit.) 36.00 hours lecture.

54.00 hours lab.

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 communicating, synthesis, and problem solving.

GRAP 99 — Special Projects in Computer Graphics

2 Units

Degree Appropriate, CSU (May be taken four times for credit.) (May be taken for Credit/No Credit only.)

36.00 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. 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.

COMPUTER INFORMATION SYSTEMS: AUXILIARY

Cluster repeatability:

Credit students are limited to enroll up to 2 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Cluster: CISX 94, CISX 95, CISX 96

CISX 94 — Laboratory Studies in Computer Information Systems 1 Unit (May be taken two times for credit.) Degree Appropriate, CSU

(May be taken for Credit/No Credit only.)

54.00 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.

CISX 95 — Laboratory Studies in Computer Information Systems 2 Units

(May be taken two times for credit.) (May be taken for Credit/No Credit only.) Degree Appropriate, CSU

108.00 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.

CISX 96 — Laboratory Studies in Computer Information Systems 3 Units

(May be taken two times for credit.) Degree Appropriate, CSU (May be taken for Credit/No Credit only.)

162.00 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.

CISX 97 — Work Experience in Computer Information Systems 1 Unit Degree Appropriate (May be taken four times for credit.)

(May be taken for Credit/No Credit only.)

75.00 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 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.

COMPUTER INFORMATION SYSTEMS: BEGINNING

CISB 11 — Computer Information Systems

3.5 Units

(CAN BUS 6) Degree Appropriate, CSU, UC

54.00 hours lecture.

27.00 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 programming using multiple computer platforms

CISB 13 — Microsoft Windows

2 Units

27.00 hours lecture.

Degree Appropriate, CSU

27.00 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.

CISB 15 — Microcomputer Applications

4 Units

54.00 hours lecture.

Degree Appropriate, CSU, UC

54.00 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.

CISB 21 — Microsoft Excel

4 Units

54.00 hours lecture.

Degree Appropriate

54.00 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 Degree Appropriate, CSU

54.00 hours lecture. 54.00 hours lab.

Advisory: COMP 12 or CISB 11 and CISB 15

Design, creation and management of relational databases using Microsoft's Access or similar DBMS. 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.

CISD 14 — Advanced Database Management - Microcomputers 4 Units 54.00 hours lecture. Degree Appropriate

54.00 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.

CISD 21 — SQL Server 4 Units Degree Appropriate

54.00 hours lecture. 54.00 hours lab.

Advisory: CISB 11 or CISB 15

Provides comprehensive instruction in structured guery language (SQL) and transact-SOL for Microsoft SOL Server users. Students design a database, create database objects, view and update data, define cursors, develop program units, manage transactions, and handle database security.

CISD 31 — Database Management

54.00 hours lecture. Degree Appropriate

54.00 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.

CISD 32 — Oracle Forms and Reports

4 Units Degree Appropriate

4 Units

54.00 hours lecture.

54.00 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 Units 54.00 hours lecture. Degree Appropriate

54.00 hours lab.

Advisory: CISD 31 highly recommended

Provides the Oracle data-base administrator (DBA) a firm foundation in basic administrative tasks and the necessary knowledge and skills to set up, maintain, organize and troubleshoot an Oracle database. Presents an in-depth coverage on Oracle internal structures, the database administrative tools, user management, management of database logical and physical layouts.

CISD 34 — High Performance Oracle SQL Tuning

27.00 hours lecture.

Degree Appropriate

2 Units

27.00 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.

CISD 40 — Database Design

2 Units Degree Appropriate

27.00 hours lecture. 27.00 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

54.00 hours lecture.

Degree Appropriate, CSU

54.00 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 54.00 hours lecture.

3.5 Units Degree Appropriate, CSU, UC

27.00 hours lab.

Advisory: CISB 15 or COMP 12 and CISB 11

Develops basic understanding of information systems and the discipline of systems analysis in relation to the system development life cycle. Develops skills in applying the tools, techniques, and concepts of systems analysis to information systems development. Application of structured analysis and design methods and tools, including CASE tools.

CISM 14 — Computer Information Systems Seminar Degree Appropriate

Spring Semester (May be taken two times for credit.)

54.00 hours lecture.

54.00 hours lab.

Advisory: CISM 11 and at least one of the following: CISD 14, CISP 14, CISP 34 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.

CISM 21 — Client/Server Architecture

4 Units Degree Appropriate

4 Units

54.00 hours lecture.

54.00 hours lab.

Advisory: CISD 14 or CISP 14 or CISP 41

Architectural framework and components of a client/server environment. 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, applications development tools, and distributed systems management; and application prototyping.

CISM 31 — AS/400 System Administration

Degree Appropriate

4 Units

54.00 hours lecture. 54.00 hours lab.

Advisory: CISB 11 or computer work experience

Administrating the IBM AS/400 Computer System using OS/400 (operating system/400) services: OS/400 user interface, CL command interface, navigating system hardware features and licensed programs, 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

54.00 hours lecture. Degree Appropriate

54.00 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 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 studentdeveloped CL based solutions. Course includes extensive hands-on experience using an AS/400.

COMPUTER INFORMATION SYSTEMS: NETWORKING

CISN 11 — Telecommunications/Networking

4 Units Degree Appropriate, CSU

54.00 hours lecture.

54.00 hours lab.

Advisory: CISB 11 or CISB 15

NASM core. Prepare for Cisco CCNA 1st year certification. Covers fundamental concepts and design in telecommunications/networking including: network standards, TCP/IP, OSI, network protocols, transmission media, hardware architecture, local area network, wide area network, remote connectivity, Network operating system (Microsoft Windows, Novell NetWare, and UNIX), troubleshooting, maintaining/upgrading network, network security, vulnerability, and intrusion detection.

CISN 14 — Advanced Telecommunications

4 Units

54.00 hours lecture. 54.00 hours lab.

Degree Appropriate

Advisory: CISM 11, CISN 11, CISN 41

Concepts of advanced telecommunication and network analysis. Topics including: review of networking and telecommunications protocols; advanced TCP/IP subnet and OSI Model applications; use of protocol analysis tool to capture data frame and troubleshoot advanced network problems through the decode analysis of the captured data frame; design and analysis of LAN, WAN, and Wireless networks in various environments and appraisal of network security, vulnerability and intrusion detection.

CISN 21 — Windows Operating System

54.00 hours lecture.

Degree Appropriate, CSU

4 Units

54.00 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 applications, analyze and debug Windows operating environment problems, secure a Windows environment, conduct research on the Internet.

CISN 24 — Window Server Network & Security Administration 4 Units 54.00 hours lecture. Degree Appropriate, CSU

54.00 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.

CISN 31 — Linux Operating System

4 Units

54.00 hours lecture. Degree Appropriate, CSU

54.00 hours lab. *Advisory: CISB 11*

Concepts and skills in planning and installing Linux Operating System and its graphical interface; using Linux Shells and system administration commands; managing user accounts; installing hardware and software; creating scripts to automate system administration; and maintaining file systems and system resources.

CISN 34 — LINUX Networking and Security

4 Units

54.00 hours lecture. Degree Appropriate, CSU

54.00 hours lab.

Advisory: CISN 31

Network installation and management using Linux operating system and its security components. In-depth study of concepts TCP/IP, IP addressing, network protocols and servers, gateways, routers, bridges and applications. Creating Linux intranets and connecting to Internet.

CISN 41 — Novell/SUSE Linux Enterprise Server Administration 4 Units

54.00 hours lecture.

Degree Appropriate, CSU

54.00 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, ZEN (Zero Effort Network), IP subnet.

CISN 51 — Cisco CCNA Networking and Routing

Advisory: CISN 11 or CISN 24 or CISN 34 or CISN 41

(Static Route, RIP, IGRP, EIGRP, and OSPF).

CISP 11 — Programming in Visual Basic

CISP 14 — Advanced Basic Programming

Advisory: CISB 11 OR CISB 15 or computer work experience

CNASM (Computer Network Administration and Security Management)

subnet, TCP/IP, IGP, EGP, and network design. Configure Cisco IOS, router,

switch, VLAN, access list, PPP, frame relay, HDLC, and routing protocols

COMPUTER INFORMATION SYSTEMS: PROGRAMMING

Programming using Visual Basic. Planning and writing object-oriented

applications using Windows Forms and Web Forms; user interface

structures; lists and arrays; printing and Print Previews; accessing a

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

searching, and updating database tables; creating recordsets using SQL,

producing business graphics; using OLE objects and DLLs; distributing

files; validating input data; trapping errors; designing, displaying,

design classes, objects, properties, methods and events; control

AS degree core course, Prepare for Cisco CCNA certification, Cover

LAN/WAN (Local/Wide Area Network) fundamentals, advanced IP

54.00 hours lecture.

54.00 hours lecture.

54.00 hours lecture.

54.00 hours lab.

Advisory: CISP 11

54.00 hours lab.

database.

54.00 hours lab.

4 Units | CISP 31 — Programming in C++

4 Units

4 Units

Degree Appropriate, CSU, UC

Degree Appropriate, CSU, UC

Degree Appropriate, CSU 54.00 hours lecture.

4 Units Degree Appropriate, CSU, UC

54.00 hours lab.

Advisory: CISP 11 or CISP 21

Object-oriented programming using C++ as the programming language. Object oriented design, documentation, and debugging techniques. Elementary control structures, classes, overload operators and functions, and single and multiple inheritance.

CISP 34 — Advanced C++ Programming

4 Units

54.00 hours lecture. Deg

hours lab

Degree Appropriate, CSU, UC

54.00 hours lab.

Advisory: CISP 31

Advanced 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

Degree Appropriate

(May be taken for option of letter grade or Credit/No Credit.) 54.00 hours lecture.

54.00 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 implementing each concept.

CISP 21 — Programming in Java

4 Units

54.00 hours lecture.

Degree Appropriate, CSU, UC

54.00 hours lab.

applications.

Advisory: CISB 11 OR CISB 15

Programming using Java as the programming language. Design and develop object-oriented programs and Web-based applets; documentation 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 24 — Advanced Java Programming

4 Units

54.00 hours lecture. Degree Appropriate

54.00 hours lab. Advisorv: CISP 21

Advanced object-oriented programming concepts and techniques in Java. Course is designed to teach serialization, multithreading, advanced Swing components, networking, server-side technology (servlets, RMI), JDBC, Java Beans, Security (PKI).

CISP 44 — Advanced Programming in C#

4 Units Degree Appropriate

(May be taken for option of letter grade or Credit/No Credit.) 54.00 hours lecture.

54.00 hours lab.

Prereauisite: 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.

CISP 51 — Principles of Object-Oriented Design

2 Units Degree Appropriate

27.00 hours lecture. 27.00 hours lab.

Advisory: CISP 11 or CISP 21 or CISP 31

Provides instruction in object-oriented design and patterns, vital concepts for object-oriented programming language. Includes object-oriented design, patterns and UML within programming that will enable students to build large packages and business applications.

COMPUTER INFORMATION SYSTEMS: SECURITY

CISS 11 — Practical Computer Security

2 Units

27.00 hours lecture.

Degree Appropriate

27.00 hours lab.

Advisory: CISB 11

Introductory course in computer security. Provides awareness for all computer users to protect user accounts and computer systems from attacks. Hands-on projects illustrate security software and hardware configuration.

CISS 13 — Principles of Information Systems Security 4 Units 54.00 hours lecture. Degree Appropriate

54.00 hours lab.

Advisory: CISB 11

Introductory course in information systems security covering the ten domains needed for the Certified Information Systems Security Professional (CISSP).

CISS 15 — Operating Systems Security

4 Units

54.00 hours lecture.

Degree Appropriate

54.00 hours lab.

Advisory: CISB 11, CISN 21

Advanced aspects of operating systems security: from how attackers operate to how viruses strike. Covers strengthening operating systems and repelling attacks. Fundamental knowledge of a full range of security concepts and techniques and application to different operating systems (Windows, Unix etc.)

CISS 21 — Network Vulnerabilities and Countermeasures 4 Units 54.00 hours lecture. Degree Appropriate, CSU

54.00 hours lab.

Concepts of network vulnerabilities from a hacker's perspective. Addresses the latest cutting edge attacks and common attacks still 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.

CISS 23 — Network Analysis, 4 Units **Intrusion Detection/Prevention Systems**

54.00 hours lecture.

Degree Appropriate, CSU

54.00 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 qualities that 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 troubleshoot network problems.

CISS 25 — Network Security and Firewalls

4 Units Degree Appropriate, CSU

54.00 hours lecture.

54.00 hours lab.

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 analysis, IPsec, Ssh (Secure Shell), and secure Perimeter design. Lab assignments will provide hands-on practice in installing.

CISW 11 — Introduction to Internet Technologies 54.00 hours lecture.

4 Units

Degree Appropriate, CSU

54.00 hours lab.

Advisory: CISB 11 or CISB 13 or CISB 15

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.

CISW 21 — Secure Client Side Web Programming 4 Units

54.00 hours lecture.

Degree Appropriate

54.00 hours lab.

Advisory: CISB 15 or CISW 11

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.

CISW 24 — Secure Server Side Web Programming

4 Units

54.00 hours lecture.

Degree Appropriate

54.00 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.

CISW 31 — Secure Web Servers

4 Units

Degree Appropriate

54.00 hours lecture. 54.00 hours lab.

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.

CISW 41 — XML Secure Programming

3 Units

54.00 hours lecture.

Degree Appropriate

Advisorv: CISW 21

Principles, components and benefits of the Extensible Markup Language (XML), including advanced concepts of XPointers, XLink, and XSLT. Apply XML secure programming using DOM and SAX and standards such as Canonicalization, Signatures and Encryption.

CISW 49 — Service Oriented Architecture Concepts & Practice 3 Units 54.00 hours lecture. Degree Appropriate

Prerequisite: CISW 41

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 into applications and databases and enterprise level systems.

CSCI 110 — Fundamentals of Computer Science

3.5 Units

54.00 hours lecture.

Degree Appropriate, CSU, UC

27.00 hours lab.

Prerequisite: MATH 71 or MATH 71B or MATH 72 or equivalent

Advisory: Eligibility for ENGL 1A

Basic concepts of computer hardware and software. General computer organization and information representation. Binary and hexadecimal number systems. Algorithm design and problem-solving techniques. Introduction to programming using a high level language (C, C++ or Java.)

CSCI 140 — C++ Language and Object Development 4 Units (CAN CSC118) Degree Appropriate, CSU, UC

54.00 hours lecture.

54.00 hours lab.

Prerequisite: CSCI 110 or equivalent programming experience 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.

CSCI 145 — Java Language and Object Oriented Programming 4 Units 54.00 hours lecture. Degree Appropriate, CSU, UC

54.00 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 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 10Degree Appropriate, CSU, UC

54.00 hours lecture. Prereauisite: CSCI 110 Corequisite: CSCI 150L

Organization and operation of real computer systems at the assembly 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.

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.)

Coreauisite: CSCI 220

54.00 hours lab.

Corequisite: CSCI 150 and scientific algorithms and data struct ures in C++ or Java is stronaly recommended

Advisory: CSCI 140; Language experience programming general and scientific algorithms and data structu res in C++ or Java is strongly recommended

Complements the lecture material in CSCI 150. Development/debugging of assembly language programs.

CSCI 170 — Introduction to Unix Operating System 3.5 Units

Fall Semester

Degree Appropriate, CSU, UC

54.00 hours lecture.

27.00 hours lab.

Prerequisite: Completion of CSCI 110

Introduction to the UNIX operating system, system administration and 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 Science 4 Units Degree Appropriate, CSU, UC 72.00 hours lecture.

Prereauisite: MATH 71 or eauivalent

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.

CSCI 210 — Applied Logic for Computers 3 Units

54.00 hours lecture.

Degree Appropriate, CSU, UC

Prereauisite: CSCI 110

Basic concepts of digital systems, introduction to Boolean algebra, truth tables, Karnaugh maps, combinational elements and networks, state diagrams, state tables, sequential elements and networks.

CSCI 220 — Data Structures I

3 Units Fall Semester Degree Appropriate, CSU, UC

54.00 hours lecture.

Prerequisite: CSCI 140 or CSCI 145

Corequisite: CSCI 220L

Abstract data types and running time analysis tools. Linear data structures including sets, stacks, gueues, 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 Degree Appropriate, CSU, UC

(May be taken for Credit/No Credit only.)

54.00 hours lab.

Fall Semester

An independent study program designed to complement the lecture material presented in CSCI 220, Data Structures. Hands-on computer work will include problem solving in linear data structures, strings, and trees.

CSCI 230 — Data Structures II

3 Units

1 Unit

Degree Appropriate, CSU, UC Spring Semester

54.00 hours lecture. Prerequisite: CSCI 220

Corequisite: CSCI 230L

Basic searching/sorting algorithms, hashing, graphs, memory/disk management, B-trees, advanced tree structures and analysis.

CSCI 230L — Data Structures II Laboratory Spring Semester Degree Appropriate, CSU, UC

(May be taken for Credit/No Credit only.)

54.00 hours lab. Coreauisite: CSCI 230

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.

CORRECTIONAL SCIENCES

CORS 10 — Introduction to Correctional Sciences 3 Units

Spring Semester Degree Appropriate, CSU

54.00 hours lecture.

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.

CORS 15 — Control and Supervision of the Offender 3 Units Fall Semester Degree Appropriate

54.00 hours lecture.

Examine methods of controlling and supervising inmates. Emphasizes California's methods in rapidly-expanding institutions.

CORS 20 — Correctional Law

3 Units

Spring Semester

Degree Appropriate

54.00 hours lecture.

Legal and due process rights for inmates. Inmate rights vs. needs of society. State, federal, and appellate court decisions.

CORS 25 — Probation and Parole

3 Units

Fall Semester

Degree Appropriate

54.00 hours lecture.

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.

CORS 30 — Ethnic Relations in Corrections

3 Units

Spring Semester

Degree Appropriate

54.00 hours lecture.

A historical survey of minority roles, problems and relationships in America. Stresses cultural and racial differences and interpersonal relationships of correctional staff and clients.

CORS 35 — Interviewing and Counseling in Corrections 3 Units 54.00 hours lecture. Degree Appropriate

Techniques of interviewing and counseling in the field of corrections with emphasis on practical application. Needs of the client and agency will be stressed.

CORS 40 — Crime and Delinquency

3 Units

54.00 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 control used by society.

CORS 45 — The Violent Offender

3 Units

54.00 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.

COUNSELING

Cluster repeatability:

Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values. Cluster: COUN 99A, COUN 99B

COUN 1 — Introduction to College

1 Unit

(May be taken two times for credit.) (May be taken for Credit/No Credit only.) Degree Appropriate, CSU

18.00 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 improve skills through further instruction and practice.

COUN 2 — College Success Strategies

3 Units

Degree Appropriate, CSU, UC

(May be taken for option of letter grade or Credit/No Credit.) 54.00 hours lecture.

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.

COUN 5 — Career/Life Planning

3 Units

54.00 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 selfmanagement style. Develop decision-making and goal-setting skills and identify barriers to success. Explores careers and job search techniques.

COUN 7 — Introduction to the Transfer Process

2 Units

Degree Appropriate, CSU

(May be taken for option of letter grade or Credit/No Credit.) 36.00 hours lecture.

Advisory: ENGL 68

Introduction and orientation to the transfer process to a four-year institution. Includes an in-depth exploration of transfer requirements, admission procedures and requirements for majors. Also explores academic and support services, financial aid and other transitional issues to enable students to make informed choices on majors and fouryear institutions and in academic planning. Field trips are required.

COUN 20 — Peer Counselor Training

2 Units

(May be taken two times for credit.)

Degree Appropriate, CSU

36.00 hours lecture.

Prerequisite: Eligibility for ENGL 68

Designed for group experiences with interpersonal communication and discussion of approaches to peer counseling and advising at Mt. SAC. 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 and practice.

COUN 51 — Career Planning

(May be taken two times for credit.) (May be taken for Credit/No Credit only.) Degree Appropriate, CSU

18.00 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.

COUN 54 — Single Parent Academy

(May be taken four times for credit.)

COUN 99A — Special Projects in Counseling

54.00 hours lecture.

18.00 hours lecture.

parents.

3 Units

1 Unit

2 Units

Degree Appropriate

Degree Appropriate, CSU

Degree Appropriate, CSU

DNCE 2A-2 — Ballet I (May be taken four times for credit.) .5 Unit

Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.)

36.00 hours activity.

Basic vocabulary, technique and movement combinations for ballet. Students who repeat this course will improve skills through further instruction and practice.

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.) 54.00 hours activity.

Intermediate technique, vocabulary and movement combinations of ballet. Students who repeat this course will improve proficiency through continued instruction and practice.

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.) 36.00 hours activity.

Intermediate technique, vocabulary and movement combinations for ballet. Students who repeat this course will improve skills through further instruction and practice.

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.) 54.00 hours activity.

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.

DNCE 3-2 — Ballet 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.) 36.00 hours activity.

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 skills through further instruction and practice.

DNCE 4 — Choreography

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.) 108.00 hours activity.

Prerequisite: DNCE 12A or DNCE 12B or DNCE 13 or DNCE 12A-2 or DNCE 12B-2 or DNCE 13-2

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.

COUN 99B — Special Projects in Counseling

ensure that proficiencies are enhanced.

(May be taken four times for credit.) 36.00 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

Develop personal, educational, and career/life planning skills for single

In order to offer selected students recognition for their academic

enrolling in this course. Students repeating this course will make

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

individual contracts of a more advanced nature with the instructor to

DANCE: ACTIVITY

DNCE 1 — Ballet Fundamentals

ensure that proficiencies are enhanced.

2 Units

.5 Unit

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.) 108.00 hours activity.

Introduces the fundamentals of ballet and an appreciation of ballet as an art form. Students who repeat this course will improve proficiency through continued instruction and practice.

DNCE 1-2 — Ballet Fundamentals

(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36.00 hours activity.

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.

DNCE 2A — Ballet I

(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.)

54.00 hours activity.

Basic vocabulary, technique, and movement combinations for ballet. Students who repeat this course will improve proficiency through continued instruction and practice.

DNCE 4-2 — 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.) 36.00 hours activity.

Prerequisite: DNCE 12A or DNCE 12B or DNCE 13 or DNCE 12A-2 or DNCE 12B-2 or DNCE 13-2

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.

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.) 54.00 hours activity.

Prerequisite: DNCE 12A or DNCE 12B or DNCE 13 or DNCE 12A-2 or DNCE 12B-2 or DNCE 13-2

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.

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.) 54.00 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 Tango. Students who repeat this course will improve skills through further instruction and practice.

DNCE 11A-2 — Social Dance Forms I

.5 Unit

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.) 36.00 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 Tango. Students who repeat this course will improve proficiency through continued instruction and practice.

DNCE 11B — Social Dance Forms II

(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54.00 hours activity.

Advanced social dance techniques. Focus on improving 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 Tango. Students who repeat this course will improve proficiency through continued instruction and practice.

DNCE 11B-2 — Social Dance Forms 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.) 36.00 hours activity.

Advanced social dance techniques. Focus on improving 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 Tango. Students who repeat this course will improve proficiency through continued instruction and practice.

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.) 54.00 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

(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36.00 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 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.) 54.00 hours activity.

Intermediate technique and movement combinations for modern dance. 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.) 36.00 hours activity.

Intermediate technique and movement combinations for modern dance. Students who repeat this course will improve proficiency through continued 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.)

108.00 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 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.) 36.00 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 13-3 — Modern 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.) 54.00 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 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.) 54.00 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 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.) 36.00 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 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.) 54.00 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 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.) 36.00 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 15 — Jazz Performance

Degree Appropriate, CSU, UC (May be taken four times for credit.) (May be taken for option of letter grade or Credit/No Credit.) 54.00 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 practice.

DNCE 15-2 — Jazz Performance

(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36.00 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.

DNCE 17 — Jazz 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.) 108.00 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 17-2 — Jazz Fundamentals .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.) 36.00 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 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.) 54.00 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 18A — Tap 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.) 54.00 hours activity.

Presents basic technique, rhythms and routines for tap dance. Students who repeat this course willimprove skills through further instruction and practice.

DNCE 18A-2 — Tap I

1 Unit

.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.) 36.00 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 18B — Tap II

(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54.00 hours activity.

Intermediate technique, rhythms and routines for tap dance. Students who repeat this course will improve skills through further instruction and practice.

DNCE 18B-2 — Tap II .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.) 36.00 hours activity.

Intermediate technique, rhythms and routines for tap dance. Students who repeat this course will improve skills through further instruction and practice.

DNCE 19 — Tap 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.) 54.00 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.

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.) 36.00 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.

DNCE 22 — Dance Rehearsal

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.) 54.00 hours activity.

Designed for the experienced dancer to work in a rehearsal environment and to be a participant in the beginning elements of concert production. Students who repeat this course will improve skills through further instruction and practice.

DNCE 22-2 — Dance Rehearsal

.5 Unit

1 Unit

.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.) 36.00 hours activity.

Designed for the experienced dancer to work in a rehearsal environment and to be a participant in the beginning elements of concert production. Students who repeat this course will improve skills through further instruction and practice.

DNCE 24 — Dance Production

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.) 108.00 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 further instruction and pra ctice.

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.) 54.00 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 further instruction and practice.

DNCE 24-4 — Dance Production 1.5 Units

Degree Appropriate, CSU, UC (May be taken four times for credit.) (May be taken for option of letter grade or Credit/No Credit.) 81.00 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 further instruction and pra ctice.

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.) 54.00 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 28-2 — Theater Dance I

.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.) 36.00 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 29 — Theater Dance 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.) 54.00 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 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.) 36.00 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 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.) 54.00 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 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.) 36.00 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 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.) 108.00 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 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.) 36.00 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

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.) 54.00 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 32 — Commercial 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.) 54.00 hours activity.

Provides the intermediate to advanced jazz dancerthe opportunity to experience the different techniques of leading commercial dancers, teachers and choreographers. Students who repeat this course wil I improve skills through further practice.

DNCE 32-2 — Commercial 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.) 36.00 hours activity.

Provides the intermediate to advanced jazz dancerthe opportunity to experience the different techniques of leading commercial dancers, teachers and choreographers. Students who repeat this course wil I improve skills through further practice.

DNCE 33 — Improvisation

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.) 54.00 hours activity.

Provides the opportunity to experience the creative process of improvisation in dance and choreography. For all levels of dance. Students who repeat this course will improve proficiency through continued instruction and practice.

DNCE 33-2 — Improvisation

.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.) 36.00 hours activity.

Provides the opportunity to experience the creative process of improvisation in dance and choreography. For all levels of Modern Dance. Students who repeat this course will improve proficiency through continued instruction and practice.

DNCE 34 — Dance Directives

1 Unit

(May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 54.00 hours activity.

Prerequisite: Admission by audition

Provides the intermediate or advanced student the practical experience to assist an instructor in the creation and instruction of a dance class. Students who repeat this course will improve proficiency through continued instruction and practice.

DNCE 34-2 — Dance Directives

.5 Unit

(May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36.00 hours activity.

Prerequisite: Admission by audition

Provides the intermediate or advanced student the practical experience to assist an instructor in the creation and instruction of a dance class. Students who repeat this course will improve proficiency through continued instruction and practice.

DNCE 35 — Repertory

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.) 108.00 hours activity.

Prerequisite: Admission by audition

Provides the opportunity for the advanced dancer to learn choreography and to perform repertory pieces at workshops and special events. Students who repeat this course will improve skills through further instruction and practice.

DNCE 39A — Alignment and Correctives 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.) 54.00 hours activity.

Based on exercises and concepts developed by Joseph Pilates. Includes basic mat, floor, special conditioning exercises and body awareness resulting in improved alignment, strength, flexibility, control, coordination and breathing. The mat work leads to apparatus work (on the professional reformer) emphasizing stretch, strength and trunk stability and alignment. Students who repeat this course will improve skills through further instruction and practice.

DNCE 39A-2 — Alignment and Correctives 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.) 36.00 hours activity.

Based on exercises and concepts developed by Joseph Pilates. Includes basic mat, floor, special conditioning exercises and body awareness resulting in improved alignment, strength, flexibility, control, coordination and breathing. The mat work leads to apparatus work (on the professional reformer) emphasizing stretch, strength and trunk stability and alignment. Students who repeat this course will improve skills through further instruction and practice.

DNCE 39B — Alignment and Correctives 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.) 54.00 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 apparatus work (on the professional reformer) developing in improved body alignment, strength, flexibility and control. Students who repeat this course will improve skills through further instruction and practice.

DNCE 39B-2 — Alignment and Correctives 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.) 36.00 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 apparatus work (on the professional reformer) developing in improved body alignment, strength, flexibility and control. Students who repeat this course will improve skills through further instruction and practice.

DNCE 40 — Conditioning Through Dance

(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54.00 hours activity.

Improves fitness through the coordination of dance exercises. Focuses on strength, flexibility and range of motion. Designed for the nondancer. 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.) 36.00 hours activity.

Improves fitness through the coordination of dance exercises. Focuses on strength, flexibility and range of motion. Designed for the nondancer. However, balance and coordination will benefit dancer and non-dancer alike. Students who repeat this course will improve skills through further instruction and practice.

DANCE: THEORY

DN-T 18 — Introduction to Dance

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC

Advisory: Eligibility for ENGL 68

A survey of the profession of dance and its various art forms through lecture, discussion, demonstration, and participation. Includes multicultural dance interpretations.

DN-T 20 — History and Appreciation of Dance 3 Units

54.00 hours lecture.

Degree Appropriate, CSU, UC

Advisory: Eligibility for ENGL 68

Survey of theatrical dance in western civilization. History of dance in chronological sequence emphasizing the cultural background and historical development of various forms and styles of dance to include discussion of the influence of theatrical dance on other art forms.

DISABLED STUDENTS

DSPS 10 — College Transition Strategies for Students with Disabilities

3 Units

Non-Degree Credit

(May be taken for option of letter grade or Credit/No Credit.) 54.00 hours lecture.

Advisory: Eligibility for READ 80

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, selfmanagement, educational accommodations, effective learning methods, and goal setting.

DSPS 11 — Assessment of Learning Disabilities

1 Unit

(May be taken for Credit/No Credit only.) Non-Degree Credit 18.00 hours lecture.

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.

DSPS 15 — Personalized Career Exploration 1 Unit for Students with Disabilities

(May be taken three times for credit.) Non-Degree Credit (May be taken for Credit/No Credit only.)

18.00 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 16 — Educational and Career Options for Students with Disabilities

(May be taken three times for credit.) Non-Degree Credit (May be taken for Credit/No Credit only.)

18.00 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 further instruction and practice.

DSPS 20 — Improving Spelling and Reading of Words 3 Units Pre-Collegiate

(May be taken three times for credit.)

(May be taken for Credit/No Credit only.)

54.00 hours lecture.

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

Non-Degree Credit

(May be taken four times for credit.) (May be taken for Credit/No Credit only.)

54.00 hours lab. Advisory: Concurrent enrollment in ENGL 67 or above, or MATH50 to MATH 130

Strategies for academic success in relationship to disabilities. Primary emphasis will be on the effects of and strategies for auditory 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.

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.)

54.00 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 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.

DSPS 32 — Technology for Students with Learning Disabilities 3 Units

(May be taken two times for credit.)

Non-Degree Credit

(May be taken for Credit/No Credit only.)

54.00 hours lecture.

Advisory: Eligibility for ENGL 67 or AMLA 42W and READ 80 or AMLA 32R. Concurrent enrollment in an academic class that requires reading and writina.

Students with Learning Disabilities can improve their reading comprehension and written expression as applied to assignments in academic classes through the use of technology. A variety of strategies using technology will be introduced to students that will aid them in understanding and learning reading assignments and in expressing their ideas in written assignments. They will select several strategies for more in-depth use and will apply them functionally in academic classes. Concurrent enrollment in an academic class that requires reading and writing is advised.

EDUCATION

EDUC 10 — Introduction to Education

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC 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.

EDUC 16 — Aspects and Issues in Teaching Service Learning $\,$ 3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC

Advisory: Eligibility for ENGL 68

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 responsibilities.

ELECTRONICS

Cluster repeatability:

Credit students are limited to enroll up to 2 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Cluster: ELEC 81. ELEC 82

Cluster repeatability:

Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Cluster: ELEC 91, ELEC 92, ELEC 93, ELEC 94

ELEC 10 — Introduction to Mechatronics

2 Units

18.00 hours lecture. Non-Degree Credit

54.00 hours lab.

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 11 — Technical Applications in Microcomputers

3 Units

(May be taken two times for credit.) Degree Appropriate, CSU

36.00 hours lecture.

54.00 hours lab.

Use of the personal computer (PC) in electronics for technically related applications. Includes word processing, spreadsheets, database, computer presentation methods, e-mail, and job searches. Students who repeat this course will improve skills through further instruction and practice.

ELEC 12 — Computer Simulation and Troubleshooting 2 Units

(May be taken two times for credit.)

Degree Appropriate

18.00 hours lecture.

54.00 hours lab.

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.

ELEC 50A — Electronic Circuits (DC)

4 Units

Degree Appropriate, CSU

54.00 hours lecture. 54.00 hours lab.

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Advisory: Eligibility for MATH 51; ELEC 61 taken concurrently
Direct Current (DC) electrical circuits and their applications. Covers DC
sources, analysis, test equipment, measurements, and troubleshooting of
resistive devices and other basic components. Includes Ohm's Law,
Kirchhoff's law, and network theorems. (Students seeking a survey
course in electronics should take ELEC 10, Introduction to Mechatronics,
rather than ELEC 50A or 50B.)

ELEC 50B — Electronic Circuits (AC)

4 Units

54.00 hours lecture. Degree Appropriate, CSU

54.00 hours lab.

Advisory: ELEC 50A taken prior

Alternating Current (AC) electrical circuits and their applications. Covers AC sources, analysis (using complex numbers), test equipment, measurements, and troubleshooting of basic circuits with capacitors, inductors, and resistors. Includes impedance, resonance, filters, and decibels.

ELEC 51 — **Electronic Devices**

4 Units

54.00 hours lecture.

Degree Appropriate, CSU

54.00 hours lab.

Advisory: ELEC 50B taken prior

Solid-state devices and circuits, including BJT and FET transistors, rectifier diodes, op-amps, voltage regulators, thyristors, oscillators, timers, and their applications. Emphasizes configurations, classes, load lines, characteristics curves, gain, troubleshooting, measurements, and frequency response.

ELEC 53 — Communications Circuits

4 Units

54.00 hours lecture.

Degree Appropriate

54.00 hours lab.

Advisory: ELEC 51 taken prior

Analog and digital communications circuits. Emphasizes analog and digital modulation principles in AM, FM, SSB, PLL, FDM, TDM, modems, fiber optics, and telecommunications circuits. Includes multiplexing, antennas, and signal propagation.

ELEC 54A — Industrial Electronics

4 Units

54.00 hours lecture. 54.00 hours lab. Degree Appropriate, CSU

Advisory: ELEC 51 taken prior

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 54B — Industrial Electronic Systems

3 Units

36.00 hours lecture.

Degree Appropriate, CSU

54.00 hours lab.

Advisory: ELEC 54A taken prior

Expands on circuit theory and demonstrates systems application of industrial electronics including robotics, industrial production and processes, automation, and programmable and motor controllers. Emphasis is on programmable logic controllers (PLCs).

ELEC 55 — Microwave Communications

4 Units

54.00 hours lecture. Degree Appropriate

54.00 hours lab.

Advisory: ELEC 53 taken prior

Microwave components and circuits and their applications with emphasis on satellite technology, including radar, GPS, and others. Stresses Gunn diode oscillators, transmission lines, waveguides, Smith Charts, components, amplification, frequency analysis, and measurement techniques.

ELEC 56 — Digital Electronics

4 Units

54.00 hours lecture.

Degree Appropriate, CSU

54.00 hours lab.

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.

ELEC 61 — Electronic Assembly and Fabrication

2 Units

(May be taken two times for credit.)

Degree Appropriate, CSU

18.00 hours lecture.

54.00 hours lab.

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 be taken two times for credit.) 18.00 hours lecture.

Non-Degree Credit

54.00 hours lab.

Advisory: ELEC 61

Advanced 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 63 — Electronic Assemblies Recertification

1 Unit

(May be taken four times for credit.)

Degree Appropriate

9.00 hours lecture.

27.00 hours lab.

Prerequisite: ELEC 62

Prepares 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.)

ELEC 66 — Electrical Code-Residential

3 Units

54.00 hours lecture.

Non-Degree Credit

Advisory: ELEC 54B and ELEC 54BL

Introduction to the National Electrical Code requirements for residential wiring. 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 Contractors C-10 Electrician license exam.

ELEC 74 — Microprocessor Systems

4 Units

54.00 hours lecture.

Degree Appropriate, CSU

54.00 hours lab.

Advisory: ELEC 56 taken prior

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).

ELEC 76 — Radio Telephone Communications

(May be taken two times for credit.) 54.00 hours lecture.

Non-Degree Credit

Prepares qualified electronic technicians for the FCC and/or NARTE commercial licenses for technicians and engineers in the communications field. 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.) Non-Degree Credit

54.00 hours lab.

Advisory: ELEC 50B taken prior or concurrently plus a laboratory course in the same subject field

Extended laboratory experience supplementary to that available in the regular program. Allows the student to pursue more advanced and complex laboratory projects and experiments.

ELEC 82 — Laboratory Studies in Electronics Technology 2 Units (May be taken two times for credit.) Non-Degree Credit

108.00 hours lab.

Advisory: ELEC 50B taken prior or concurrently plus a laboratory course in the same subject field

Extended laboratory experience supplementary to that available in the regular program. Allows student to pursue more advanced and complex laboratory projects and experiments.

ELEC 91 — Work Experience in Electronics

Degree Appropriate

1 Unit

(May be taken four times for credit.)

(May be taken for Credit/No Credit only.)

75.00 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.

ELEC 92 — Work Experience in Electronics

2 Units

Spring Semester Degree Appropriate

(May be taken four times for credit.) (May be taken for Credit/No Credit only.)

150.00 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.

ELEC 93 — Work Experience in Electronics

3 Units

(May be taken four times for credit.)

Degree Appropriate

(May be taken for Credit/No Credit only.) 225.00 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.

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.)

300.00 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.

ELECTRONICS SYSTEMS TECHNOLOGY

EST 50 — Electrical Fundamentals for Cable Installations 54.00 hours lecture. Degree Appropriate

54.00 hours lab.

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.

EST 52 — Fabrication Techniques for Cable Installations 4 Units

54.00 hours lecture.

Degree Appropriate

54.00 hours lab.

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. Prepares students for the California State Contractors C-7 low voltage systems license.

EST 54 — Cabling and Wiring Standards

4 Units

54.00 hours lecture.

Degree Appropriate

54.00 hours lab.

Advisory: EST 50, EST 52

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.

EST 56 — Home Theater, Home Integration & Home Security Systems

4 Units

54.00 hours lecture.

Degree Appropriate

54.00 hours lab.

Advisory: EST 54

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.

EST 62 — Electronic Troubleshooting- I

54.00 hours lecture. 54.00 hours lab.

Degree Appropriate

4 Units

Advisory: EST 56

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).

EST 64 — Electronic Troubleshooting - II

4 Units

54.00 hours lecture.

Degree Appropriate

54.00 hours lab.

Advisory: EST 62

Troubleshooting advanced electronic video circuits and systems to component level. Includes digital TV and HDTV (plasma, LCD, DLP).

EST 70 — C-7 Low Voltage Systems License Preparation 2 Units (May be taken four times for credit.) Degree Appropriate

36.00 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

EMS 1 — Fundamentals for Paramedics

4 Units

(May be taken four times for credit.) Degree Appropriate 72.00 hours lecture.

Prerequisite: Completed Paramedic Program application, current California EMT I (Basic) certificate, and six months employment as an EMT I Advisory: Eliqibility 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 Paramedics 2 Units**39.00 hours lecture. Degree Appropriate

Prerequisite: Admission to Paramedic Program and EMS 1
Corequisite: EMS 20, EMS 30, EMS 40, EMS 50, and EMS 60
Gross anatomy and physiology of the human body, with applications to paramedic practices.

EMS 20 — Emergency Cardiac Care for Paramedics 1 Unit 20.00 hours lecture. Degree Appropriate

6.00 hours lab.

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Prerequisite: Admission to the Paramedic Program Corequisite: EMS 10, EMS 30, EMS 40, EMS 50, and EMS 60

Certifies paramedics in Basic Life Support (BLS-CPR), Pediatric Advanced Life Support (PALS), and Advanced Cardiac Life Support (ACLS).

EMS 30 — Pharmacology for Paramedics

2 Units

39.00 hours lecture.

Degree Appropriate

Prereauisite: Admission to the Paramedic Program rrently

Corequisite: EMS 10, EMS 20, EMS 40, EMS 50, EMS 60

Commonly used paramedic drugs, with emphasis on dosages supplied and ordered, routes of administration, expected therapeutic outcomes and possible adverse reactions.

EMS 40 — Cardiology for Paramedics

5 Units

91.00 hours lecture. Degree Appropriate

Prerequisite: Admission to the Paramedic Program Corequisite: EMS 10, EMS 20, EMS 30, EMS 50, EMS 60

Familiarizes the paramedic with the normal and the diseased heart; includes assessment tools, interpretation of various dysrhythmias and appropriate paramedic interventions.

EMS 50 — Paramedic Skills Competency

4.5 Units

52.00 hours lecture. Degree Appropriate

104.00 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

8.5 Units

156.00 hours lecture.

Degree Appropriate

Prerequisite: Admission to the Paramedic Program Corequisite: EMS 10, EMS 20, EMS 30, EMS 40, and EMS 50

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.

EMS 70 — Paramedic Clinical Internship

3.5 Units

(May be taken for Credit/No Credit only.) 200.00 hours lab.

Degree Appropriate

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 hospital setting.

EMS 80 — Paramedic Field Externship

8.5 Units

(May be taken for Credit/No Credit only.) 480.00 hours lab.

Degree Appropriate

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
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

144.00 hours lecture.

Degree Appropriate

10 Units

126.00 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.

EMT 90 — Emergency Medical Technician I

10 Units

144.00 hours lecture. 126.00 hours lab. Degree Appropriate

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.

EMT 91 — Emergency Medical Technician I Refresher 2 Units (May be taken four times for credit.) Degree Appropriate 40.00 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

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

EMT 91 — Emergency Medical Technician I Refresher 2 Units (May be taken four times for credit.) Degree Appropriate 40.00 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

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

ENGINEERING

ENGR 1 — Introduction to Engineering

54.00 hours lecture. 1 Unit Prereauisite: ENGR 40

ENGR 41 — Dynamics

Degree Appropriate, CSU, UC

Degree Appropriate, CSU, UC

(May be taken for option of letter grade or Credit/No Credit.) 18.00 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; academic success strategies.

ENGR 8 — Properties of Materials

Prerequisite: ENGR 40 4 Units Degree Appropriate, CSU, UC

(May be taken for option of letter grade or Credit/No Credit.) 72.00 hours lecture.

Prereauisite: CHEM 40 or 50 and PHYS 4A or 2AG

Mechanical, 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; semiconductors; 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.) 36.00 hours lecture.

54.00 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.

ENGR 24 — Engineering Graphics 4 Units

(CAN ENGR 2)

Degree Appropriate, CSU, UC

36.00 hours lecture.

108.00 hours lab.

Prerequisite: ENGR 18 and eligibility for MATH 51

Advisory: COMP 15A

Graphical 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 metal, electrical and civil engineering/ surveying drawings.

ENGR 40 — Statics 3 Units

54.00 hours lecture.

Degree Appropriate, CSU, UC

Prereauisite: PHYS 4A

Static equilibrium of rigid bodies, forces, couples in two-and threedimensional 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 virtua I work. Vector approach.

ENGR 42 — Mechanics of Materials

3 Units

3 Units

54.00 hours lecture.

Degree Appropriate, CSU, UC

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.

Absolute and relative motion of particles and rigid bodies in

Application of Newton's Second Law, work-energy and impulse-

momentum methods. Introduical vibrations. Vector approach.

translational and rotational motion. Instantaneous center of rotation.

ENGR 44 — **Electrical Engineering**

4 Units

Degree Appropriate, CSU, UC

54.00 hours lecture. 54.00 hours lab. Prerequisite: PHYS 4B

Spring Semester

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; three-phase circuits.

ENGINEERING DESIGN TECHNOLOGY

Cluster repeatability:

Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Cluster: EDT 89, EDT 90

EDT 11 — Technical Engineering Drawing I

3 Units

36.00 hours lecture. 72.00 hours lab.

Degree Appropriate, CSU

Advisory: Eliaibility 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

3 Units Degree Appropriate, CSU

36.00 hours lecture. 72.00 hours lab.

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 in either manual or CAD for inclusion in a portfolio.

EDT 14 — Mechanical Design

3 Units

- Geometric Dimensioning and Tolerancing

Degree Appropriate, CSU

36.00 hours lecture. 72.00 hours lab.

Advisory: EDT 11, EDT 12

Use of symbols for tolerance of form and toleranceof position and drawing requirements with respectto actual function and relationship of partfeatures. Studies of related terminology, powertransmission, 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 Applications

4 Units

(May be taken two times for credit.)

Degree Appropriate, CSU

54.00 hours lecture.

54.00 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.

EDT 18 — Engineering CAD Applications

4 Units

(May be taken three times for credit.)

Degree Appropriate, CSU

54.00 hours lecture.

54.00 hours lab.

Advisorv: EDT 11. EDT 16

Intermediate CAD for engineering, explores the 2-D and 3-D environments, 3-D parametric solid modeling, file manipulation related to Windows platforms. Students who repeat this course will improve proficiency and skill levels.

EDT 20 — Technical Descriptive Geometry

3 Units Degree Appropriate, CSU

Spring Semester 36.00 hours lecture.

72.00 hours lab.

Advisorv: 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.

EDT 24 — Engineering CAD 3-D Solids and Surfaces 3 Units (May be taken two times for credit.) Degree Appropriate, CSU

36.00 hours lecture.

72.00 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 proficiency and skill levels.

EDT 26 — Civil Engineering Technology and CAD

Degree Appropriate, CSU

36.00 hours lecture. 72.00 hours lab.

3 Units

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

36.00 hours lecture.

72.00 hours lab.

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.

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.)

75.00 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 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 (May be taken four times for credit.) Degree Appropriate

(May be taken for Credit/No Credit only.)

150.00 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 advanced standing (minimum 12 units in major or equivalent experience.) Students who repeat this course will improve skills through further instruction and practice.

ENGLISH: COMPOSITION

ENGL 1A — Freshman Composition (CAN ENGL 2)

4 Units

Degree Appropriate, CSU, UC

72.00 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 research paper; emphasizes critical reading of academic material.

ENGL 1AH — Freshman Composition - Honors (CAN ENGL 2)

4 Units

4 Units

Degree Appropriate, CSU, UC

72.00 hours lecture.

Prerequisite: Acceptance into the Honors Program

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.

ENGL 1B — English - Introduction to Literary Types 3 Units (CAN ENGL 4) Degree Appropriate, CSU, UC

54.00 hours lecture.

Prerequisite: ENGL 1A or ENGL 1AH

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.

ENGL 1BH — English - Introduction to Literary Types - Honors 3 Units (CAN ENGL 4) Degree Appropriate, CSU, UC 54.00 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 foundatin for personal, cultural, and intellectual growth. An honors course designed to provide an enriched experience. Students may not receive credit for both ENGL 1B and ENGL 1BH.

ENGL 1C — Critical Thinking and Writing

72.00 hours lecture. Degree Appropriate, CSU, UC

Prereauisite: ENGL 1A or ENGL 1AH

Develops critical thinking, reading, and writing skills beyond the level achieved in ENGL 1A. Increases the student's capacity for logical analysis and argumentative writing.

ENGL 1CH — Critical Thinking and Writing - Honors 4 Units

Degree Appropriate, CSU, UC 72.00 hours lecture. Prerequisite: ENGL 1A or ENGL 1AH and acceptance into the Honors Program 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

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.) 54.00 hours lecture.

Prerequisite: ENGL 1A or ENGL 1AH

Elements, processes, and techniques of fiction writing. Includes genre, settings, point of view, character sketch, plot development, description, and dialogue with an emphasis of student development as a writer of fiction through practice and discussion.

ENGL 8B — Creative Writing - Poetry

3 Units

Degree Appropriate, CSU, UC (May be taken two times for credit.) (May be taken for option of letter grade or Credit/No Credit.) 54.00 hours lecture.

Prerequisite: ENGL 1A or ENGL 1AH

Emphasizes the student's development as a poet. Students who repeat this course will improve skills through further instruction and practice.

ENGL 9 — Writing the Personal Journal

3 Units

(May be taken two times for credit.) Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 54.00 hours lecture.

Prerequisite: Eligibility for ENGL 1A

Personal exploration, development of creativity, increased comfort with the writing process, and expanded awareness of otherse 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 writing. Students who repeat this course will improve skills by further instruction and practice.

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.) 18.00 hours lecture.

Linked with a corresponding English course, this course provides handson 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 and student presentations. Students who repeat this course will improve skills through further instruction and practice.

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.) 18.00 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 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.) 18.00 hours lecture.

Prerequisite: Eligibility for ENGL 67

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 66 — Paragraph Writing

(May be taken two times for credit.)

1 Unit Commission on Teaching Credentialing standards for Language Pre-Collegiate Acquisition requirement for elementary school teaching credential.

(May be taken for option of letter grade or Credit/No Credit.) 18.00 hours lecture.

Prerequisite: Eligibility for ENGL 67

Analysis and writing of paragraphs. Through the process of writing, the student learns to state and support a topic idea. Students who repeat this course will improve skills through further instruction and practice.

ENGL 67 — Writing Fundamentals

4 Units

(May be taken two times for credit.)

Pre-Collegiate

(May be taken for option of letter grade or Credit/No Credit.) 72.00 hours lecture.

Prerequisite: Satisfactory score on the English Placement Test or completion of AMLA 42W or completion of LERN 81 Using an integrated approach, develops effective writing based on reading; emphasizing the sentence, the outline, the summary, the paragraph and an introduction to the essay. Gives attention to grammar, punctuation and vocabulary. Develops critical thinking through reading comprehension in conjunction with related writing. Students who repeat this course will improve skills through further instruction and practice.

ENGL 68 — Preparation for College Writing

4 Units

(May be taken two times for credit.)

Degree Appropriate

(May be taken for option of letter grade or Credit/No Credit.) 72.00 hours lecture.

Prereauisite: ENGL 67 or AMLA 43W or satisfactory score on the English Placement Test

Using an integrated approach, continues to develop effective writing based on reading. Reviews paragraph structure, emphasizes development of the academic essay, and introduces principles of documentation. Continues to develop critical thinking through reading of and writing about increasingly complex texts. Students who repeat this course will improve skills through further instruction and practice.

ENGL 75 — Vocabulary Building

(May be taken two times for credit.) Pre-Collegiate (May be taken for option of letter grade or Credit/No Credit.) 54.00 hours lecture.

3 Units

Prerequisite: Eligibility for ENGL 67

Expands students' reading, writing and speaking vocabularies through examination of the principles of word formation, emphasizing prefixes, roots, suffixes and the effective use of dictionaries and other reference works. Students who repeat this course will improve skills through further instruction and practice.

ENGL 81 — Language Acquisition

3 Units

54.00 hours lecture. Prereauisite: ENGL 1A Degree Appropriate, CSU

Introductory course in language structure, linguistics, language development. Explores first and second-language acquisition. Meets the

ENGL 99 — Special Projects in English

2 Units

(May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36.00 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.

FAMILY AND CONSUMER SCIENCES

Cluster repeatability:

Credit students are limited to enroll up to 2 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Cluster: FCS 81, FCS 82, FCS 83, FCS 84

Cluster repeatability:

Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Cluster: FCS 91, FCS 92, FCS 93, FCS 94

FCS 41 — Life Management

3 Units

54.00 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 Maslow's Hierarchy of Needs and systems thinking, and how they apply to the day-to-day use of one's resources including time, energy, abilities, and money. Major topics include steps in value clarification, goal setting, decision making, problem solving, time management, money management, education and career planning, communication skills, handling change and stress, and conflict management. In addition, the course explores the effect of cultural forces and future trends on goals, values, standards, and time management.

FCS 80 — Financial Planning

3 Units

54.00 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 longterm 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 Sciences 1 Unit (May be taken two times for credit.) Degree Appropriate 54.00 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 Family and Consumer Sciences.

FCS 82 — Laboratory Studies in Family and Consumer Sciences 2 Units (May be taken two times for credit.) Degree Appropriate 108.00 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 Family and Consumer Sciences.

FCS 83 — Laboratory Studies in Family and Consumer Sciences 3 Units (May be taken two times for credit.) Degree Appropriate 162.00 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 Family and Consumer Sciences.

FCS 84 — Laboratory Studies in Family and Consumer Sciences 4 Units (May be taken two times for credit.) Degree Appropriate 216.00 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 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.)

75.00 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 the hours per week be equally distributed throughout the semester. Work experience placement is not quaranteed 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 92 — Work Experience in Family and Consumer Sciences 2 Units Degree Appropriate

(May be taken four times for credit.) (May be taken for Credit/No Credit only.)

150.00 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 the hours per week be equally distributed throughout the semester. Work experience placement is not quaranteed 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

(May be taken for Credit/No Credit only.)

225.00 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 the hours per week be equally distributed throughout the semester. Work experience placement is not quaranteed 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 (May be taken four times for credit.) Degree Appropriate

(May be taken for Credit/No Credit only.)

300.00 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 the hours per week be equally distributed throughout the semester. Work experience placement is not quaranteed 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 AND DESIGN

Cluster repeatability:

54.00 hours lab.

Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Cluster: FASH 81, FASH 82, FASH 83

FASH 1 — Fashion Design and CAD Lab

(May be taken three times for credit.)

(May be taken for Credit/No Credit only.)

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 8 — Introduction to Fashion

3 Units

3 Units

1 Unit

Degree Appropriate

54.00 hours lecture. Degree Appropriate, CSU 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.

FASH 9 — History of Costume and Fashion

54.00 hours lecture. Degree Appropriate, CSU

A 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 10 — Clothing Construction I

3 Units

36.00 hours lecture. Degree Appropriate, CSU

54.00 hours lab.

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.

FASH 12 — Clothing Construction II

3 Units

Degree Appropriate, CSU 36.00 hours lecture.

54.00 hours lab.

Prereauisite: FASH 10

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

54.00 hours lecture. Degree Appropriate, CSU 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.

FASH 17 — Textiles

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC Examines the manufacturing of textiles/fabrics and factors that determine the suitability for end use. Topics covered include natural and synthetic fibers, yarns, fabric construction, dyes, finishes, legislation and care. Emphasis is placed on selection criteria for textile product design and recent developments in the textile field.

FASH 20 — Illustration for Fashion and Costume Design 3 Units

(May be taken two times for credit.)

Degree Appropriate

36.00 hours lecture.

54.00 hours lab.

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. Students who repeat this course will improve skills through further instruction and practice.

FASH 21 — Patternmaking I

3 Units

36.00 hours lecture. 54.00 hours lab.

Degree Appropriate, CSU

Prereauisite: 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.

FASH 22 — Fashion Design By Draping

3 Units

36.00 hours lecture.

Degree Appropriate

54.00 hours lab.

Prereauisite: FASH 10

Three dimensional dress design through draping fabrics directly to a dress form to create original designs or to interpret fashion illustrations.

FASH 23 — Patternmaking II

3 Units

(May be taken two times for credit.)

Degree Appropriate

36.00 hours lecture. 54.00 hours lab.

Prerequisite: FASH 21

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. Students who repeat this course will improve skills through further instruction and practice.

FASH 24 — Fashion Patternmaking by Computer

3 Units

Degree Appropriate

(May be taken two times for credit.) 36.00 hours lecture.

54.00 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 improve skills through further instruction and practice.

FASH 25 — Fashion Computer-Assisted Drawing

3 Units

(May be taken two times for credit.)

Degree Appropriate

36.00 hours lecture.

54.00 hours lab.

Advisory: FASH 20

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. Students who repeat this course will improve skills through further instruction and practice.

FASH 26 — Fashion Computer Assisted Design

2 Units

(May be taken two times for credit.)

Degree Appropriate

18.00 hours lecture.

54.00 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 flat drawings. Students who repeat this course will improve skills through further instruction and practice.

FASH 30 — Fashion Design and Product Development I 3 Units 54.00 hours lecture. Degree Appropriate

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.

FASH 31 — Fashion Design and Product Development II 36.00 hours lecture. Degree Appropriate

54.00 hours lab.

Advisory: FASH 15 and FASH 60

Prerequisite: FASH 20, FASH 21 or 22, AND FASH 30

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.

FASH 32 — Fashion Design and Product Development III 3 Units 36.00 hours lecture. Degree Appropriate

54.00 hours lab.

Prerequisite: FASH 31

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.

FASH 62 — Retail Store Management and Merchandising 3 Units 54.00 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.

FASH 63 — Advertising and Promotion

3 Units

54.00 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 FASH 63 and BUSS 33.

FASH 66 — Visual Merchandising Display

3 Units

36.00 hours lecture.

Degree Appropriate, CSU

54.00 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 manneguins, pinning, and flying.

FASH 81 — Work Experience in Fashion

1 Unit

(May be taken four times for credit.) (May be taken for Credit/No Credit only.) Degree Appropriate

75.00 hours lab.

3 Units

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 Fashion

2 Units

(May be taken four times for credit.) (May be taken for Credit/No Credit only.)

Degree Appropriate

150.00 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 Fashion

3 Units

(May be taken four times for credit.) (May be taken for Credit/No Credit only.) Degree Appropriate

225.00 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 90 — Field Studies

1 Unit

(May be taken two times for credit.) 18.00 hours lecture.

Degree Appropriate

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.

FASH 90T-1 — Topics in Fashion Design: Corset Making 2 Units

(May be taken two times for credit.)

Degree Appropriate

18.00 hours lecture. 54.00 hours lab.

Prerequisite: FASH 10 Provides corset making design experience to supplement regular program opportunities for students to pursue more advanced projects. Students who repeat this course will improve skills through further

instruction and practice.

FASH 91 — Field Studies - New York

2 Units (May be taken two times for credit.) Degree Appropriate

36.00 hours lecture.

Corequisite: FASH 90 (May have been taken previously)

Fashion industry travel study in New York City with daily scheduled lectures and field studies of the diverse fashion industries to include major designers, fashion trend services, retailers, manufacturers, costume/textile exhibits and archives, and museums. Students who repeat this course will improve skills through further instruction and practice.

FASH 92 — Field Studies - Fashion Capitals

3 Units (May be taken two times for credit.) Degree Appropriate

54.00 hours lecture.

54.00 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.

FIRE TECHNOLOGY

FIRE 1 — Fire Protection Organization

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.

FIRE 2 — Fire Prevention Technology

3 Units

3 Units

54.00 hours lecture. Degree Appropriate, CSU Introduction and history of fire prevention, including codes, ID and correction of hazards, investigation, and safety education.

FIRE 3 — Fire Protection Equipment and Systems

3 Units Degree Appropriate, CSU

54.00 hours lecture. 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.

FIRE 4 — Building Construction for Fire Protection

54.00 hours lecture. Degree Appropriate, CSU

Advisory: FIRE 1

Building construction and fire code safety effects on preplanning, engineering, inspections, fire ground operations, fire and building codes relationships.

FIRE 5 — Fire Behavior and Combustion

3 Units

3 Units

54.00 hours lecture.

Degree Appropriate, CSU

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 6 — Hazardous Materials/ICS

3 Units

54.00 hours lecture. Degree Appropriate Hazardous 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 Strategy

3 Units

54.00 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-fire planning, organized approach to decision making on the fire scene, basic fire fighting tactics and strategy.

FIRE 8 — Fire Company Organization and Management 3 Units 54.00 hours lecture. Degree Appropriate, CSU

Advisory: FIRE 1

Review of fire department organization, fire company organization, the company officer, personnel administration, communication, fire equipment, maintenance, training, fire prevention, fire fighting, company fire fighting capability, records and reports.

FIRE 9 — Fire Hydraulics

3 Units

54.00 hours lecture. Degree Appropriate, CSU

Advisory: FIRE 1 or equivalent taken prior and eligibility for MATH 51 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 Investigation

3 Units

54.00 hours lecture.

Degree Appropriate, CSU

Advisory: FIRE 1 or equivalent taken prior

Introduction 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.

FIRE 11 — Fire Apparatus and Equipment

3 Units

54.00 hours lecture.

Degree Appropriate, CSU

Advisory: FIRE 1 or equivalent taken prior

Mechanized 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 12 — Wildland Fire Control

4 Units

80.00 hours lecture.

Degree Appropriate, CSU

Advisory: Eligibility for ENGL 68

Addresses wildland fire behavior, safety considerations, strategy, tactics, and operational differences within the wildland urban interface.

FIRE 20 — Fire Instructor 1A

2 Units

40.00 hours lecture.

Degree Appropriate

Advisory: FIRE 86 or equivalent taken prior

State Board of Fire Service accredited course in fire service instructional techniques, including lesson plan development, performance goals, evaluation techniques, instructor performance goals, instructor responsibilities, the learning process, instructional aids and training records. This course applies to California Fire Service Training and Education System certifications.

FIRE 21 — Fire Instructor 1B

2 Units

40.00 hours lecture.

Degree Appropriate

Advisory: FIRE 20 or equivalent taken prior

State Board of Fire Service accredited course in fire service instructional techniques, including methods of instruction, use of audio-visual equipment, employment of instructional aids, test construction, teaching demonstrations and reducing failure rates. This course applies to California Fire Service Training and Educational Systems certifications.

FIRE 22 — Fire Instructor 2A

2 Units

40.00 hours lecture.

Degree Appropriate

Advisory: FIRE 21 or equivalent taken prior

Level 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 2B

2 Units

40.00 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.

40.00 hours lecture.

FIRE 24 — Fire Instructor 2C

2 Units FIRE 40 — Fire Prevention 1A

Degree Appropriate 40.00 hours lecture.

Advisory: FIRE 21 or equivalent taken prior

Advisory: FIRE 5, FIRE 86, or equivalent taken prior

FIRE 41 — Fire Prevention 1B

40.00 hours lecture.

40.00 hours lecture. Degree Appropriate

2 Units

2 Units

Degree Appropriate

Non-Degree Credit

Degree Appropriate

2 Units

Advisory: FIRE 7, FIRE 86 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.

First Level I course qualifies the student as a Certified Prevention Officer through the California Fire Service Training and Education System. Includes responsibilities of fire prevention personnel, procedures for 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, plan review and safety education.

Level I California Fire Service Training and Education System certified course designed for first-in incident commander and company officers. Includes command principles for company officers, initial decision and action processes at a working fire, fire behavior, fireground resources, operations and management.

FIRE 30 — Fire Management 1

2 Units Degree Appropriate

40.00 hours lecture. 2 Units

2 Units

Degree Appropriate

Advisory: FIRE 50 or equivalent taken prior

40.00 hours lecture. Advisory: FIRE 8 or FIRE 86 or equivalent taken prior

Degree Appropriate

FIRE 51 — Fire Command 1B

FIRE 50 — Fire Command 1A

State Board of Fire Services accredited course in fire management designed to develop an understanding of the changing role of the fire officer, building leadership skills, appraising and developing employee performance and communication skills.

Advisory: FIRE 40 or equivalent taken prior 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 protection systems, basic electrical theory, fire drills and training, fire inspection reports, plans specifications processing, and fire prevention complaints.

Level I California Fire Service Training and Education System certified course designed for first-in incident commander and company officers. Provides incident management information on tactics, strategies, and scene management for multi-casualty incidents, hazardous materials incidents, and wildland fires.

FIRE 52 — Fire Command 2A - Command Tactics at Major Fires 2 Units

FIRE 31 — Fire Management 2A - Organizational **Development and Human Relations**

Degree Appropriate

2 Units

Degree Appropriate

Degree Appropriate

2 Units

40.00 hours lecture. Advisory: FIRE 51

Advisory: FIRE 51

Advisory: FIRE 51 taken prior

40.00 hours lecture. Advisory: FIRE 30 taken prior

FIRE 42 — Fire Prevention 1C 2 Units Degree Appropriate 40.00 hours lecture.

Third Level I California Fire Service Training and Education System

certified course in fire prevention. Includes physical properties of

flammable and combustible liquids, storage practices, transportation

Advisory: FIRE 40 and FIRE 41 or equivalent taken prior

and controlling of flammable and liquified gases.

For fire officers managing fires using the Incident Command System (ICS) when commanding multiple alarms. Includes unified command structures and areas of geographical divisions.

Level II California Fire Service Training and Education System chief officers certified course in basic principles of organization and development of general management skills. Includes problem solving, cultural diversity, motivation, performance management and organizational politics.

FIRE 43 — Fire Prevention 2A

40.00 hours lecture.

FIRE 53 — Fire Command 2B - Management of Major Hazardous Material Incidents 40.00 hours lecture.

FIRE 32 — Fire Management 2B - Fire Service Financial Management

2 Units Degree Appropriate

40.00 hours lecture. Advisory: FIRE 30

Advisory: FIRE 40, FIRE 41, FIRE 42 or equivalent taken prior First Level II California Fire Service Training and Education System 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.

For fire officers responsible for hazardous material responses. Includes community planning, research, legislation enforcement and litigation from hazardous material responses.

FIRE 33 — Fire Management 2D - Master Planning 2 Units in the Fire Service

Budget preparation and financial management of personnel, stations,

fire equipment, and other fire department resources.

pertaining to fire and life safety standards.

refrigeration systems, medical gasses and fireworks.

FIRE 54 — Fire Command 2C - High-Rise Fire Tactics 2 Units 40.00 hours lecture. Degree Appropriate Advisory: FIRE 51

40.00 hours lecture. Advisory: FIRE 31

FIRE 44 — Fire Prevention 2B

2 Units Degree Appropriate

A system-based approach applied to high-rise fires. Includes pre-fire planning, building inventory, problem identification, ventilation methods, water supply, elevators, life safety and strategy and tactic operations.

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.

40.00 hours lecture. Advisory: FIRE 40, FIRE 41, FIRE 42, 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

FIRE 55 — Fire Command 2D - Disaster 2 Units **Planning and Management** 40.00 hours lecture. Degree Appropriate

FIRE 34 — Fire Management 2E - Personnel and Labor 2 Units 40.00 hours lecture. Degree Appropriate Advisory: FIRE 31

2 Units

FIRE 45 — Fire Prevention 2C 40.00 hours lecture. Degree Appropriate Advisory: FIRE 40, FIRE 41, FIRE 42, or equivalent taken prior Third Level II California Fire Service Training and Education System certified course in fire prevention for fire personnel. Includes standards

required for industrial ovens, cleaning and finishing processes, welding,

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.

For fire supervisors and managers responsible for supervision, implementing department policies, diversity, labor relations, human resources and legal issues.

FIRE 56 — Fire Command 2E - Wildland Fire Control

40.00 hours lecture.

Degree Appropriate (May be taken four times for credit.) (May be taken for Credit/No Credit only.) Degree Appropriate

2 Units

Advisorv: FIRE 51

For supervisory and managerial fire service personnel responsible for management and coordination of an extended wildland fire incident.

FIRE 60 — Fire Investigation 1A

2 Units

2 Units

40.00 hours lecture. Degree Appropriate

Advisory: FIRE 10, FIRE 86, or equivalent taken prior

Level I California Fire Service Training and Education System certified 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.

FIRE 61 — Fire Investigation 1B

2 Units

40.00 hours lecture. Degree Appropriate

Advisory: FIRE 60 or equivalent taken prior

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.

FIRE 62 — Fire Investigation 2A - Fire Cause Determination 1 2 Units 40.00 hours lecture. Non-Degree Credit

Advisory: FIRE 60, FIRE 61

Designed for in-service fire personnel completing their Fire Investigation Il Certification and provides the information to successfully investigate, apprehend, and convict arsonists.

FIRE 63 — Fire Investigation 2B - Fire Cause Determination 2 2 Units Non-Degree Credit 40.00 hours lecture.

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 68 — Title 19/24 Workshop

(May be taken for Credit/No Credit only.) 24.00 hours lecture.

Degree Appropriate

1 Unit

Advisory: FIRE 40 or equivalent taken prior

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 systems, exits, alarm systems and institutional occupancies.

36.00 hours lecture. Develops knowledge and techniques to enablefire service employees to understand and handle the special problemsthat arise in various phases of the fire science. Special emphasis will be placed on a particular problem as the need arises. Students who repeat this course will improve skills through further instruction and practice.

FIRE 86 — Basic Fire Academy

FIRE 85 — Special Issues in Fire Technology

12 Units

138.00 hours lecture.

Degree Appropriate

382.00 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) Coreauisite: PE-F 53

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

Spring Semester

Non-Degree Credit (May be taken for Credit/No Credit only.)

22.00 hours lecture.

48.00 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.

FIRE 89 — Firefighter Exam Preparation

.5 Unit Non-Degree Credit

(May be taken four times for credit.) (May be taken for Credit/No Credit only.)

8.00 hours lecture.

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.

FIRE 91 — Fire Academy Ladders

1 Unit Non-Degree Credit

Summer Semester

(May be taken for Credit/No Credit only.)

8.00 hours lecture.

32.00 hours lab.

Intensive training in ladder manipulation to prepare students for Fire Academy and physical fitness tests given by the fire departments.

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.)

150.00 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 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

FRCH 1 — Elementary French

4 Units

(CAN FREN 2) Degree Appropriate, CSU, UC

FRCH 1+2 = CAN FREN SEO A

72.00 hours lecture.

Intended for students without previous exposure to French. Begins to develop the ability to converse, read and write in French. Emphasis is on oral proficiency. Includes the study of principles of language learning, pronunciation, basic vocabulary and grammatical structures. Extensive exposure to the cultures of French-speaking countries.

FRCH 2 — Continuing Elementary French

4 Units Degree Appropriate, CSU, UC

(CAN FREN 4) FRCH 1+2 = CAN FREN SEQ A

72.00 hours lecture.

Prerequisite: FRCH 1 or two years of high school French or equiv alent Further development of conversational, reading and writing skills in French, with emphasis on communicative skills, expansion of vocabulary and understanding of structure. Extensive exploration and analysis of the cultures of French-speaking countries.

FRCH 3 — Intermediate French (CAN FREN 8)

4 Units Degree Appropriate, CSU, UC

FRCH 3+4 = CAN FREN SEO B

(May be taken for option of letter grade or Credit/No Credit.) 72.00 hours lecture.

Prereauisite: FRCH 2 or eauivalent

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-speaking countries.

FRCH 4 — Continuing Intermediate French 4 Units

(CAN FREN10)

Degree Appropriate, CSU, UC

FRCH 3+4 = CAN FREN SEO B

(May be taken for option of letter grade or Credit/No Credit.) 72.00 hours lecture.

Prereauisite: FRCH 3 or eauivalent

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.) 72.00 hours lecture.

Prerequisite: FRCH 4 or equivalent

Provides further insight into the cultures of France and other Frenchspeaking 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.

FRCH 6 — Continuing Advanced French

4 Units

Degree Appropriate, CSU, UC

(May be taken for option of letter grade or Credit/No Credit.) 72.00 hours lecture.

Prerequisite: FRCH 5 or equivalent

Extensive reading and analysis of short literary works from diverse French and French-speaking cultures. Discussion of films, newspaper articles and contemporary topics. Develops fluency in French through group discussions, oral presentations, and writing.

FRCH 35 — French Language Laboratory

.5 Unit

(May be taken four times for credit.) (May be taken for Credit/No Credit only.) Degree Appropriate, CSU

27.00 hours lab.

An independent study laboratory course for students who wish to 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.

FRCH 52 — Conversational French 1

3 Units

Degree Appropriate

(May be taken for option of letter grade or Credit/No Credit.) 54.00 hours lecture.

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.

FRCH 53 — Intermediate Conversational French

(May be taken for option of letter grade or Credit/No Credit.)

3 Units

Degree Appropriate, CSU, UC

GEOG 1L — Physical Geography Laboratory 1 Unit 54.00 hours lab. Degree Appropriate, CSU, UC Corequisite: GEOG 1 or GEOG 1H (May have been taken previously)

Observations, experiments and demonstrations in a laboratory setting to explore natural earth processes and systems.

Prerequisite: FRCH 2 or FRCH 52 or equivalent

Develops intermediate level fluency through expansion of vocabulary and practical use of language.

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.) 54.00 hours lecture.

Prerequisite: FRCH 3 or FRCH 53 or equivalent

54.00 hours lecture.

Develops intermediate-high fluency through further expansion of vocabulary and practical use of language. Students who repeat this course will improve skills through further instruction and practice.

FRCH 60 — French Culture Through Cinema

3 Units

Degree Appropriate, CSU, UC

(May be taken for option of letter grade or Credit/No Credit.) 54.00 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 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

3 Units

(CAN GEOG 2) Degree Appropriate, CSU, UC 54.00 hours lecture.

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, Earthsun relationships, oceanic circulation, water and energy budgets, plate tectonics, and the shaping of the physical landscape.

GEOG 1H — Elements of Physical Geography - Honors 3 Units Degree Appropriate, CSU, UC 54.00 hours lecture.

Prerequisite: Acceptance into the Honors Program

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, Earthsun 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.

54.00 hours lab.

GEOG 1LH — Physical Geography Laboratory - Honors 1 Unit Degree Appropriate, CSU, UC

Prerequisite: Acceptance into the Honors Program

Coreauisite: GEOG 1 or GEOG 1H (May have been taken previously) Observations, experiments and demonstrations in a laboratory setting to explore natural earth processes and systems. An honors course designed to provide an enriched experience. Students may not receive credit for both GEOG 1L and GEOG 1LH.

GEOG 2 — Human Geography

3 Units

54.00 hours lecture.

Degree Appropriate, CSU, UC

Prerequisite: Eligibility for ENGL 68

Introduction to human geography with emphasis on critical areas of 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.

GEOG 2H — Human Geography - Honors

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC

Prerequisite: Acceptance into the Honors Program

Introduction to human geography with emphasis on critical areas of 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 Degree Appropriate, CSU

54.00 hours lecture. 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.

GEOG 5 — World Regional Geography

3 Units

54.00 hours lecture. Advisory: Eligibility for ENGL 68 Degree Appropriate, CSU, UC

Developmental study of the world's regions, addressing the major countries in terms of population, resources, economic development, physical environment, and geographic problems.

GEOG 8 — The Urban World

3 Units

Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.)

54.00 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.

GEOG 10 — Introduction to Geographic Information Systems 3 Units (May be taken two times for credit.) Degree Appropriate, CSU, UC

36.00 hours lecture.

54.00 hours lab.

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

Spring Semester

Degree Appropriate

54.00 hours lecture. Prerequisite: GEOG 10

Surveys GIS fundamentals including hands on experience using hardware/software. Emphasizes vector-based data using ArcGIS and raster-based data using the software extensions.

GEOG 30 — Geography of California 3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC Thematic 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 human-environment interface.

GEOG 99 — Special Projects in Geography

2 Units

(May be taken four times for credit.) Degree Appropriate, CSU 36.00 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 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.

GEOLOGY

GEOL 1 — Introduction to Geology

4 Units

Degree Appropriate, CSU, UC

54.00 hours lecture. 54.00 hours lab.

Prerequisite: Eligibility for MATH 51

Introduces students to geological thinking and to the workings of planet Earth, Basic minerals and rocks of Earth's crust, and essentials of earthquakes, volcanoes, and landscapes, framed by plate tectonics operating in concert with atmosphere and ocean processes. A required course for students entering the geoscience major. Field trips required.

GEOL 2 — Historical Geology

4 Units

Degree Appropriate, CSU, UC

(CAN GEOL 4)

54.00 hours lecture.

54.00 hours lab.

Spring Semester

Prerequisite: GEOL 1 or equivalent

This course traces the sequence of geological events of a developing earth as traced from a primordial beginning to the changes that are 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.) 54.00 hours lecture.

54.00 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.

GEOL 6 — Earthquakes

1 Unit

Degree Appropriate, CSU

(May be taken for option of letter grade or Credit/No Credit.) 18.00 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 California

3 Units

54.00 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

Degree Appropriate, CSU, UC 54.00 hours lecture. 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.

GEOL 8H — Earth Science - Honors

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC

Prerequisite: Acceptance into the Honors Program

An honors course designed to provide an enriched experience. 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. Students may not receive credit for both GEOL 8 and GEOL 8H.

GEOL 8L — Earth Science Laboratory

1 Unit

54.00 hours lab. Degree Appropriate, CSU, UC 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 Geology

3 Units

54.00 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, conservation of resources, and protection of the environment. Field trips included.

GEOL 10 — Natural Disasters

3 Units

Degree Appropriate, CSU, UC 54.00 hours lecture. Surveys the hazards faced by humans from the natural environment. Analyzes a variety of hazards from a geological perspective. Studies the impact humans have on influencing or exacerbating natural disasters. Includes the role of government in 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.) 36.00 hours lecture.

54.00 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.

GEOL 12B — Natural History of California

3 Units

Degree Appropriate, CSU

(May be taken for option of letter grade or Credit/No Credit.) 36.00 hours lecture.

54.00 hours lab.

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 Earth

3 Units

Degree Appropriate, CSU. UC 54.00 hours lecture. Origin and evolution of the atmosphere, oceans and continents. Special concentration on the developing landforms through the study of plate tectonics.

GEOL 14 — Field Geology, Sierra Nevada

3 Units

Degree Appropriate, CSU

(May be taken for option of letter grade or Credit/No Credit.) 36.00 hours lecture.

54.00 hours lab.

Field studies of the Sierra Nevada geologic provinces and the surrounding areas.

GEOL 15 — Field Geology, Mojave Desert

3 Units

Degree Appropriate, CSU

(May be taken for option of letter grade or Credit/No Credit.)

36.00 hours lecture.

54.00 hours lab.

Field studies of the geology of the Mojave Desert and surrounding areas.

GEOL 16 — Field Geology, Coast Ranges

3 Units

Degree Appropriate, CSU

(May be taken for option of letter grade or Credit/No Credit.)

36.00 hours lecture.

54.00 hours lab.

Field studies of the geology of the Coast Ranges and the San Andreas 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.)

36.00 hours lecture.

54.00 hours lab.

Field studies of the geology of Death Valley and the Basin and Range Province.

GEOL 19 — Geology Field Studies

2 Units

Degree Appropriate, CSU

(May be taken for option of letter grade or Credit/No Credit.) 108.00 hours lecture.

324.00 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.

GEOL 99 — Special Projects in Geology

2 Units

Degree Appropriate, CSU

(May be taken four times for credit.) (May be taken for option of letter grade or Credit/No Credit.) 36.00 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 before enrolling in this course. Students repeating this course will make individual contracts of a more advanced nature to ensure that proficiencies are enhanced.

GERMAN

GERM 1 — **Elementary German** (CAN GERM 2)

4 Units Degree Appropriate, CSU, UC

GERM 1+2 = CAN GERM SEQ A

72.00 hours lecture.

Prereauisite: Eliaibility 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.

GERM 2 — Continuing Elementary German

4 Units Degree Appropriate, CSU, UC

(CAN GERM 4)

GERM 1+2 = CAN GERM SEQ A

72.00 hours lecture.

Prerequisite: GERM 1 or two years of high school German or equiv alent Further development of conversational reading and writing skills in German with emphasis on communication skills, expansion of vocabulary, and understanding of structure. Further study of Germanic culture.

GERM 3 — Intermediate German

4 Units

(CAN GERM 8)

Degree Appropriate, CSU, UC

GERM 3+4 = CAN GERM SEO B

(May be taken for option of letter grade or Credit/No Credit.) 72.00 hours lecture.

Prerequisite: GERM 2 or three years of high school German or equ ivalent 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 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.)

27.00 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.

HISTORY

HIST 1 — History of the United States

3 Units

54.00 hours lecture.

Degree Appropriate, CSU, UC

Prereauisite: Eliaibility for ENGL 68

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

HIST 3 — History of World Civilization

3 Units

HIST 3+4 = CAN HIST SEQ C

Degree Appropriate, CSU, UC

54.00 hours 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

54.00 hours lecture.

Prerequisite: Acceptance into the Honors Program

The rise and development of civilization from the Stone Age to 1500. An honors course designed to provide an enriched experience. Students may not receive credit for both HIST 3 and HIST 3H.

HIST 4 — History of World Civilization

3 Units

HIST 3+4 = CAN HIST SEO C

Degree Appropriate, CSU, UC

Degree Appropriate, CSU, UC

54.00 hours lecture.

Prerequisite: Eligibility for ENGL 1A

The rise and development of civilization from 1500 to the present.

HIST 4H — History of World Civilization - Honors 3 Units HIST 3H+4H = CAN HIST SEO CDegree Appropriate, CSU, UC

54.00 hours lecture.

Prerequisite: Acceptance into the Honors Program

The rise and development of civilization from 1500 to the present. An honors course designed to provide an enriched experience. Students may not receive credit for both HIST 4 and HIST 4H.

HIST 7 — History of the United States

3 Units

(CAN HIST 8)

HIST 7+8 = CAN HIST SEQ B

54.00 hours lecture.

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 as required by Title 5 of the California Administrative Code.

HIST 7H — History of the United States - Honors

54.00 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. 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

3 Units

3 Units

(CAN HIST10)

Degree Appropriate, CSU, UC

HIST 7+8 = CAN HIST SEO B

54.00 hours lecture.

Prerequisite: Eligibility for ENGL 1A

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

(CAN HIST10) Degree Appropriate, CSU, UC

HIST 7H+8H = CAN HIST SEO B

54.00 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 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 Asia

3 Units

Degree Appropriate, CSU, UC 54.00 hours lecture. Survey history of China, Japan, India, South Asia, and Southeast Asia from the pre-historical era to 1600. Topics include Asian mysticism and religions, art and literature, warfare and political systems, the splendor of the imperial courts, and the lives of the peasants.

HIST 11 — History of Asia

54.00 hours lecture.

3 Units

Degree Appropriate, CSU, UC Surveys history of China, Japan, Southeast Asia, India, and the colonial

systems from 1600 into the 21st 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

Degree Appropriate, CSU, UC

(May be taken for option of letter grade or Credit/No Credit.) 54.00 hours lecture.

Prerequisite: Eligibility for ENGL 68

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.

HIST 19 — History of Mexico

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC The cultural and social history of the Mexican people from pre-Colombian civilization to modern Mexico.

HIST 30 — History of the African American

3 Units

Degree Appropriate, CSU, UC 54.00 hours lecture.

Prerequisite: Eligibility for ENGL 68

In the general framework of the U.S. historical process, surveys the 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 31 — History of the African American

3 Units Degree Appropriate, CSU, UC

54.00 hours lecture. 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.

HIST 35 — History of Africa

3 Units

Degree Appropriate, CSU, UC

(May be taken for option of letter grade or Credit/No Credit.)

54.00 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 21st Century. The American relationship with Africa will be considered.

HIST 36 — Women in American History - Beyond the Stereotypes 3 Units 54.00 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 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

54.00 hours lecture.

Degree Appropriate, CSU, UC

Prerequisite: Eligibility for ENGL 68

The social, intellectual, economic, and political development of California and the Pacific Coast from earliest times to the present.

HIST 40 — History of the Mexican American 3 Units

54.00 hours lecture.

Degree Appropriate, CSU, UC

Prereauisite: Eliaibility for ENGL 68

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 ideals as required by Title 5 of the California Administrative Code.

HIST 44 — History of Native Americans

3 Units

54.00 hours lecture.

Degree Appropriate, CSU, UC

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 and is an essential component of the complete American story.

HIST 99 — Special Projects in History

2 Units

(May be taken four times for credit.) 36.00 hours lecture.

Degree Appropriate, CSU

To 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.

HISTOTECHNOLOGY

Cluster repeatability:

Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Cluster: HT 17, HT 18, HT 19, HT 20

HT 1 — Introduction to Histotechnology

1 Unit

18.00 hours lecture.

Degree Appropriate

Advisory: Eligibilty for ENGL 68

An 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 educational plan and portfolio to be used throughout the remainder of the program.

HT 2 — Scientific Basics for Histologic Technicians

3 Units

54.00 hours lecture. Advisory: Eligibility for ENGL 68 Degree Appropriate

Defines all aspects of general laboratory issues including general laboratory protocols (GLP's), safety, ethics, and terminology relative to the preparation of tissue samples.

HT 10 — Histology

3 Units

36.00 hours lecture.

Degree Appropriate

54.00 hours lab.

Advisory: ANAT 35 Microscopy, cell structure, cell reproduction and staining. Identification of tissues, organs and special microstructures, and their detailed morphology. Involves distinguishing normal features from pathological conditions.

HT 12 — Beginning Histotechniques

5 Units

54.00 hours lecture.

Degree Appropriate

108.00 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.

HT 14 — Advanced Histotechniques

4 Units

54.00 hours lecture.

Degree Appropriate

54.00 hours lab.

Prereauisite: HT 12

Practical applications of special stains for carbohydrates, amyloid, connective tissues, muscle and nervous tissues, including silver stains. Introduction to frozen sections, cytology preparation, and microwave technology. Provides the opportunity to gain proficiency in skills acquired in HT 12, Beginning Histotechniques.

HT 16 — Histochemistry/Immunohistochemistry

4 Units

Degree Appropriate

54.00 hours lab.

Prereauisite: HT 12

54.00 hours lecture.

Practical applications and fundamentals of enzyme and immunological reactions as they relate to tissue staining.

HT 17 — Work Experience in Histotechnology

1 Unit

(May be taken four times for credit.)

Degree Appropriate

(May be taken for Credit/No Credit only.)

75.00 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 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.

HT 18 — Work Experience in Histotechnology

2 Units

Degree Appropriate

(May be taken four times for credit.) (May be taken for Credit/No Credit only.)

150.00 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 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.

HT 19 — Work Experience in Histotechnology

3 Units

(May be taken four times for credit.) (May be taken for Credit/No Credit only.) Degree Appropriate

225.00 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 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.

HT 20 — Work Experience in Histotechnology

4 Units

(May be taken four times for credit.)

Degree Appropriate

(May be taken for Credit/No Credit only.)

300.00 hours lab.

Prerequisite: 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 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 AND RESTAURANT MANAGEMENT

Cluster repeatability:

Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Cluster: HRM 91, HRM 92, HRM 93, HRM 94

HRM 51 — Introduction to Hospitality

3 Units

54.00 hours lecture.

Degree Appropriate, CSU

Prerequisite: Eligibility for ENGL 68

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.

HRM 52 — Food Safety and Sanitation

1.5 Units

27.00 hours lecture.

Degree Appropriate, CSU

Prerequisite: Eligibility for ENGL 68

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 the course.

HRM 53 — Dining Room Service Management

3 Units

Degree Appropriate, CSU

54.00 hours lecture. Advisory: ENGL 68

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.

HRM 54 — Basic Cooking Techniques

3 Units

36.00 hours lecture. 54.00 hours lab.

Degree Appropriate, CSU

Advisory: HRM 52

Basic principles of preparing foods for commercial operations; the use and identification of commercial tools and equipment; extending recipes; and choosing the proper food grade; evaluation of food products, and equipment usage.

HRM 55 — Hospitality Layout and Design

3 Units

54.00 hours lecture. Degree Appropriate, CSU Corequisite: HRM 51 (May have been taken previously)

Evaluation and application of basic principles of design for food service businesses, including traffic flow and footprint layouts. Students will study successful operations layouts and apply principles to design a business, and choose appropriate furnishings and equipment to compliment theme and fit budgets.

HRM 56 — Management of Hospitality **Personnel and Operations**

3 Units

54.00 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 manager's responsibilities in training, coaching, and performance appraisal of employees; decision making, leadership, and planning.

HRM 57 — Restaurant Cost Control

3 Units

2 Units

54.00 hours lecture. Degree Appropriate, CSU Corequisite: HRM 51 (May have been taken previously) 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 58 — Fast Food Service Management

36.00 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.

HRM 60 — Purchasing for the Restaurant Industry

3 Units 54.00 hours lecture. Degree Appropriate, CSU

Corequisite: 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, negotiating the best terms and writing product specifications are covered.

HRM 61 — Menu Planning

54.00 hours lecture.

Advisorv: HRM 51

3 Units

Degree Appropriate, CSU

54.00 hours lecture.

HRM 70 — Introduction to Lodging

Degree Appropriate, CSU

3 Units

1 Unit

Advisorv: HRM 91

Introduction to basics of the lodging industry. Acquaints students with front office operations, accounting, quest 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.

HRM 62 — Catering

3 Units

54.00 hours lecture. Degree Appropriate, CSU 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.

Menu development for all facets of the food service industry including

retail and contract operations; emphasis on the economics of the menu

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.

and the demographics of the area. Analysis of menus with regard to

HRM 63 — Wines and Spirits

3 Units

54.00 hours lecture. Degree Appropriate, CSU In-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 64 — Hospitality Financial Accounting I

3 Units Degree Appropriate, CSU

54.00 hours lecture. 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.

HRM 65 — Hospitality Financial Accounting II

3 Units

54.00 hours lecture. Degree Appropriate, CSU

Prerequisite: HRM 64

Financial accounting specifically for the hospitality industry. Provides accounting practices for balance sheet and income statement data related to hotels, restaurants, clubs and other food service operations. Enables students to distinguish between accounting for sole proprietorships, partnerships and corporations.

HRM 66 — Hospitality Law

3 Units

54.00 hours lecture. Degree Appropriate, CSU

Advisorv: HRM 51

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.

HRM 91 — Work Experience in Restaurant/Hospitality

(May be taken four times for credit.) Degree Appropriate, CSU

(May be taken for Credit/No Credit only.)

75.00 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.

HRM 92 — Work Experience in Restaurant/Hospitality 2 Units

(May be taken four times for credit.)

(May be taken for Credit/No Credit only.)

150.00 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 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

Degree Appropriate, CSU

(May be taken for Credit/No Credit only.)

225.00 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 the faculty. Students who repeat this course will improve skills through further instruction and practice.

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.)

300.00 hours lab.

Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog

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

54.00 hours lecture. Degree Appropriate, CSU, UC

Prereauisite: Eliaibility for ENGL 68

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.

INSPECTION AND 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.) 54.00 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, bonds, and lien laws.

INSP 67 — Reading Construction Drawings

Fall Semester

Degree Appropriate

3 Units

54.00 hours lecture.

Fundamentals of reading construction drawings as related to architecture, construction, interior design, and related fields.

INSP 70 — Elements of Construction 3 Units

54.00 hours lecture. Degree Appropriate, CSU Fundamentals 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.

INSP 71 — Construction Estimating 3 Units

54.00 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.

INSP 87 — Fundamentals of Construction Inspection 3 Units Fall Semester Degree Appropriate

54.00 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 54.00 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

18.00 hours lecture.

Degree Appropriate, CSU

54.00 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 120 — Interior Design Careers

2 Units

4 Units

36.00 hours lecture. Advisory: Eligibility for ENGL 68 Degree Appropriate, CSU

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 130 — Applied Color and Design Theory

54.00 hours lecture.

Degree Appropriate, CSU

54.00 hours lab.

Design theory and application. Utilization of tools, materials, and equipment to develop technical skills applicable to interior, architectural and other related fields of design. Exploration of cultural heritage and psychological implication of design.

ID 150 — Interior Materials and Products

4 Units

72.00 hours lecture. Degree Appropriate, CSU

Advisory: ID 100

Analysis, application, and evaluation of products and materials used in Interior Design, Includes interior textiles, furnishings and finish materials and products.

ID 150A — Interior Materials and Products

36.00 hours lecture.

Degree Appropriate, CSU

Advisorv: ID 100

Analysis, application, and evaluation of products and materials used in interior design. Includes textiles, rugs, carpet, upholstered furniture and window treatments.

ID 150B — Interior Materials and Products

2 Units

2 Units

36.00 hours lecture.

Degree Appropriate, CSU

Advisory: ID 100

Analysis, application and evaluation of products and materials used in interior design. Includes resilient flooring, casegoods, and interior architectural finishing materials.

ID 170 — Space Planning

3 Units

Spring Semester Degree Appropriate, CSU

36.00 hours lecture.

54.00 hours lab.

Advisory: ID 100 or ID 130 or ARCH 11 or ARCH 21

The application of programming theory and techniques in residential and commercial space planning. Skills in drafting and presentation techniques are emphasized in the studio.

ID 180 — History of Interior Architecture & Furnishings I 3 Units

Degree Appropriate, CSU Fall Semester

54.00 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 190 — History of Interior Architecture & Furnishings II 3 Units Degree Appropriate, CSU

Spring Semester 54.00 hours lecture.

Advisory: ID 180 and Eligibility for ENGL 68

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 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.

ID 210 — Fundamentals of Lighting

3 Units

Spring Semester Degree Appropriate 54.00 hours lecture.

Advisory: ID 100, ARCH 11, or equivalent experience

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

Fall Semester Degree Appropriate, CSU

18.00 hours lecture. 54.00 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 components, architectural elements and specification writing will be integrated into research projects emphasizing problem solving approach.

ID 230 — Business and Professional Practice

3 Units Spring Semester Degree Appropriate

54.00 hours lecture. Prerequisite: ID 100 Advisory: ID 120

The business and professional management of an interior design practice including legal issues, project management and business practices.

ID 240A — Interior Design Internship Seminar

Spring Semester Degree Appropriate

(May be taken two times for credit.)

18.00 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 experiences by being placed in a different work site.

ID 240B — Interior Design Internship

1 Unit Degree Appropriate

1 Unit

Spring Semester (May be taken two times for credit.)

(May be taken for Credit/No Credit only.)

75.00 hours lab.

Corequisite: ID 240A

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. 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 240C — Interior Design/Kitchen & Bath Internship Degree Appropriate

(May be taken two times for credit.) 150.00 hours lab.

2 Units

Corequisite: ID 240B (May have been taken previously)

Supervised internship related to classroom-based learning at a National Kitchen and Bath member work site. A minimum of 75 paid 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. 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 250 — Codes and Specifications for Interior Design 2 Units Fall Semester Degree Appropriate, CSU

36.00 hours lecture.

Advisory: ID 215

Explores local, state, and federal regulations, codes and specifications concerning life-safety issues, ADA, and universal design requirements relative to residential and contract design. Attention is given to performance, health safety, and universal design for estimating and specifying interior materials and products.

ID 260 — Rendering and Rapid Visualization

2 Units

2 Units

2 Units

18.00 hours lecture. Degree Appropriate, CSU 54.00 hours lab.

Application of the methods, techniques and tools used in illustrating interior spaces and products with an emphasis on rapid production.

ID 265 — Interior Design Studio III - Kitchens

18.00 hours lecture. Degree Appropriate

54.00 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 solutions for kitchens will be developed in the studio.

ID 275 — Interior Design Studio IV - Bath Design 2 Units

18.00 hours lecture. Degree Appropriate, CSU

54.00 hours lab.

Analysis and application of the design process for space planning. specifications of materials and equipment for bathrooms.

ITALIAN

ITAL 1 — Elementary Italian

4 Units

72.00 hours lecture. Degree Appropriate, CSU, UC Intended for students without previous exposure to Italian. Includes 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.

ITAL 2 — Continuing Elementary Italian

4 Units

72.00 hours lecture. Degree Appropriate, CSU, UC Prerequisite: ITAL 1 or two years of high school Italian or equivalent Further development of conversational, reading and writing skills in

Italian with special emphasis on verbs, grammar and extension of vocabulary. Further study of Italian culture.

ITAL 3 — Intermediate Italian

4 Units

Degree Appropriate, CSU, UC

(May be taken for option of letter grade or Credit/No Credit.) 72.00 hours lecture.

Prerequisite: ITAL 2 or equivalent

Development 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.

ITAL 4 — Continuing Intermediate Italian

4 Units

Degree Appropriate, CSU, UC

(May be taken for option of letter grade or Credit/No Credit.) 72.00 hours lecture.

Prerequisite: ITAL 3 or equivalent

Further practice in speaking and writing of intermediate Italian. Collateral reading in Italian. Extensive exposure to cultural elements from Italy such as art, music, film and history.

ITAL 5 — Advanced Italian

4 Units

4 Units

Degree Appropriate, CSU, UC

(May be taken for option of letter grade or Credit/No Credit.) 72.00 hours lecture.

Prerequisite: ITAL 4 or equivalent

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

Degree Appropriate, CSU, UC

(May be taken for option of letter grade or Credit/No Credit.) 72.00 hours lecture.

Prerequisite: ITAL 5 or equivalent

Extensive advanced reading, writing, and speaking in Italian that further develop cultural insight through the study of various Italian literary types.

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.)

27.00 hours lab.

Prerequisite: Concurrent or previous enrollment in Italian

An independent study laboratory course for students who wish to improve their skills in Italian; may supplement any other Italian course. Requires 24 hours in the language laboratory to receive credit. Students who repeat this course will improve skills through further instruction and practice.

ITAL 52 — Conversational Italian

3 Units

Degree Appropriate

(May be taken for option of letter grade or Credit/No Credit.) 54.00 hours lecture.

Prerequisite: ITAL 1 or equivalent

Development of elementary Italian conversational skills. Emphasis on 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.) 54.00 hours lecture.

Prerequisite: ITAL 2 or ITAL 52 or equivalent

Development of intermediate Italian conversationalskills. Emphasis on collaborative activities and practical use of the language. Extensive 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.) 54.00 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 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

(May be taken for option of letter grade or Credit/No Credit.) 54.00 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.

JAPANESE

JAPN 1 — Elementary Japanese (CAN JAPN 2)

4 Units

Degree Appropriate, CSU, UC

JAPN 1+2 = CAN JAPN SEO A

72.00 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.

JAPN 2 — Continuing Elementary Japanese

4 Units

Degree Appropriate, CSU, UC

JAPN 1+2 = CAN JAPN SEO A

72.00 hours lecture.

(CAN JAPN 4)

Prerequisite: JAPN 1 or two years high school Japanese

Further 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 Japanese

4 Units

Degree Appropriate, CSU, UC

JAPN 3+4 = CAN JAPN SEQ B

72.00 hours lecture.

(CAN JAPN 8)

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

JAPN 3+4 = CAN JAPN SEQ B

72.00 hours lecture.

72.00 hours lecture.

Prerequisite: JAPN 3 or equivalent

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 Japanese

4 Units

Degree Appropriate, CSU, UC

Prerequisite: JAPN 4 or equivalent Advisory: Eligibility for ENGL 68

Advanced 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

.5 Unit

(May be taken four times for credit.) Degree Appropriate, CSU (May be taken for Credit/No Credit only.)

27.00 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.

JAPN 53 — Conversational Japanese

3 Units

Degree Appropriate, CSU, UC

(May be taken for option of letter grade or Credit/No Credit.)

54.00 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.

JOURNALISM

Cluster repeatability:

Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Cluster: JOUR 112, JOUR 113

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.)

54.00 hours lecture.

Prerequisite: ENGL 1A

Survey of the mass media and the interrelationships of media with society, including history, structure, and trends. Additionally, the 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 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.) 54.00 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.

JOUR 102 — Intermediate Newswriting

3 Units

Spring Semester Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54.00 hours lecture.

Prerequisite: JOUR 101 or JOUR 1A

Development of intermediate news reporting techniques combined with the composition of complex journalistic writing forms. Students will write stories for the Mountaineer student newspaper.

JOUR 103 — Working on the Newspaper

3 Units

Degree Appropriate (May be taken four times for credit.) (May be taken for option of letter grade or Credit/No Credit.) 18.00 hours lecture.

108.00 hours lab.

Coreauisite: 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 pr actice.

JOUR 104 — Newspaper Layout & Design

3 Units

(May be taken four times for credit.) Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 36.00 hours lecture.

54.00 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 105 — Editor Training

1 Unit

(May be taken four times for credit.) Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 54.00 hours lab.

Advisory: JOUR 101 or JOUR 1A

Stresses leadership skills in a journalistic setting using the student newspaper as a practical laboratory. Designed for students selected to serve as editors or managers of the paper. Students who repeat this course will improve skills through further instruction and practice.

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.) 54.00 hours lecture.

36.00 hours lab.

Corequisite: COMP 60 or COMP 62 (May have been taken previously) Photojournalism assignments using still, digital, and video cameras for offset printing (newspaper, magazine, etc.) and digital Web presentations. Basics of photojournalism, digital camera operation, shooting techniques, photo-editing software, cutline writing, video and audio production and editing, and Web homepage design production. Students who repeat this course will improve skills through further instruction and practice.

JOUR 107 — Race, Culture, Sex, and Mass Media Images 3 Units

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

(May be taken for option of letter grade or Credit/No Credit.)

Degree Appropriate, CSU (May be taken four times for credit.)

JOUR 112 — Work Experience in Journalism (May be taken for Credit/No Credit only.)

3 Units Non-Degree Credit

225.00 hours lab.

Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog. JOUR 101 or JOUR 1A and ENGL 1A 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 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.

JOUR 108 — Writing for Public Relations

3 Units

Degree Appropriate, CSU

(May be taken for option of letter grade or Credit/No Credit.) 54.00 hours lecture.

Prerequisite: JOUR 101 or JOUR 1A

54.00 hours lecture.

attitudes and behaviors.

Advisory: ENGL 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.

JOUR 109 — Public Relations Internship

3 Units

(May be taken two times for credit.) Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 225.00 hours lab.

Advisory: JOUR 108 or JOUR 8

Field work in pubic relations. 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.

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.) 36.00 hours lecture.

54.00 hours lab.

Prerequisite: JOUR 101 or JOUR 1A

Production of a student-run magazine in a professional setting. 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 111 — Broadcast News Writing

3 Units

Degree Appropriate, CSU

(May be taken for option of letter grade or Credit/No Credit.) 54.00 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 tech nology.

JOUR 113 — Work Experience in Journalism

4 Units

Non-Degree Credit

(May be taken four times for credit.) (May be taken for Credit/No Credit only.)

300.00 hours lab.

Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog. JOUR 101 or JOUR 1A and ENGL 1A 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 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.

LATIN

LATN 1 — Elementary Latin

4 Units

Degree Appropriate, CSU, UC

(May be taken for option of letter grade or Credit/No Credit.) 72.00 hours lecture.

Advisory: Eligibility for READ 90 or eligibility for AMLA 33R 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 the early, classical, and post-classical periods. Includes the study of vocabulary, grammar, Roman culture, and the history of the Latin language.

LATN 2 — Continuing Elementary Latin

4 Units Degree Appropriate, CSU, UC

(May be taken for option of letter grade or Credit/No Credit.) 72.00 hours lecture.

Prerequisite: LATN 1 or one year of high school Latin (C or better) and completed within one year of course registration Advisory: Eligibility for READ 90 or eligibility for AMLA 33R Second semester of coursework for students with prior coursework in Latin. Daily practice in vocabulary, grammar, and reading. Explores Roman history and culture.

LEAD 55 — Exploring Leadership

54.00 hours lecture. Degree Appropriate, CSU Designed to introduce students to the fundamental elements of leadership. Explores leadership theories and models, values and beliefs. Develops a personal philosophy of leadership that includes an understanding of self, others and community. Prepares students for leadership roles in college and community settings.

LERN 48 — Basic Math Skills Review

(May be taken three times for credit.) (May be taken for Credit/No Credit only.)

Pre-Collegiate

3 Units

3 Units

54.00 hours lecture.

24.00 hours lab.

Essential math fundamentals: mulitiplication tables, adding, subtracting, multiplying and dividing whole numbers and fractions. Emphasis on math learning strategies such as organization and math anxiety. Successful completers of this course are eligible for LERN 49. Students who repeat this course will improve skills through further instruction and practice.

LERN 49 — Math Skills Review

3 Units Pre-Collegiate

(May be taken three times for credit.)

(May be taken for Credit/No Credit only.)

54.00 hours lecture.

24.00 hours lab.

Prerequisite: LERN 48 or passing score on current placement test Improves knowledge of basic math. Includes operations and applied problems in whole numbers, fractions, decimals, percentages, and proportions. Covers math study strategies such as overcoming math anxiety. Students who repeat this course will improve skills through further instruction and practice.

LERN 61 — Skills Development Laboratory

(May be taken two times for credit.)

Pre-Collegiate

1 Unit

(May be taken for Credit/No Credit only.)

54.00 hours lab.

Offers individualized instruction in the following subjects: reading comprehension, vocabulary, writing, English grammar, elementary math, algebra review, study techniques (note-taking, goal-setting, test-taking, etc.) One unit requires a total expenditure of 48 hours in lab. Students who repeat will achieve further improvement in the skills previously tested or work on the development of other skills.

LERN 62 — Skills Development Laboratory

2 Units Pre-Collegiate

(May be taken two times for credit.) (May be taken for Credit/No Credit only.)

108.00 hours lab.

Offers individualized instruction in the following subjects: reading comprehension, vocabulary, writing, English grammar, elementary math. algebra review, study techniques (note-taking, test-taking, goal-setting, etc.) Two units require a total expenditure of 96 hours in lab. Students who repeat will achieve further improvement in the skills previously tested or work on the development of other skills.

LERN 81 — Improving Writing

3 Units Pre-Collegiate

(May be taken three times for credit.)

(May be taken for Credit/No Credit only.)

54.00 hours lecture.

24.00 hours lab.

No Course Description

LIBR 1 — Information Resources and Research Methods

3 Units

(May be taken two times for credit.) Degree Appropriate, CSU, UC 54.00 hours lecture.

Advisory: Eligibility for ENGL 68

Research methods that provide lifelong information competency necessary for independent research and critical thinking. Activities include finding, evaluating and documenting information using traditional and electronic resources, including the Internet. Students who repeat this course will improve skills through further instruction and practice.

LIBR 1A — Introduction to Library Research

1 Unit

(May be taken two times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 18.00 hours lecture.

Advisory: Eligibility for ENGL 68

Basic research skills for lifelong information competency necessary for independent research and critical thinking. Topics include search strategies, citation, and use of library resources.

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.)

18.00 hours lecture.

Advisory: Eligibiity for ENGL 68

Research skills using electronic resources for lifelong information competency. Topics include databases, electronic books, search strategies, citation, copyright, and plagiarism.

LITERATURE

LIT 1 — Early American Literature

Degree Appropriate, CSU, UC

(CAN ENGL14)

LIT 1+2 = CAN ENGL SEO C

54.00 hours lecture.

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 2 — Modern American Literature

3 Units

Degree Appropriate, CSU, UC (CAN ENGL16)

LIT 1+2 = CAN ENGL SEQ C

54.00 hours lecture.

Prerequisite: ENGL 1A

Emphasizes characteristic 20th century concerns such as identity and cultural diversity, the American Dream, the effects of industrial and technological development, human isolation and alienation, and examines the impact of these concerns on American literary form and on America's cultural mythology.

LIT 3 — Multicultural American Literature

3 Units

54.00 hours lecture.

Degree Appropriate, CSU

Prerequisite: Eligibility for English 1A

Analyzes the representative contributions of three or four diverse groups to American literature and culture. Covering a wide spectrum of historical periods and literary genres, the course will focus on issues of ethnic identity, assimilation, acculturation, cultural pluralism, and family and gender roles in order to heighten awareness of diversity in America. Representative literature groups may include African American, Hispanic American, Native American, Asian American, Gay and Lesbian American, disability groups and religious groups.

LIT 6A — Survey of English Literature

3 Units

54.00 hours lecture.

Degree Appropriate, CSU, UC

Prereauisite: 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

(May be taken for option of letter grade or Credit/No Credit.) 54.00 hours lecture.

Prerequisite: ENGL 1A

A chronological study of major works from the Romantic Era through the Victorian and Modern periods to contemporary texts.

LIT 10 — Survey of Shakespeare

3 Units

Degree Appropriate, CSU, UC

(May be taken for option of letter grade or Credit/No Credit.)

54.00 hours lecture. *Prerequisite: ENGL 1A*

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.

LIT 11A — World Literature

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC Prerequisite: ENGL 1A

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.

LIT 11B — World Literature

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC Prerequisite: ENGL 1A

An introductory survey course of European literature (17th to the 20th centuries) that explores the significant and representative literary works 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

54.00 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 15 — Introduction to Cinema

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC Prerequisite: ENGL 1A

Explores the broad range of human experience inherent in the study of film as art. Using a number of films drawn from various genres, examines film from historical, social, technological and aesthetic perspectives.

LIT 20 — African American Literature

3 Units

Degree Appropriate, CSU, UC

(May be taken for option of letter grade or Credit/No Credit.) 54.00 hours lecture.

Prerequisite: ENGL 1A

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.

LIT 25 — Contemporary Mexican American Literature 3 Units

Degree Appropriate, CSU, UC

(May be taken for option of letter grade or Credit/No Credit.) 54.00 hours lecture.

Prerequisite: ENGL 1A

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.

LIT 33 — Images of Women in Literature

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC

Prerequisite: ENGL 1A

Survey of selected pieces of literature, poetry, short stories and novels 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

(May be taken for option of letter grade or Credit/No Credit.) 54.00 hours lecture.

Prerequisite: ENGL 1A

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, Ellison, Sturgeon, Asimov, and Clarke. Definitions and quality standards will be evolved.

LIT 36 — Introduction to Mythology 3 Units

54.00 hours lecture.

Degree Appropriate, CSU, UC

Prerequisite: ENGL 1A

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

Degree Appropriate, CSU

(May be taken for option of letter grade or Credit/No Credit.) 54.00 hours lecture.

Prereauisite: ENGL 1A

Designed to give the student a knowledge and an appreciation of 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.

LIT 46 — The Bible As Literature: Old Testament

nent 3 Units

54.00 hours lecture.

Degree Appropriate, CSU, UC

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

54.00 hours lecture.

Degree Appropriate, CSU, UC

Prerequisite: ENGL 1A

Considers the Bible as a collection of literary texts and applies the principles of literary and historical analysis to selected books of the Old Testament and the New Testament.

MANUFACTURING TECHNOLOGY

Cluster repeatability:

Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Cluster: MFG 99. MFG 99-1. MFG 99-2

MFG 11 — Manufacturing Processes I

2 Units

(May be taken four times for credit.)

Degree Appropriate, CSU

18.00 hours lecture.

54.00 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, CSU

18.00 hours lecture.

54.00 hours lab.

Advisory: MFG 11

The study of manufacturing equipment and manufacturing processes. Theory and practice in milling operations, tooling setup, metallury, 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.)

Degree Appropriate

18.00 hours lecture.

54.00 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.

MFG 17 — 3-D CAD - Mechanical Modeling

2 Units Degree Appropriate

(May be taken four times for credit.) 18.00 hours lecture.

54.00 hours lecture

Advisory: MFG 15

Development of three dimensional mechanical models using AutoCAD. Analysis and manipulation of mechanical solid models and industrial primitives as related to their interaction with Computer Aided Machines (CAM) and Computer Integrated Manufacturing (CIM) systems. Students who repeat this course will improve skills through further instruction and practice.

MFG 19 — Parametric Solid Modeling for Manufacturing 2 Units

(May be taken four times for credit.)

Degree Appropriate | Use Maste

18.00 hours lecture.

54.00 hours lab.

Advisory: MFG 17

Development 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 25 — Advanced Parametric Solid Modeling 2 Units for Manufacturing

(May be taken four times for credit.)

Degree Appropriate

18.00 hours lecture.

54.00 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, 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

18.00 hours lecture.

54.00 hours lab.

Advisory: MFG 19

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. Students who repeat this course will improve skills through further instruction and practice.

MFG 38 — MasterCAM I

(May be taken four times for credit.)

Degree Appropriate, CSU

18.00 hours lecture.

54.00 hours lab.

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 and practice.

MFG 38B — Advanced MasterCAM

2 Units

2 Units

(May be taken four times for credit.) 18.00 hours lecture.

Degree Appropriate, CSU

54.00 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.

MFG 39 — SurfCAM I

2 Units

(May be taken four times for credit.) 18.00 hours lecture.

Degree Appropriate, CSU

54.00 hours lab.

Advisory: MFG 11, MFG 85

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 skills through further instruction and practice.

MFG 39B — SurfCAM II

2 Units

(May be taken four times for credit.)

Degree Appropriate, CSU

18.00 hours lecture.

54.00 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 machine the part. Students who repeat this course will improve skills through further instruction and practice.

MFG 58 — Blueprint Reading for Manufacturing

2 Units

(May be taken two times for credit.) 36.00 hours lecture.

Degree Appropriate

Advisory: MFG 70

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.

MFG 70 — Technical Mathematics - Manufacturing Applications

2 Units

1 Unit

(May be taken two times for credit.)

Degree Appropriate, CSU

36.00 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.

MFG 74 — Manufacturing Technology Work Experience

(May be taken for Credit/No Credit only.)
75.00 hours lab.

Degree Appropriate

Prerequisite: Compliance with Work Experience regulations as designated in the college catalog. Completion of MFG 11, 12, 58, 70, and 85.

Advisory: Current 90T-1 topics course offered by department.

Provides actual on-the-job experience in manufacturing 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.

MFG 85 — Manual CNC (Computerized Numerical Control) 2 Units Operations

(May be taken two times for credit.)

Degree Appropriate, CSU

18.00 hours lecture.

54.00 hours lab.

Theory and practice in manually developing CNC programs. Methods of transmitting data to CNC machines and physical set-up and operation of CNC equipment. Students who repeat this course will improve skills through further instruction and practice.

MFG 90T-1 — Mathematics & Blueprint Reading 3 Units for Manufacturing

54.00 hours lecture.

Non-Degree Credit

Applications of mathematical principles, including fractions, decimals, ratio/proportion, geometry and trigonometry to manufacturing problems and their solutions. Reading and interpreting part drawings, assembly drawings and sketches used in the manufacturing industry.

MFG 99 — Special Projects in Machining

.5 Unit

(May be taken four times for credit.)

Non-Degree Credit

4.50 hours lecture.

13.50 hours lab.

Provides students with the opportunity to develop skills in specific machining areas. Content of each course and the methods of study will depend on the specific machining skills selected.

MFG 99-1 — Special Projects in Machining

(May be taken four times for credit.)

Non-Degree Credit

1 Unit

9.00 hours lecture.

27.00 hours lab.

Provides students with the opportunity to develop skills in specific machining areas. Content of each course and the methods of study will depend on the specific machining skills selected.

MFG 99-2 — Special Projects in Machining

1.5 Units

(May be taken four times for credit.)

Non-Degree Credit

16.70 hours lecture.

50.00 hours lab.

Provides students with the opportunity to develop skills in specific machining areas. Content of each course and methods of study will depend on the specific machining skills selected.

MATHEMATICS

MATH 10 — Math Enhancement

0 Unit

(May be taken four times for credit.)

Pre-Collegiate

18.00 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.

MATH 50 — Pre-Algebra

3 Units

54.00 hours lecture.

Pre-Collegiate

Prerequisite: Credit in LERN 49 or qualifying score on current department placement test.

Fundamental 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 51 — Elementary Algebra

4 Units

72.00 hours lecture.

Degree Appropriate Prerequisite: MATH 50 or qualifying score on current department

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 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 51A — Elementary Algebra - First Half

54.00 hours lecture.

placement test

54.00 hours lecture.

Prerequisite: MATH 51A

of Elementary Algebra (MATH 51).

current department placement test

MATH 61 — Plane Geometry

54.00 hours lecture.

3 Units

MATH 71B — Intermediate Algebra - Second Half 54.00 hours lecture.

Degree Appropriate

3 Units

Degree Appropriate Prerequisite: MATH 50 or qualifying score on current department

Prereauisite: MATH 71A

Quadratic equations and graphs; exponents, radicals and logarithms; conic sections. Covers remaining MATH 71 topics at a slower pace. A student must complete both MATH 71A AND 71B to have taken the equivalent of MATH 71, Intermediate Algebra.

MATH 51B — Elementary Algebra - Second Half

Contains the first half of elementary algebra. Operations with signed

numbers and algebraic expressions; linear equations and inequalities;

equations; ratios, proportions, formulas, and variation; applications.

Contains the second half of Elementary Algebra. Includes: Cartesian

with radicals, solving second degree equations using methods of

completing the square and the quadratic formula. Students must

Coordinate System, slope/graphing/equations of lines, solving systems

of linear equations, algebraic operations with radicals, solving equations

complete both MATH 51A and MATH 51B to have taken the equivalent

Prerequisite: MATH 51 or MATH 51B or MATH 52 or qualifying score on

Points, lines, polygons and circles; their relationships to each other on

introduced and practiced throughout the course. Stress is placed on

accuracy of statement as a background for analytical and scientific

plane surfaces; congruence, similarity and area. Introduction to

inductive, deductive and indirect reasoning. The formal proof is

polynomial operations and factoring; rational expressions and

3 Units Degree Appropriate

3 Units

Degree Appropriate

MATH 96 — Strategies for Math Success (May be taken three times for credit.)

1 Unit Pre-Collegiate

(May be taken for Credit/No Credit only.)

18.00 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 instruction and practice.

MATH 99 — Special Projects in Mathematics

2 Units

(May be taken four times for credit.) 36.00 hours lecture.

Degree Appropriate, CSU

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 who repeat this course will improve skills through further instruction and practice.

MATH 71 — Intermediate Algebra

90.00 hours lecture.

reasoning.

5 Units 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 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 54.00 hours lecture.

3 Units

Degree Appropriate

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. Covers some MATH 71 topics at a slower pace. A student must complete both MATH 71A and 71B to have taken the equivalent of MATH 71. Intermediate Algebra.

MATH 100 — Survey of College Mathematics

3 Units Degree Appropriate, CSU, UC

(CAN MATH 2) 54.00 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 additional topics selected from numeration and mathematical systems. number theory, geometry, graph theory and mathematical modeling.

MATH 110 — Elementary Statistics

3 Units Degree Appropriate, CSU, UC

(CAN STAT 2) 54.00 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 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

54.00 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 designed to provide an enriched experience. Students may not receive credit for both MATH 110 and MATH 110H.

MATH 120 — Finite Mathematics

3 Units Degree Appropriate, CSU, UC

54.00 hours lecture.

Fall Semester

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 130 — College Algebra

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC Prerequisite: MATH 71 or MATH 71B or MATH 72 or qualifying scoreon current department placement test

A college-level course in algebra. A 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.

MATH 140 — Calculus for Business 4 Units

72.00 hours lecture. Degree Appropriate, CSU, UC Prerequisite: MATH 130 or MATH 160 or qualifying score on current department placement test

Calculus for business, social science, and non-science majors. 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.

MATH 150 — Trigonometry

3 Units Degree Appropriate, CSU 54.00 hours lecture.

Prerequisite: MATH 71 or MATH 71B or qualifying score on current department placement test AND MATH 61 or two semesters of high school geometry with "C" or better, or passing score on current geometry competency test.

Trigonometric 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.

MATH 160 — Precalculus Mathematics

72.00 hours lecture.

72.00 hours lecture.

4 Units Degree Appropriate, CSU, UC

MATH 285 — Linear Algebra and Differential Equations 5 Units (CAN MATH24) Degree Appropriate, CSU, UC

90.00 hours lecture.

Prerequisite: MATH 280

First order ordinary differential equations, including separable, linear, homogeneous of degree zero. Bernoulli and exact with applications and numerical methods. Solutions to higher order differential equations using undetermined coefficients, variation of parameters, and power series, with applications. Solutions to linear and non-linear systems of differential equations, including numerical solutions. Matrix algebra, solutions of linear systems of equations, and determinants. Vector spaces, linear independence, basis and dimension, subspace and inner product space, including the Gram-Schmidt procedure. Linear transformations, kernel and range, eigenvalues, eigenvectors, diagonalization and symmetric matrices.

MATH 180 — Calculus and Analytic Geometry

geometry, series, sequences, and vectors.

4 Units

Degree Appropriate, CSU, UC

Prerequisite: MATH 160 or qualifying score on current departmentplacement 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.

Prerequisite: MATH 150 OR (high school trigonometry, "C" or better, and a

qualifying score on current department placement test)

Prepares students for the calculus sequence. Real-valued functions,

functions. Also includes proofs, inequalities, introductory analytical

including algebraic, trigonometric, exponential, and logarithmic

MATH 181 — Calculus and Analytic Geometry 90.00 hours lecture.

5 Units Degree Appropriate, CSU, UC

MEDI 90 — Medical Terminology

3 Units

Degree Appropriate, CSU 54.00 hours lecture. Introduction to the use and meaning of the medical terminology used in various allied health fields. Relates to other allied health fields and can apply to secretarial science majors.

MEDICAL TERMINOLOGY

parametric equations; vectors in two and three space and their applications.

MATH 210 — Concepts of Elementary Mathematics 3 Units 54.00 hours lecture. Degree Appropriate, CSU

Applications of integration, techniques of integration; numerical integration;

indeterminate forms and improper integrals; infinite series; plane curves and

Prerequisite: MATH 100

Prereauisite: MATH 180

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

Degree Appropriate, CSU, UC 54.00 hours lecture.

Prereauisite: MATH 181

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

72.00 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. Double and triple integrals in various coordinate systems with applications. Vector fields, line integrals, work, independence of path in conservative fields. Green's Theorem, surface integrals, flux, divergence and curl, Stokes' Theorem, the Divergence Theorem.

MENTAL HEALTH/PSYCHIATRIC TECHNICIAN

MENT 40 — Introduction to Interviewing and Counseling 3 Units 54.00 hours lecture. Degree Appropriate

Provides a basic overview of the helping processes. Stresses application of counseling theories, helping skills, and consultation theories to allow 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 MENT 40 and PSYC

MENT 56 — Medical-Surgical Nursing for Psychiatric Technicians

9 Units

162.00 hours lecture.

Degree Appropriate

Prerequisite: Admission to the Psychiatric Technician Program Corequisite: MENT 56L

Holistic approach to assessment and intervention in the care of the medical-surgical patient. Examines physiological modes of rest and exercise, regulation, circulation, ventilation and the sensory system; medical-surgical nursing; care of the dying patient, cardiovascular problems; calculations of drug dosage and administration of oral and topical medications; study of anatomy and physiology of the human body.

MENT 56L — Clinical Experience

(May be taken for Credit/No Credit only.)

Degree Appropriate

4 Units

4 Units

1.5 Units

216.00 hours lab.

Coreauisite: 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, elimination, application of emergency procedures, circulation, ventilation, and sensory system. Application of nursing skills to medical surgical patients, including neoplasms and cardiovascular problems. Administration of medication.

MENT 58D — Advanced Medical-Surgical Nursing and Pharmacology for PT

Degree Appropriate

Prerequisite: MENT 56, MENT 56L

Corequisite: MENT 58L

72.00 hours lecture.

Examines disease processes affecting body systems, etiology, required nursing care; study of drugs, standards, administration; dose calculations.

MENT 58L — Advanced Medical-Surgical Nursing for Psychiatric Technicians Clinical

(May be taken for Credit/No Credit only.) Degree Appropriate 90.00 hours lab.

Application of nursing skills to patients with medical/surgical disorders. Administration of medications.

MENT 70 — Introduction to Psychiatric Technology 1.5 Units 27.00 hours lecture. Degree Appropriate

Prereauisite: Admission to Psychiatric Technician Program

Corequisite: MENT 70L

Role and function of the Psychiatric Technician; mental health theories of personality development, self-concept, role function, and interdependence; developmental disabilities theories of sensorimotor techniques, behavior modification techniques.

2 Units MENT 70L — Introduction to Psychiatric Technology **Clinical Technicians**

(May be taken for Credit/No Credit only.) Degree Appropriate 108.00 hours lab.

Coreauisite: MENT 70

The clinical experience introduces the student to facilities within the community which serve the mental health field including both the mentally disordered and developmentally disabled.

MENT 72 — Nursing Care of the Developmentally 7 Units **Disabled Person**

126.00 hours lecture. Degree Appropriate

Prereauisite: MENT 56, MENT 70

Corequisite: MENT 72L

Etiology of mental retardation; develops the knowledge, skills, and attitudes necessary to safely teach and train the developmentally disabled person. Techniques of behavior modification and sensory-motor training are used, as well as the teaching of self-help skills. Examines normal development from infancy to the aged.

MENT 72L — Nursing Care of the Developmentally **Disabled Person - Clinical**

(May be taken for Credit/No Credit only.) 288.00 hours lab.

Degree Appropriate

5 Units

Coreauisite: MENT 72

Application of skills needed to teach, train and provide care for the developmentally disabled person. Administration of medication.

MENT 73L — Psychiatric Nursing for Psychiatric 5 Units **Technicians Clinical**

(May be taken for Credit/No Credit only.) 288.00 hours lab.

Degree Appropriate

Corequisite: MENT 73T

Clinical instruction in the treatment of mental disabilities and substance

MENT 73T — Psychiatric Nursing for Psychiatric Technicians 6 Units 108.00 hours lecture. Degree Appropriate Coreauisite: MENT 73L

Theoretical instruction in the assessment and treatment of the mentally disabled, use of common medication, therapeutic communication, assertive language and leadership skills appropriate for the practicing Psychiatric Technician.

MENT 82 — Work Experience in Mental Health Technology 2 Units (May be taken for Credit/No Credit only.) Degree Appropriate 150.00 hours lab.

Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog, MENT 72, MENT 73T

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.

METEOROLOGY

METO 3 — Weather and the Atmospheric Environment 3 Units 54.00 hours lecture. Degree Appropriate, CSU, UC

An introduction to the atmosphere. Processes that influence weather and climate: 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.

METO 3L — Weather and Atmospheric Environment Laboratory 1 Unit Degree Appropriate, CSU, UC 54.00 hours lab. Corequisite: METO 3 (May have been taken previously)

Laboratory topics paralleling the course content of METO 3.

MICROBIOLOGY

MICR 1 — Principles of Microbiology (CAN BIOL14)

5 Units

Degree Appropriate, CSU, UC

54.00 hours lecture.

108.00 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 majors Fundamental concepts of microbiology with emphasis on bacteria. Survey of microbial classification, morphology, physiology and genetics; beneficial and pathological aspects; growth and control of microbes; viorlogy, 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 — Microbiology

4 Units

54.00 hours lecture. Degree Appropriate, CSU, UC

54.00 hours lab.

Prerequisite: CHEM 10 or CHEM 40 or one year of high school chemistry (C or better)

Fundamental concepts of microbiology; viruses, bacteria, fungi, protozoa and parasitic worms.

MUSIC

Cluster repeatability:

Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Cluster: MUS 99A, MUS 99B, MUS 99C

MUS 1 — Concert Music

1 Unit

(May be taken four times for credit.) (May be taken for Credit/No Credit only.) Degree Appropriate, CSU

18.00 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

3 Units

54.00 hours lecture. Coreauisite: MUS 5A

Degree Appropriate, CSU, UC

Study of harmony and form in Western tonal music. Explores the concept of tonality, the properties of melody, basic chord grammar and the 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 3A — Harmony 3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC

Prerequisite: MUS 2, MUS 5A Coreauisite: MUS 5B

An examination of the harmonic style of Western tonal music from the common practice period. Topics include elementary chord syntax, the principles of voice leading, simple figured bass realization, soprano harmonization, basic non-chord tones, seventh chords, basic modulation techniques, period forms and binaries. Students will compose original music in the harmonic and melodic style of Classical models.

MUS 3B — Harmony 3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC

Prerequisite: MUS 3A, MUS 5B

Corequisite: MUS 6A

Further examination of the harmonic style of Western tonal music from the common practice period, with emphasis on the contrapuntal music of the Baroque Era. Topics include secondary function chords, advanced non-chord tones, advanced figured bass realization, harmonic sequences, modified species, 18th century counterpoint and imitative contrapuntal forms. Students will write analysis papers and compose original music in the harmonic and melodic style of Baroque models.

MUS 3C — Harmony
54.00 hours lecture.

3 Units
Degree Appropriate, CSU, UC

Prerequisite: MUS 3B, MUS 6A

Corequisite: MUS 6B

Further examination of the harmonic style of Western tonal music from the common practice period, with emphasis on 18th and 19th century 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 18.00 hours lecture. Degree Appropriate, CSU, UC

18.00 hours lecture. 18.00 hours lab.

Corequisite: MUS 2

Required for music majors. Emphasizes sight singing, aural perception and dictation of rhythm, melody, intervals and simple harmonic progressions. 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 5B — Musicianship - Ear Training and Sight Singing 1 Unit

18.00 hours lecture. Degree Appropriate, CSU, UC

18.00 hours lab.

Prerequisite: MUS 2, MUS 5A

Coreauisite: MUS 3A

Provides 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.

MUS 6A — Musicianship - Advanced

36.00 hours lecture.

Degree Appropriate, CSU, UC

2 Units

2 Units

18.00 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

Degree Appropriate, CSU, UC

36.00 hours lecture. 18.00 hours lab.

Prerequisite: MUS 3B, MUS 6A

Coreauisite: 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

3 Units

54.00 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 will be employed. Recommended for prospective elementary school teachers.

MUS 9 — Introduction to Music Technology

(May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36.00 hours lecture.

36.00 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 sampling, editing, music notation and composition will be demonstrated and practiced in class. Assignments will include the creation of original music. Students who repeat this course will improve skills through further instruction and practice.

MUS 11A — Music Literature Survey

3 Units Degree Appropriate, CSU, UC

54.00 hours lecture.

Fall Semester

A survey of western music from the Medieval period through the 18th century including examples of music from several non-western cultures. Lectures are augmented by recordings and other support media pertinent to the culture/period being studied. Attending at least one live concert is required.

MUS 11B — Music Literature Survey

3 Units

Spring Semester

Degree Appropriate, CSU, UC

54.00 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 being studied. Attending at least one live concert is required.

MUS 12 — History of Jazz

3 Units

3 Units

Degree Appropriate, CSU, UC

(May be taken for option of letter grade or Credit/No Credit.) 54.00 hours lecture.

Advisory: Eligibility for ENGL 68

A survey of jazz as a significant American art form from its roots in African and Creole music to the present. Major styles, leading performers, significant compositions and recordings, and the social, economic, and cultural contexts of the music will be stressed.

MUS 13 — Introduction to Music Appreciation

54.00 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 live concert is required.

MUS 13H — Introduction to Music Appreciation - Honors 3 Units
54.00 hours lecture. Degree Appropriate, CSU, UC

Prerequisite: Acceptance into the Honors Program

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 and MUS 13H.

MUS 14A — World Music

3 Units

54.00 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 for aesthetic, social, and spiritual purposes.

MUS 14B — American Folk Music

3 Units

54.00 hours lecture.

Degree Appropriate, CSU, UC

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

(May be taken for option of letter grade or Credit/No Credit.) 54.00 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

(CAN MUS 14)

Degree Appropriate, CSU, UC

(May be taken four times for credit.)

18.00 hours lecture.

108.00 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 included. Students who repeat this course will improve skills through 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.)

18.00 hours lecture.

18.00 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. No prior musical experience is required.

MUS 17B — Intermediate Class Piano

1 Unit

(CAN MUS 24)

Degree Appropriate, CSU, UC

(May be taken two times for credit.)

18.00 hours lecture.

18.00 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 course will improve skills through further instruction and practice.

MUS 18 — Advanced Class Piano

1 Unit

(May be taken four times for credit.) Degree Appropriate, CSU, UC

18.00 hours lecture.

18.00 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. Students who repeat this course will improve skills through further instruction and practice. Recommended for music majors.

MUS 19 — Class Organ

1 Unit

(May be taken four times for credit.) Degree Appropriate, CSU, UC

18.00 hours lecture.

18.00 hours lab.

Advisory: MUS 17A and MUS 17B or equivalent

Group and individual instruction in registration, manual/pedal technique, 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 18.00 hours lecture.

18.00 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. English and American songs will be studied. Open to non-music majors and recommended for all music majors. Students who repeat this course 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, UC 18.00 hours lecture.

18.00 hours lab.

Advisorv: MUS 20A

Group and individual instruction toward mastering the basic skills required for a solid singing technique for popular, theatrical, and classical music. Studies of musicianship will concentrate on individual 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

18.00 hours lecture. 18.00 hours lab.

Advisory: MUS 20B

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 will improve skills through further instruction and practice.

MUS 22 — Conducting

1 Unit

(May be taken four times for credit.)

Degree Appropriate, CSU

18.00 hours lecture.

18.00 hours lab.

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.

MUS 23A — Elementary Class Guitar

1 Unit

(May be taken two times for credit.) 18.00 hours lecture.

Degree Appropriate, CSU, UC

18.00 hours lab.

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.

MUS 23B — Intermediate Class Guitar

1 Unit

(May be taken two times for credit.) Degree Appropriate, CSU, UC 18.00 hours lecture.

18.00 hours lab.

Advisory: MUS 23A

Techniques for reading and playing music arranged for the solo guitar. Students must furnish their own acoustic guitar. Students who repeat this course will improve skills through further instruction and practice.

MUS 24 — Advanced Class Guitar

1 Unit

(May be taken four times for credit.)

Degree Appropriate, CSU, UC

18.00 hours lecture.

18.00 hours lab.

Advisory: MUS 23B

The style, technique, and interpretation of guitar music of the 18th and 19th centuries will be studied and performed. Sight reading and ensemble playing will be emphasized. Students must furnish their own acoustic guitars. Students who repeat this course will improve skills through further instruction and practice.

MUS 25A — Jazz Improvisation

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.) 18.00 hours lecture.

18.00 hours lab.

Advisory: MUS 2 or MUS 7 and/or audition by professor

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.

MUS 25B — Jazz Improvisation

1 Unit

Degree Appropriate, CSU, UC (May be taken four times for credit.) (May be taken for option of letter grade or Credit/No Credit.) 18.00 hours lecture.

18.00 hours lab.

Advisory: MUS 2 or MUS 7 and/or audition by professor AND MUS 25A or equivalent experience

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.

MUS 27 — Chamber Winds

2 Units

(May be taken four times for credit.) Degree Appropriate, CSU, UC 108.00 hours lab.

Corequisite: Admission by audition; MUS 49

This select ensemble of wind instruments will study and perform small ensemble music by major composers. Includes brass and woodwind quintets and ensembles for families of instruments. Attendance is required at all public performances. Students who repeat this course will improve skills through further instruction and practice.

MUS 29 — Choral Workshop

1 Unit

Summer Semester Degree Appropriate, CSU, UC (May be taken four times for credit.)

54.00 hours lab.

Open to all students without an audition. Choral music of all genres with an emphasis on strengthening choral skills, including sight singing, tone, blend, balance and good vocal technique. Covers choral tone of the Renaissance to correct use of the microphone when singing pop or vocal jazz. Several quest conductors from local universities will provide clinics. Students who repeat this course will improve skills through further instruction and practice.

MUS 30 — Collegiate Chorale

1 Unit

(May be taken four times for credit.) Degree Appropriate, CSU, UC 54.00 hours lab.

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. Students who repeat this course will improve skills through further instruction and practice.

MUS 31 — Concert Choir

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.) 108.00 hours lab.

Prerequisite: Admission by audition the first week of class

A mixed choral ensemble in which students perform a variety of major choral works. Classical songs are rehearsed in class and performed for a public audience. Sight singing skills and proper vocal technique are emphasized. Voice placement auditions are held the first week of class. Attendance at all performances is required. Students who repeat this course will improve skills through further instruction and practice.

MUS 32 — Masterworks Chorale

1 Unit

(May be taken four times for credit.) Degree Appropriate, CSU, UC 54.00 hours lab.

Prerequisite: Admission by audition during the first week of class This Soprano, Alto, Tenor, Bass choir will perform major choral works ranging from the Baroque era to the 20th century. In addition to preparation and performance of quality choral literature from all genres, time will be spent on vocal development and music theory. Students who repeat this course will improve their skills through further instruction, practice, and knowledge of varied repertoire.

MUS 34 — Women's Vocal Ensemble

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.) 108.00 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.

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 Credit/No Credit.) 108.00 hours lab.

Advisory: Previous band experience

Study and performance of standard and new band literature, Experience will be given to capable student directors, soloists, arrangers and composers. Attendance is required at all public performances. Students who repeat this course will improve skills through further instruction and practice.

MUS 38 — Ensemble

1 Unit Degree Appropriate, CSU, UC (May be taken four times for credit.)

(May be taken for option of letter grade or Credit/No Credit.) 18.00 hours lecture.

18.00 hours lab.

Prerequisite: Ability to read music or admission by audition The study and performance of music written for small ensembles. Students who repeat this course will improve skills through further instruction and practice.

MUS 39 — Laboratory Band

2 Units

(May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 108.00 hours lab.

Prerequisite: Admission by audition

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 jazz skills and understanding. Students who repeat this course will improve skills through further instruction and practice.

MUS 40 — Pep Band

1 Unit

(May be taken four times for credit.) Degree Appropriate, CSU, UC 54.00 hours lab.

Prerequisite: Admission by audition

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 44 — Vocal Jazz Ensemble

3 Units

(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 162.00 hours lab.

Prerequisite: Admission by audition

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 45 — Chamber Singers

3 Units

Degree Appropriate, CSU, UC (May be taken four times for credit.) (May be taken for option of letter grade or Credit/No Credit.) 162.00 hours lab.

Prerequisite: Admission by audition

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 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.

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.) 36.00 hours lecture.

36.00 hours lecture

36.00 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

3 Units

(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 162.00 hours lab.

Prerequisite: Audition may be required

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 48 — Men's Vocal Ensemble

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.) 108.00 hours lab.

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.

MUS 49 — Wind Ensemble

3 Units

(May be taken four times for credit.) Degree Appropriate, CSU, UC 162.00 hours lab.

Prerequisite: Admission by audition

The premier classical wind and percussion ensemble at the College. Students must have previous instrumental training and demonstrate 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.

MUS 99A — Special Projects in Music (May be taken four times for credit.)

18.00 hours lecture.

1 Unit

Degree Appropriate, CSU

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.

MUS 99B — Special Projects in Music

2 Units

(May be taken four times for credit.) Degree Appropriate, CSU 36.00 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.

MUS 99C — Special Projects in Music

3 Units

(May be taken four times for credit.) 162.00 hours lab.

Degree Appropriate

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 approval 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.

NURSING

Cluster repeatability:

Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Cluster: NURS 20, NURS 21, NURS 22, NURS 23

NURS 1A — The Nursing Process I

4.75 Unit

45.00 hours lecture. Degree Appropriate, CSU

126.00 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, and ENGL 1A or equivalent

Corequisite: NURS 2

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, hygiene, safety, asepsis, medication administration, elimination, communication. The Betty Neuman Model serves as the conceptual framework.

NURS 1B — The Nursing Process II

4.75 Unit

45.00 hours lecture.

Degree Appropriate, CSU

126.00 hours lab.

Prerequisite: NURS 1A or Advanced Placement

Coreauisite: NURS 2

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

2 Units

36.00 hours lecture. Degree Appropriate, CSU
Prerequisite: Admission to Nursing Program and eligibility for MATH 51
Coreauisite: 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.

NURS 3 — Medical-Surgical Nursing: 3.5 Units Locomotion/Sensation/Integument/Oncology/Immunology

30.00 hours lecture. 99.00 hours lab. Degree Appropriate, CSU

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

27.00 hours lecture.

Degree Appropriate, CSU

81.00 hours lab.

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.

NURS 5 — Psychiatric Nursing

3 Units

27.00 hours lecture. 81.00 hours lab.

Degree Appropriate, CSU

Prerequisite: NURS 4 or Advanced Placement and PSYC 1A

Concepts 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.

NURS 6 — Pediatric Nursing

3 Units

7 Units

27.00 hours lecture.

Degree Appropriate, CSU

81.00 hours lab.

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.

NURS 7 — Medical-Surgical Nursing: Nutrition/Elimination/Surgical Asepsis

60.00 hours lecture. Degree Appropriate, CSU

198.00 hours lab.

Prereauisite: NURS 6 or Advanced Placement

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 8 — Medical-Surgical Nursing: **Circulation and Oxygenation**

5 Units

45.00 hours lecture.

Degree Appropriate, CSU

144.00 hours lab.

Prerequisite: NURS 7 or Advanced Placement

Coreauisite: 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.

NURS 9 — Leadership in Nursing

1 Unit

18.00 hours lecture.

Degree Appropriate, CSU

Prereauisite: 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/Regulation 4 Units

45.00 hours lecture.

Degree Appropriate, CSU

96.00 hours lab.

Prerequisite: NURS 8, NURS 9 or Advanced Placement

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

(May be taken for Credit/No Credit only.) Degree Appropriate, CSU

112.00 hours lab.

Prerequisite: NURS 10 or advanced placement

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.

NURS 20 — Nursing Work Experience Program

(May be taken four times for credit.)

Non-Degree Credit

1 Unit

(May be taken for Credit/No Credit only.)

75.00 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.

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.)

150.00 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.

NURS 22 — Nursing Work Experience Program 3 Units

(May be taken four times for credit.) (May be taken for Credit/No Credit only.) Non-Degree Credit

225.00 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.

NURS 23 — Nursing Work Experience Program

4 Units

Non-Degree Credit

(May be taken four times for credit.)

(May be taken for Credit/No Credit only.)

300.00 hours lab.

Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog. Current satisfactory status in the Nursing

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.

NURS 70 — Role Transition

3 Units

(May be taken for Credit/No Credit only.)

Degree Appropriate

36.00 hours lecture.

54.00 hours lab.

Prerequisite: Advanced Placement; PT (Psychiatric Technician) orLVN (Licensed Vocational Nurse); 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, and ENGL 1A or equivalent, and PSYC 1A or equivalent, and CHLD 10 or equivalent or PSYC 14 or equivalent 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 electrolyte balance/imbalance utilizing the Betty Neuman Model as the conceptual framework.

NURS 99 — Special Projects in Nursing

(May be taken four times for credit.)

Non-Degree Credit

2 Units

(May be taken for Credit/No Credit only.) 108.00 hours lab.

Prerequisite: Placement in Nursing Program

Provides 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.

NUTRITION AND FOOD

NF 10 — Nutrition for Personal Health and Wellness 3 Units 54.00 hours lecture. Degree Appropriate, CSU

Prerequisite: Eligibility for ENGL 68

Basic 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 20 — Principles of Foods With Lab

3 Units

36.00 hours lecture.

Degree Appropriate, CSU

54.00 hours lab. Introduction to basic food science principles and food preparation procedures with emphasis on ingredient functions and interaction; food preparation techniques and skills; sensory evaluation standards; food

safety and sanitation; food preparation equipment and utensils; storage standards; and nutrient retention.

NF 25 — Essentials of Nutrition

3 Units

54.00 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 25H — Essentials of Nutrition - Honors

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC Prerequisite: Acceptance into the Honors Program

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. An honors course designed to provide an enriched experience. Students may not receive credit for both NF 25 and NF 25H.

NF 28 — Cultural and Ethnic Foods

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC

Advisory: Eligibility for ENGL 68

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 30 — Food Science Technologies

3 Units

54.00 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.

NF 61 — Creative Foods

3 Units

Degree Appropriate

36.00 hours lecture. 54.00 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.

NF 62 — Meal Management

3 Units

36.00 hours lecture. Degree Appropriate, CSU

54.00 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.

NF 81 — Cooking for Your Heart and Health

1 Unit

(May be taken three times for credit.) Non-Degree Credit (May be taken for option of letter grade or Credit/No Credit.) 12.00 hours lecture.

18.00 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.

NF 82 — Vegetarian Cuisine

1 Unit

(May be taken three times for credit.) Non-Degree Credit (May be taken for option of letter grade or Credit/No Credit.) 12.00 hours lecture.

18.00 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.

OCEANOGRAPHY

OCEA 10 — Introduction to Oceanography

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC A survey course introducing 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 four-year college/university.

Field trips are required.

OCEA 10H — Introduction to Oceanography - Honors 3 Units

54.00 hours lecture.

Degree Appropriate, CSU, UC

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.

OCEA 10L — Introduction to Oceanography Laboratory 1 Unit 54.00 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

PHIL 3 — Logic in Practice

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC

Prerequisite: Eligibility for ENGL 68

The 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.

PHIL 3H — Logic in Practice - Honors

3 Units

54.00 hours lecture.

Degree Appropriate, CSU, UC

Prerequisite: Acceptance into the Honors Program

The 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 5 — Introduction to Philosophy

3 Units Degree Appropriate, CSU, UC

(CAN PHIL 2) 54.00 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

54.00 hours lecture.

Prerequisite: Acceptance into the Honors Program

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 8 — Critical Thinking

3 Units

3 Units

54.00 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.

PHIL 9 — Critical Thinking and Logical Writing

54.00 hours lecture.

Degree Appropriate, CSU, UC

Prerequisite: ENGL 1A or ENGL 1AH

The function and use of formal and informal logic, argument, critical evaluation, and language in written composition.

PHIL 12 — Ethics (CAN PHIL 4)

3 Units

Degree Appropriate, CSU, UC

54.00 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 12H — Ethics - Honors

3 Units

(CAN PHIL 4)

Degree Appropriate, CSU, UC

54.00 hours lecture.

Prerequisite: Acceptance into the Honors Program

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. An honors course designed to provide an enriched experience. Students may not receive credit for both PHIL 12 and PHIL 12H.

PHIL 15 — Major World Religions

54.00 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, Islam, Judaism, and Christianity.

PHIL 15H — Major World Religions - Honors

54.00 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 aspirations of the peoples of the world. The following religions are presented and examined both appreciatively and critically: Hinduism, Buddhism, Taoism, Confucianism, Shinto, Judaism, Christianity, Islam. An honors course designed to provide an enriched experience. Students may not receive credit for both PHIL 15 and PHIL 15H.

PHIL 20A — History of Western Philosophy

3 Units

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC Examines the major western philosophers and philosophical ideas from pre-Socratic times to the Renaissance.

PHIL 20B — History of Western Philosophy

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC Examines the major western philosophy and philosophical ideas from the Renaissance to the twentieth century.

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.)

54.00 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 2 — Laboratory Studies: Color Photography

1 Unit Non-Degree Credit

(May be taken three times for credit.)

(May be taken for Credit/No Credit only.)

54.00 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.

PHOT 4 — Digital Cameras and Composition

1 Unit Non-Degree Credit

(May be taken for option of letter grade or Credit/No Credit.) 18.00 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

36.00 hours lecture.

Degree Appropriate, CSU, UC

54.00 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 Photography

4 Units

Degree Appropriate

36.00 hours lecture. 108.00 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.

PHOT 12 — Photographic Alternatives

3 Units

36.00 hours lecture.

Degree Appropriate, CSU, UC

54.00 hours lab.

Prereauisite: 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.

PHOT 15 — History of Photography

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC Survey of the history of photography from circa 1839 to the present. An introduction to concepts of photographic representation and their impact on society.

PHOT 16 — Fashion Photography

3 Units

36.00 hours lecture.

Degree Appropriate

54.00 hours lab.

Prereauisite: 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

36.00 hours lecture. 72.00 hours lab.

Degree Appropriate

Prereauisite: 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.

PHOT 18 — Portraiture and Wedding Photography

36.00 hours lecture.

Degree Appropriate

54.00 hours lab.

Techniques and photographic procedures for taking informal, formal, environmental and group portraits. In depth study and practice in professional wedding photography.

PHOT 20 — Color Photography

3 Units

3 Units

36.00 hours lecture.

Degree Appropriate

54.00 hours lab.

Prerequisite: PHOT 10

An introduction to current methods of producing color media, color negatives, positive transparencies, and outputting color prints.

PHOT 21 — Exploring Color Photography

3 Units

36.00 hours lecture.

Degree Appropriate

54.00 hours lab.

Prerequisite: PHOT 20

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.

PHOT 28 — Photography Portfolio Development

3 Units

36.00 hours lecture.

Degree Appropriate

54.00 hours lab.

Prerequisite: Minimum 12 units of photography at Mt. San AntonioCollege or equivalent preparation

Development of a photography portfolio for job application or gallery exhibition purposes.

PHOT 30 — Commercial and Illustrative Photography 3 Units

Fall Semester

Degree Appropriate

36.00 hours lecture.

54.00 hours lab.

Prereauisite: PHOT 11, PHOT 20

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.

PHOT 99 — Special Projects in Photography

2 Units

(May be taken four times for credit.) Degree Appropriate

36.00 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. 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

Cluster repeatability:

Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Clusters:

- PE-L 2. PE-L 2-2
- PE-L 14, PE-L 14-2
- PE-L 18, PE-L 18-2

PE-L 2 — Physical Fitness 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.)

54.00 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 prctice.

PE-L 2-2 — Physical Fitness for the Physically Limited

(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36.00 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 4 — Adaptive Aquatics

1 Unit

.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.) 54.00 hours activity.

Designed to assist students with a disability or limitation to develop or improve swimming skills. Appropriate for swimmers and nonswimmers. Students who repeat this course will improve their skills through further instruction and practice.

PE-L 10 — Wheelchair Sports

1 Unit

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.) 54.00 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 course will improve skills through further instruction and practice.

PE-L 14 — Activity Programs for the Physically Limited

(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54.00 hours activity.

Designed for students with a disability or limitation who require special assistance or equipment to participate in leisure activities. Course content will vary each semester in order to meet current studentse needs. Students who repeat this course will improve their skills through further instruction and practice.

PE-L 14-2 — Activity Programs 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.) 36.00 hours activity.

Designed for students with a disability or limitation 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.

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.) 54.00 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 (May be taken four times for credit.) Degree Appropriate, CSU, UC

(May be taken for option of letter grade or Credit/No Credit.) 36.00 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.

PHYSICAL EDUCATION: AQUATICS

Cluster repeatability:

Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Clusters:

- PE-A 8A, PE-A 8A-2, PE-A 8B, PE-A 8B-2, PE-A 8C, PE-A 8C-2
- PE-A 14. PE-A 14-2
- PE-A 18, PE-A 18-2
- PE-A 20, PE-A 20-2
- PE-A 21, PE-A 21-2
- PE-A 24, PE-A 24-2

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.) 54.00 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 with an 80% or better. Students who meet all qualifications will receive the American Red Cross Lifeguard Training, C.P.R. 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

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.) 54.00 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.

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.) 36.00 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.

PE-A 8B — **Swimming - Intermediate** (May be taken four times for credit.)

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(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.)

54.00 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 further instruction and practice.

PE-A 8B-2 — Swimming - Intermediate

.5 Unit

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.) 36.00 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 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.) 54.00 hours activity.

Prerequisite: Demonstrate proficiency equivalent to Red Cross Level IV 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.

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.) 36.00 hours activity.

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.

PE-A 14 — Water Polo

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.) 54.00 hours activity.

Fundamental water polo skills including conditioning, drills, and game situations. Students who repeat this course will improve skills 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.)
36.00 hours activity.

Fundamental water polo skills including conditioning, drills, and game situations. Students who repeat this course will improve skills through further 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.) 108.00 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 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. PE-A 18 — Springboard Diving

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.) 54.00 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.

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.) 36.00 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.

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.) 54.00 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

.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.) 36.00 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 21 — Agua 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.) 54.00 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.

PE-A 21-2 — Agua 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.) 36.00 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.

PE-A 24 — Aquatic Off-Season Conditioning

1 Unit

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.) 54.00 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.

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.) 36.00 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.

PHYSICAL EDUCATION: ATHLETICS

Cluster repeatability:

Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Clusters:

- PE-X 8A, PE-X 8B
- PE-X 10A, PE-X 10B
- PE-X 99, PE-X 99-2, PE-X 99-3, PE-X 99-4, PE-X 99-6

PE-X 6 — Baseball - Men

(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 180.00 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 and practice.

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.) 90.00 hours activity.

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 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.) 90.00 hours activity.

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 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.) 90.00 hours activity.

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 10B — 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.) 90.00 hours activity.

Advisory: PE-X 10A

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 11 — Cross Country - 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.) 180.00 hours activity.

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 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.) 180.00 hours activity.

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

(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 180.00 hours activity.

Designed for Men's Intercollegiate Football team candidates and 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.

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.) 180.00 hours activity.

Designed for Men's Intercollegiate Golf Team candidates and provides 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.

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.) 180.00 hours activity.

Designed for Women's Intercollegiate Golf Team candidates and provides 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.

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.) 180.00 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.

PE-X 25 — Soccer - Women 2 Units

Degree Appropriate, CSU, UC (May be taken four times for credit.) (May be taken for option of letter grade or Credit/No Credit.) 180.00 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.

PE-X 26 — Softball - 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.) 180.00 hours activity.

Designed for Women's Softball Team candidates and provides instruction in the components of training and conditioning related to the sport of softball. Students who repeat this course will improve skills through further instruction and practice.

PE-X 28 — Swimming - 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.) 180.00 hours activity.

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.

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.) 180.00 hours activity.

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.

PE-X 32 — Tennis - 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.) 180.00 hours activity.

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.

PE-X 34 — Tennis - 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.) 180.00 hours activity.

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.

PE-X 38 — Track and Field - Men

(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 180.00 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.

PE-X 42 — Track and Field - Women

(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 180.00 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.

PE-X 44 — Volleyball - Men

(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 180.00 hours activity.

Designed for students wishing to compete and/or train in intercollegiate volleyball. Provides instruction in the components of training and conditioning related to the sport of volleyball. Students who repeat this course will improve skills through further instruction and practice.

PE-X 46 — Volleyball - Women

(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 180.00 hours activity.

Designed for students wishing to compete and/or train in intercollegiate volleyball and provides instruction in the component of training and conditioning related to the sport of volleyball. Students who repeat this course will improve skills through further instruction and practice.

PE-X 48 — Water Polo - Men

(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 180.00 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 and practice.

PE-X 49 — Water Polo - Women

(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 180.00 hours activity.

Designed for students wishing to compete and/or train in intercollegiate water polo and provides instruction in the components of training and conditioning related to the sport of water polo. Students who repeat this course will improve skills through further instruction and practice.

PE-X 50 — Wrestling - Men

2 Units

2 Units

2 Units

2 Units

2 Units

2 Units

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.) 180.00 hours activity.

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.) 180.00 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.

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.) 180.00 hours activity.

Off-season intercollegiate athletics. Designed forathletic team candidates and includes practice, conditioning and game play. Students who repeat this course will improve skills through further instruction and practice.

PE-X 99-2 — Off-Season Athletics

.5 Unit

Degree Appropriate, CSU (May be taken four times for credit.) (May be taken for option of letter grade or Credit/No Credit.) 36.00 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-X 99-3 — Off-Season Athletics

.75 Unit

(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54.00 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-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.) 72.00 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-X 99-6 — Off-Season Athletics

1.5 Units

(May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 108.00 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.

PHYSICAL EDUCATION: FITNESS

Cluster repeatability:

Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Clusters:

- P-F 2A, PE-F 2A-2, PE-F 2B, PE-F 2B-2
- PE-F 4, PE-F 4-2
- PE-F 6A, PE-F 6A-2, PE-F 6B, PE-F 6B-2, PE-F 6C, PE-F 6C-2
- PE-F 9. PE-F 9-2
- PE-F 10, PE-F 10-2
- PE-F 12, PE-F 12-2
- PE-F 17. PE-F 17-2
- PE-F 36, PE-F 36-2, PE-F 37
- PE-F 38, PE-F 38-2, PE-F 39

PE-F 2A — Body Building - 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.) 54.00 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 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.) 36.00 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 2B — Body Building - 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.) 54.00 hours activity.

Advanced fundamentals of strength development and physical conditioning. Students who repeat this course will improve skills through further instruction and practice.

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.) 36.00 hours activity.

Advanced fundamentals of strength development and physical conditioning. Students who repeat this course will improve skills through further instruction and practice.

PE-F 4 — Cardiovascular 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.) 54.00 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 4-2 — Cardiovascular 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.) 36.00 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

(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54.00 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 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.) 36.00 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 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.) 54.00 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 further instruction and practice.

PE-F 6B-2 — Physical Fitness - 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.) 36.00 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 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.) 54.00 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.

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.) 36.00 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.

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.) 54.00 hours activity.

A 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.

PE-F 9-2 — Conditioning for 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.) 36.00 hours activity.

A 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.

PE-F 10 — Weight 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.) 54.00 hours activity.

A muscular conditioning program using machines and free weights. Students who repeat this course will improve skills through further instruction and practice.

PE-F 10-2 — Weight Training

.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.) 36.00 hours activity.

A muscular conditioning program using machines and free weights. Students who repeat this course will improve skills through further instruction and practice.

PE-F 12 — Fitness and Body 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.) 54.00 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.) 36.00 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 13 — Exercise Dynamics

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.) 108.00 hours activity.

Increased fitness and body conditioning with 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 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.) 54.00 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 who repeat this course will improve skills through further instruction and practice.

PE-F 17-2 — Fitness Walking

36.00 hours activity.

(May be taken four times for credit.)

.5 Unit

Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.)

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 who repeat this course will improve skills through further instruction and practice.

PE-F 18 — Fitness 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.) 108.00 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 19 — Strength Training

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.) 108.00 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

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.) 108.00 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 25 — Core Performance and Foundation Movement 2 Units

(May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 108.00 hours activity.

Body core training and foundation movement for students interested in improving their fitness level. Students who repeat this class will improve with continued practice and instruction.

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.) 18.00 hours activity.

Baseline fitness assessment of body composition, strength, strength endurance, cardiovascular endurance and flexibility. Includes interpretation of assessment results and guidelines for a personal 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.) 54.00 hours activity.

Personal fitness assessment of body composition, strength, strength 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, UC (May be taken for option of letter grade or Credit/No Credit.) 54.00 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 34-2 — Cardiorespiratory 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.) 36.00 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 35 — Cardiorespiratory Training

2 Units

Degree Appropriate, CSU, UC (May be taken four times for credit.) (May be taken for option of letter grade or Credit/No Credit.) 108.00 hours activity.

Individualized exercise programs designed with increased duration and frequency to improve cardiorespiratory performance. Students who repeat this course will improve skills through further instruction and practice.

PE-F 36 — Circuit 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.) 54.00 hours activity.

Muscular strength and endurance exercise on circuit training equipment. Students who repeat this course will improve skills through further instruction and practice.

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.) 36.00 hours activity.

Muscular strength and endurance exercise on circuit training equipment. Students who repeat this course will improve skills through further instruction and practice.

PE-F 37 — Circuit Training

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.) 108.00 hours activity.

Muscular strength and endurance exercise on circuit training equipment with increased frequency and duration. Students who repeat this course will improve skills through further instruction and practice.

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.) 54.00 hours activity.

Group aerobic exercise to improve cardiorespiratory efficiency. 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.) 36.00 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 39 — Aerobics

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.) 108.00 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 2 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.) 108.00 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 Technology fields. Students who repeat this course will improve skills through further instruction and practice.

PE-F 51 — Agility Testing Preparation for Administration 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.)
72.00 hours activity.

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.

PE-F 52 — Fitness and Conditioning for Administration 1 Unit 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.) 72.00 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-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.) 68.00 hours lecture.

68.00 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-F 59 — Firefighter Physical Ability Test

(May be taken four times for credit.)

Non-Degree Credit (May be taken for Credit/No Credit only.)

2.00 hours lecture.

2.00 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: INDIVIDUAL

Cluster repeatability:

Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Clusters:

Clusters.

- PE-14A. PE-14A-2. PE-14B. PE-14B-2. PE-14C. PE-14C-2
- PE-18A, PE-18A-2, PE-18B, PE-18B-2, PE-18C, PE-18C-2

■ PE-125, PE-125-2

1 Unit

.1 Unit

- PE-127A, PE-127A-2, PE-127B, PE-127B-2
- PE-129, PE-129-2
- PE-I 30A, PE-I-30A-2, PE-I 30B, PE-I 30B-2
- PE-I 31A, PE-I 31A-2, PE-I 31B, PE-I 31B-2
- PE-133.PE-133-2
- PE-134, PE-134-2
- PE-135, PE-135-2
- PE-I 37A, PE-I 37A-2, PE-I 37B, PE-I 37B-2, PE-I 37C, PE-I 37C-2
- PE-I 40A, PE-I 40A-2, PE-I 40B, PE-I 40B-2, PE-I 40C, PE-I 40C-2
- PE-144, PE-144-2
- PE-148.PE-148-2
- PE-I 50A, PE-I 50A-2
- PE-I 51, PE-I 51-2
- PE-152, PE-152-2

PE-I 1 — Rock Climbing

1 Unit

(May be taken four times for credit.) Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 54.00 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-I 4A — Badminton - 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.) 54.00 hours activity.

Basic badminton fundamentals and technique. Includes care of equipment; singles and doubles strategies. 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.) 36.00 hours activity.

Basic badminton fundamentals and technique. Includes care of equipment; singles and doubles strategies. 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.) 54.00 hours activity.

Intermediate badminton fundamentals and techniques, including competitive strategies. Students who repeat this course will improve skills through further instruction and practice.

PE-I 4B-2 — Badminton - Intermediate .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.) 36.00 hours activity.

Intermediate badminton fundamentals and techniques, including competitive strategies. Students who repeat this course will improve skills through further instruction and practice.

PE-I 4C — Badminton - 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.) 54.00 hours activity.

Designed for the advanced badminton player. Includes advanced competition strategies and techniques. Students who repeat this course will receive advanced instruction to prepare for competitive situations.

PE-I 4C-2 — Badminton - Advanced

.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.) 36.00 hours activity.

Designed for the advanced badminton player. Includes advanced competition strategies and techniques. Students who repeat this course will receive advanced instruction to prepare for competitive situations.

PE-I 18A — Golf - Beginning

(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54.00 hours activity.

Basic fundamentals of golf. Emphasis on technique, strategy, and rules. Students who repeat this course will improve skills through further instruction and practice.

PE-I 18A-2 — Golf - 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.) 36.00 hours activity.

Basic fundamentals of golf. Emphasis on technique, strategy, and rules. Students who repeat this course will improve skills through further 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.) 54.00 hours activity.

Instruction and practice to individuals who have had previous golf experience and have played a regulation eighteen hole course. Classes will be held at sites both on and off the Mt. SAC campus. Golf clubs required. Students who repeat this course will improve skills through further instruction and practice.

PE-I 18B-2 — Golf - Intermediate (May be taken four times for credit.)

.5 Unit

Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.)

Instruction for the golfer with previous golf experience. Includes putting, game management, club selection, and principles of the swing. 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 18C — Golf - Advanced

36.00 hours activity.

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.) 54.00 hours activity.

Instruction and practice for the proficient golfer (Sub 15 Handicap). Emphasis on golf swing analysis. Classes will be held at sites both on and off the MT.SAC campus. Golf clubs required. Students who repeat this course will improve skills through further instruction and practice.

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.) 36.00 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.

PE-I 25 — Mixed Martial Arts

1 Unit

(May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 54.00 hours lab.

The sport of submission grappling. An integration of striking and closecombat martial arts. Students who repeat this course will improve their skills through further instruction and practice.

PE-I 25-2 — Mixed Martial Arts

.5 Unit

(May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36.00 hours activity.

The sport of submission grappling. An integration of striking and closecombat martial arts. Students who repeat this course will improve their skills through further instruction and practice.

PE-I 27A — Jeet Kune Do - Beginning

Degree Appropriate, CSU (May be taken four times for credit.) (May be taken for option of letter grade or Credit/No Credit.) 54.00 hours lab.

Fundamentals and principles of Bruce Lees martial art. Emphasis on footwork, distance, and technique for combat efficiency in self-defense. Students who repeat this course will improve proficiency as a result of continued instruction and practice.

PE-I 27A-2 — Jeet Kune Do - Beginning

.5 Unit

(May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36.00 hours activity.

Fundamentals and principles of Bruce Lee's martial art. Emphasis on footwork, distance, and technique for combat efficiency in self-defense. Students who repeat this course will improve proficiency as a result of continued instruction and practice.

PE-I 27B — Jeet Kune Do - Intermediate

1 Unit

(May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 54.00 hours activity.

Intermediate principles of Bruce Lee's martial art. Intermediate level footwork, distance, and technique (punching, kicking, and grappling) for combat efficiency. Students who repeat this course will improve proficiency as a result of continued instruction and practice.

PE-I 27B-2 — Jeet Kune Do - Intermediate

.5 Unit

(May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36.00 hours activity.

Intermediate principles of Bruce Lee's martial art. Intermediate level footwork, distance, and technique (punching, kicking, and grappling) for combat efficiency. Students who repeat this course will improve proficiency as a result of continued instruction and practice.

PE-I 28 — Racquetball

1 Unit

Degree Appropriate, CSU, UC (May be taken four times for credit.) (May be taken for option of letter grade or Credit/No Credit.) 54.00 hours activity.

Racquetball fundamentals, skills and game play. Students who repeat this course will improve skills through further instruction and practice.

PE-I 29 — Self Defense/Martial Arts

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.) 54.00 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.

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.) 36.00 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.

PE-I 30A — Filipino Martial Arts - Beginning

(May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 54.00 hours lab.

Filipino martial arts of Eskrima and Arnis. Basic weapons training for defense in armed and unarmed scenarios. Students who repeat this course will improve skills through further instruction.

PE-I 30A-2 — Filipino Martial Arts - Beginning

.5 Unit (May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36.00 hours activity.

Filipino martial arts of Eskrima and Arnis. Basic weapons training for defense in armed and unarmed scenarios. Students who repeat this course will improve skills through further instruction.

PE-I 30B — Filipino Martial Arts - Intermediate

1 Unit

1 Unit

(May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 54.00 hours activity.

The Filipino martial arts of Eskrima and Arnis. Intermediate armed, unarmed and edged weapons training. Students who repeat this course will improve skills through further instruction and practice.

PE-I 30B-2 — Filipino Martial Arts - Intermediate

.5 Unit

(May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36.00 hours activity.

The Filipino martial arts of Eskrima and Arnis. Intermediate armed, unarmed and edged weapons training. Students who repeat this course will improve skills through further instruction and practice.

PE-I 31A — Jiujitsu - 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.) 54.00 hours activity.

Fundamentals of Brazilian Jiujitsu. 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/Jiujitsu qi uniform.

PE-I 31A-2 — Jiujitsu-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.) 36.00 hours activity.

Fundamentals of Brazilian Jiujitsu. 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/Jiujitsu qi uniform.

PE-I 31B — Jiujitsu - Intermediate (May be taken four times for credit.)

54.00 hours activity.

1 Unit

Degree Appropriate, CSU

.5 Unit

1 Unit

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.) 54.00 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 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.) 36.00 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

(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54.00 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-I 37A-2 — Tai Chi Chuan - Beginning

.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.) 36.00 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-I 37B — Tai Chi Chuan - Intermediate

1 Unit

Degree Appropriate, CSU, UC (May be taken four times for credit.) (May be taken for option of letter grade or Credit/No Credit.) 54.00 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 37B-2 — Tai Chi Chuan - Intermediate

.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.) 36.00 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 31B-2 — Jiujitsu - Intermediate

provide their own Judo/Jiuiitsu ai uniform.

Degree Appropriate, CSU (May be taken four times for credit.)

(May be taken for option of letter grade or Credit/No Credit.)

training techniques, strategy, finishing holds, competition and

Intermediate Brazilian Jiujitsu. Progressions in positions, break-falls,

philosophy. Students who repeat this course will improve their skills

through further instruction and practice. Students are required to

(May be taken for option of letter grade or Credit/No Credit.) 36.00 hours activity.

Intermediate Brazilian Jiujitsu. Progressions in positions, break-falls, training techniques, strategy, finishing holds, competition and philosophy. Students who repeat this course will improve their skills through further instruction and practice. Students are required to provide their own Judo/Jiuiitsu ai uniform.

PE-I 33 — Kickboxing

(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54.00 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 further instruction and practice.

PE-I 33-2 — Kickboxing

.5 Unit

1 Unit

Degree Appropriate, CSU, UC (May be taken four times for credit.) (May be taken for option of letter grade or Credit/No Credit.) 36.00 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 further instruction and practice.

PE-I 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.) 54.00 hours activity.

Techniques for personal protection and safety with emphasis on defensive tactics for women. Students who repeat this course will improve skills through further instruction and practice.

PE-I 34-2 — Women's Self Defense

.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.) 36.00 hours activity.

Techniques for personal protection and safety with emphasis on defensive tactics for women. Students who repeat this course will improve skills through further instruction and practice.

PE-I 37C — Tai Chi Chuan - Advanced

(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54.00 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 37C-2 — Tai Chi Chuan - Advanced

.5 Unit ate, CSU, UC

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.) 36.00 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 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.) 54.00 hours activity.

Fundamentals of Alpine skiing, from the novice to the expert. Includes the purchase, care and use of equipment, conditioning methods, 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

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.) 54.00 hours activity.

Beginning tennis fundamentals and techniques. Students who repeat this course will improve skills through further instruction and practice.

PE-I 40A-2 — Tennis - Beginning

.5 Unit

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.) 36.00 hours activity.

Beginning tennis fundamentals and techniques. Students who repeat this course will improve skills through further instruction and practice.

PE-I 40B — Tennis - Intermediate

(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54.00 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.

PE-I 40B-2 — **Tennis - Intermediate** (May be taken four times for credit.)

36.00 hours activity.

.5 Unit

Degree Appropriate, CSU, UC

PE-I 50A — Yoga(May be taken four times for credit.)

(May be taken for option of letter grade or Credit/No Credit.)

54.00 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 40C — Tennis - Advanced

(May be taken for option of letter grade or Credit/No Credit.)

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.) 54.00 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.

Advanced tennis techniques and strategies for the experienced player. Students who repeat this course will improve skills through further instruction and practice.

PE-I 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.) 36.00 hours activity.

Advanced tennis techniques and strategies for the experienced player. Students who repeat this course will improve skills through further 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.) 54.00 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 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.) 36.00 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 48 — Wrestling

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.) 54.00 hours activity.

Wrestling skills, fundamentals and match competition. Students who repeat this course will improve skills through further instruction and practice.

PE-I 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.) 36.00 hours activity.

Wrestling skills, fundamentals and match competition. 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 for option of letter grade or Credit/No Credit.) 36.00 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 51 — Iyengar Yoga

1 Unit

(May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 54.00 hours activity.

Fundamentals of lyengar yoga. Basic postures, alignments, strategy, history and philosophy. Students who repeat this course will improve their skills through further instruction and practice.

PE-I 51-2 — Iyengar Yoga

.5 Unit

(May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.) 36.00 hours activity.

Fundamentals of lyengar yoga. Basic postures, alignments, strategy, history and philosophy. Students who repeat this course will improve their skills through further instruction and practice.

PE-I 52 — Individual 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.) 54.00 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-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.) 36.00 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.

PHYSICAL EDUCATION: TEAM SPORTS

Cluster repeatability:

Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Clusters:

- PE-S 2, PE-S 2-2
- PE-S 10. PE-S 10-2
- PE-S 12. PE-S 12-2
- PE-S 13, PE-S 13-2
- PE-S 16, PE-S 16-2
- PE-S 18, PE-S 18-2
- PE-S 19. PE-S 19-2
- PE-S 24A, PE-S 24A-2, PE-S 24B, PE-S 24B-2, PE-S 24C, PE-S 24C-2
- PE-S 35, PE-S 35-2

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.)

54.00 hours activity.

Basic skills, fundamentals, rules and strategies for team play in basketball. Students who repeat this course will improve skills through further instruction and practice.

PE-S 2-2 — Basketball

Degree Appropriate, CSU, UC (May be taken four times for credit.) (May be taken for option of letter grade or Credit/No Credit.)

36.00 hours activity.

Basketball skills, fundamentals and game play. Students who repeat this course will improve skills through further instruction and practice.

PE-S 10 — Soccer

1 Unit

.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.) 54.00 hours activity.

Soccer skills, fundamentals and game play. Students who repeat this course will improve skills through further instruction and practice.

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.) 36.00 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

(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 54.00 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 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.) 36.00 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 13 — Football

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.) 54.00 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 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.) 36.00 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 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.) 54.00 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 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.) 36.00 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 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.) 54.00 hours activity.

Indoor soccer skills, fundamentals and game play. 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.) 36.00 hours activity.

Indoor soccer skills, fundamentals and game play. Students who repeat this course will improve skills through further instruction and practice.

PE-S 19 — Team Sports

1 Unit

Degree Appropriate, CSU, UC (May be taken four times for credit.) (May be taken for option of letter grade or Credit/No Credit.) 54.00 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.

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.) 36.00 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.

PE-S 24A — Volleyball - 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.) 54.00 hours activity.

Basic techniques and strategies of volleyball. 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.) 36.00 hours activity.

Basic techniques and strategies of volleyball. 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.) 54.00 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.

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.) 36.00 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.

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.) 54.00 hours activity.

Designed for individuals with previous experience in advanced techniques and strategies of volleyball. Students who repeat this course will improve skills through further instruction and practice.

PE-S 24C-2 — Volleyball - Advanced

.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.) 36.00 hours activity.

Designed for individuals with previous experience in advanced 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.) 54.00 hours activity.

Fundamentals of roller hockey will be presented. Includes basic 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

(May be taken four times for credit.) Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.) 36.00 hours activity.

Fundamentals of roller hockey will be presented. Includes basic 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

54.00 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 5 — Advanced First Aid/CPR/Emergency Response

3 Units 54.00 hours lecture. Degree Appropriate, CSU

Advisory: Eliaibility for ENGL 68

Provides 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 Emergency Response and/or CPR for the Professional Rescuer.

PE 10 — Fundamentals of Sports

2 Units

36.00 hours lecture. Degree Appropriate, CSU, UC Instruction in the theory and technique of selected sports: basketball, baseball, cross country, football, golf, soccer, softball, swimming, tennis, track and field, volleyball, water polo and/or wrestling.

PE 13 — Sports Officiating

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC Introduction to rules, regulations and career opportunities of various team and individual sports.

PE 15 — Administration of Fitness Programs

36.00 hours lecture.

and physical education.

2 Units

Degree Appropriate

3 Units

54.00 hours lecture. Degree Appropriate

Theory of basic physiological concepts as they pertain to exercise training and the prescription of individual fitness programs.

PE 39 — Techniques of Fitness Testing

PE 38 — Physiology of Exercise for Fitness

2 Units

Degree Appropriate, CSU

(May be taken for option of letter grade or Credit/No Credit.) 36.00 hours lecture.

Theory and technique of fitness testing, assessment, evaluation, exercise program design. Includes related laboratory experience and practical applications.

PE 17 — Introduction to Physical Education

3 Units Degree Appropriate, CSU, UC

(May be taken for option of letter grade or Credit/No Credit.) 54.00 hours lecture.

(May be taken for option of letter grade or Credit/No Credit.)

Provides leadership training and administrative skills related to fitness

explore curriculum topics and practical skills related to careers in fitness

specialists, personal trainers and physical educators. Students will

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 19 — Introduction to Care/Prevention 3 Units of Activity/Sports - Related Injuries

54.00 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.

PE 24 — Kinesiology

2 Units

.5 Unit

Degree Appropriate

(May be taken for option of letter grade or Credit/No Credit.) 36.00 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 Degree Appropriate

(May be taken four times for credit.)

(May be taken for option of letter grade or Credit/No Credit.) 9.00 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 34 — Fitness for Living

54.00 hours lecture. Degree Appropriate, CSU, UC Survey and analysis of the components of fitness and wellness. Effects of fitness on optimal health, well-being, concepts of human movement, fitness program design, stress management, nutrition and weight maintenance.

PE 40 — Techniques of Teaching Cardiovascular Exercise 2 Units

Degree Appropriate

(May be taken for option of letter grade or Credit/No Credit.) 36.00 hours lecture.

Overview of the principles and techniques of teaching cardiovascular exercise. Includes both theory and practical instruction of cardiovascular 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.) 36.00 hours lecture.

Overview of the principles and techniques of teaching weight training. 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

54.00 hours lecture. Degree Appropriate, CSU, UC Designed 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.

PE 48 — Lifequard Training

3 Units

Degree Appropriate, CSU, UC

(May be taken for option of letter grade or Credit/No Credit.) 54.00 hours lecture.

Prerequisite: Ability to swim 500 yards without stopping American Red Cross requirements for Lifequard Training. To receive certification, students must pass written exams with a minimum of 80% and pass all practical skills tests. Students who meet all 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 Entrance Exam .5 Unit (May be taken four times for credit.) Non-Degree Credit

(May be taken for Credit/No Credit only.)

9.00 hours lecture.

9.00 hours activity.

Physical ability examination specifically designed for candidates seeking admission into the Mt. SAC Fire Academy. Candidates must be approved 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.) 150.00 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.) 75.00 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 (May be taken four times for credit.) Degree Appropriate (May be taken for Credit/No Credit only.)

160.00 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.

PHYSICAL SCIENCE

PHSC 3 — Energy Science 4 Units 54.00 hours lecture. Degree Appropriate, CSU

54.00 hours lab.

Advisory: Eligibility for MATH 51 and ENGL 68

Provides a broad technical understanding of the physical principles underlying the various forms of energy production, the role of energy in modern society, and an understanding of the wider environmental and societal impacts of different energy production technology choices. Course topics will include: fossils fuels, nuclear energy, hydro, wind, solar energy, biofuels, and energy distribution and storage. Field trips required.

PHSC 7 — Physical Science

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC 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, heat, electricity and 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

1 Unit Degree Appropriate, CSU, UC

54.00 hours lecture. Corequisite: PHSC 7

Laboratory topics will parallel the course content of Physical Science lecture.

PHYSICAL THERAPY

PHTH 81 — Physical Therapy Aide

4 Units

54.00 hours lecture. 54.00 hours lab.

Degree Appropriate

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 Preparatory Program**

8 Units

(May be taken four times for credit.)

Non-Degree Credit

144.00 hours lecture. Advisory: PAP 102 taken concurrently

Prepares students for entrance into Physician Assistant programs. Provides an overview of physician assistant fundamentals, ethics, financial aid, and interviewing techniques. Overviews physician assistant curriculum in family practice, pediatrics, orthopedics and various other topics presented in physician assistant programs. Analyzes stress coping mechanisms and time management for physician assistant students.

PAP 102 — Service Learning/Seminar for Physician Assistant Preparatory Program

6 Units

(May be taken four times for credit.) Degree Appropriate, CSU (May be taken for Credit/No Credit only.)

36.00 hours lecture.

216.00 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 1 — Physics

4 Units

54.00 hours lecture. Degree Appropriate, CSU, UC 54.00 hours lab.

Prerequisite: MATH 51 or MATH 51B or equivalent high school courses with a grade of "C" or better

Discovery 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 Physics

4 Units

(CAN PHYS 2)

PHYS 2AG + 2BG = CAN PHYS SEO A

54.00 hours lecture.

54.00 hours lab.

Prerequisite: High school trigonometry (C or better) or MATH 150 The basic principles of physics. Includes theory, applications, laboratory, and problem solving in mechanics, heat, fluids, and wave motion.

PHYS 2BG — General Physics

4 Units

Spring Semester 54.00 hours lecture. Degree Appropriate, CSU, UC

Degree Appropriate, CSU, UC

54.00 hours lab.

Prereauisite: PHYS 2AG or eauivalent

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 computers to analyze data and simulate electric circuits.

PHYS 4A — Engineering Physics

5 Units

72.00 hours lecture. Degree Appropriate, CSU, UC

54.00 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, momentum, work, energy, oscillations, gravitation, properties of solids, and waves. Includes laboratory experience, with significant use of computers for data acquisition and analysis.

PHYS 4B — Engineering Physics

5 Units

72.00 hours lecture. Degree Appropriate, CSU, UC

54.00 hours lab.

Prerequisite: PHYS 4A

Corequisite: MATH 280 (May have been taken previously)
Calculus-based course covering 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.

PHYS 4C — Engineering Physics

5 Units

72.00 hours lecture. Degree Appropriate, CSU, UC

54.00 hours lab. *Prerequisite: PHYS 4B*

Continuation of Physics 4A and 4B. Calculus-based course covering fluids, sound, electromagnetic waves, relativity, and modern physics.

PHYS 99 — Special Projects in Physics

2 Units

(May be taken four times for credit.) 36.00 hours lecture.

Degree Appropriate, CSU

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 that profiencies are enhanced.

POLITICAL SCIENCE

POLI 1 — Political Science

3 Units

(CAN GOVT 2) Degree Appropriate, CSU, UC

54.00 hours lecture.

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.

POLI 1H — Political Science - Honors

(CAN GOVT 2)

Degree Appropriate, CSU, UC

54.00 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.

POLI 2 — Political Science

3 Units

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC

Prerequisite: POLI 1 or POLI 1H Advisory: Eligibility for ENGL 1A

Comparative study of constitutional principles, governmental institutions, political processes, and ideologies in selected countries.

POLI 5 — Political Science Theory

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC

Prerequisite: POLI 1 or POLI 1H Advisory: Eligibility for ENGL 1A

Emphasizes political science concepts and theories, institutions, political change, and dynamics. Designed to prepare students majoring in political science for further study in the discipline by adequate background preparation in the overall study of politics.

POLI 9 — Introduction to International Relations 3 Units

54.00 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.

POLI 25 — Politics of the Mexican American

3 Units

54.00 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). 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.

POLI 30 — California State and Local Government

3 Units

54.00 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.

POLI 35 — African American Politics

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC

Advisory: Eligibility for ENGL 68

Examines the methods and strategies employed by African-Americans in their quest to gain equal access and participation in American institutions. 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.

PSYCHOLOGY

PSYC 1A — Introduction to Psychology

3 Units

54.00 hours lecture.

Degree Appropriate, CSU, UC

Degree Appropriate, CSU, UC

Prerequisite: Eligibility for ENGL 68

Introduces students to the basic principles underlying human behavior and cognition. Research methods related to psychology are presented.

PSYC 1AH — Introduction to Psychology - Honors 3 Units 54.00 hours lecture. Degree Appropriate, CSU, UC

Prereauisite: Acceptance into the Honors Program

Introduce students to the basic principles underlying human behavior and cognition. Research methods related to psychology are presented. An honors course designed to provide an enriched experience. Students may not receive credit for both PSYC 1A and PSYC 1AH.

PSYC 1B — Biological Psychology

3 Units

(CAN PSY 10) 54.00 hours lecture.

Prerequisite: PSYC 1A or PSYC 1AH

Advisory: Eliaibility for ENGL 1A

Biological 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.

PSYC 3 — Introduction to Research Methods in Psychology 4 Units (CAN PSY 8) Degree Appropriate, CSU, UC

54.00 hours lecture.

54.00 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 (APA) publication style taught and used with lab experience. Includes systematic observation, survey development, correlational studies, and design, execution and analysis of experiments.

PSYC 5 — Psychology of Reasoning and Problem Solving 3 Units

54.00 hours lecture. Degree Appropriate, CSU 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 and reasoning.

PSYC 10 — Statistics for the Behavioral Sciences 4 Units

(CAN PSY 6) Degree Appropriate, CSU, UC

54.00 hours lecture.

54.00 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 are interpreted through lab experience.

PSYC 14 — Developmental Psychology

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC

Advisory: Eligibility for ENGL 1A

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

54.00 hours lecture. Degree Appropriate, CSU

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.

PSYC 19 — Abnormal Psychology

3 Units

54.00 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.

PSYC 25 — The Psychology of Women

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC Advisory: PSYC 1A and ENGL 1A taken prior or concurrently
A socio-cultural analysis of the role of gender in the experience of women. Students will examine psychological, sociological and biological

women. Students will examine psychological, sociological and biological factors and current scholarly research relating to women's gender identity, development, socialization, motivation, mental health, and relationships.

PSYC 26 — Psychology of Sexuality

3 Units

Degree Appropriate, CSU, UC

Prerequisite: Eligibility for ENGL 68

54.00 hours lecture.

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.

PSYC 33 — Psychology for Effective Living

3 Units

54.00 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 54.00 hours lecture.

Provides a basic overview of the helping processes. Stresses application of counseling theories, helping skills, and consultation theories to allow 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.

PSYC 50 — Psychology of Human Relations

3 Units

54.00 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, 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

2 Units

(May be taken four times for credit.) 36.00 hours lecture.

Degree Appropriate, CSU

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.

RADIO-TELEVISION

Cluster repeatability:

Credit students are limited to enroll up to 2 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Cluster: R-TC 100A, R-TV 100B, R-TV 100C

Cluster repeatability:

Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Cluster: R-TV 97C, R-TV 97D

R-TV 01 — Introduction to Broadcasting

3 Units

54.00 hours lecture.

Degree Appropriate, CSU

Prerequisite: Eligibility for ENGL 68

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

54.00 hours lecture. Degree Appropriate, CSU Corequisite: R-TV 01 and R-TV 11A (May have been taken previously)
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 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 54.00 hours lecture. Non-Degree Credit

Corequisite: R-TV 01 and R-TV 11A (May have been taken previously)
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 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.

R-TV 03 — Sportscasting and Reporting

1.5 Units

(May be taken two times for credit.)

Degree Appropriate

27.00 hours lecture.

Corequisite: R-TV 01 and R-TV 11A (May have been taken previously)
Covers in-studio sportscasting, interviewing, field reporting and play-byplay 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.

R-TV 04 — Broadcast News Field Reporting

3 Units

(May be taken two times for credit.) 54.00 hours lecture.

Degree Appropriate

Corequisite: R-TV 01, R-TV 05, and R-TV 11A (May have been taken

Students will learn how to research and cover various news events including working with police and other emergency personnel, interviewing techniques and story developments. Emphasis will be placed on 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

3 Units

(May be taken two times for credit.) Degree Appropriate 54.00 hours lecture.

Corequisite: R-TV 01 (May have been taken previously) 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.

R-TV 06 — Broadcast Traffic Reporting

1.5 Units

Degree Appropriate

27.00 hours lecture. Corequisite: R-TV 01 (May have been taken previously)

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.

R-TV 07 — Commercial Voice-Overs

3 Units

54.00 hours lecture. Advisory: R-TV 01

Degree Appropriate

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 voice-over contracts.

R-TV 08 — KSAK Radio Studio Operations

2 Units

Degree Appropriate, CSU

R-TV 15 — Broadcast Business Practices 54.00 hours lecture.

Corequisite: R-TV 01 (May have been taken previously)

3 Units Degree Appropriate

(May be taken two times for credit.)

(May be taken for Credit/No Credit only.)

36.00 hours lecture.

Corequisite: R-TV 01 (May have been taken previously)

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 of the components of a professional radio station. Students who repeat this course will improve skills through further instruction and practice.

R-TV 09 — Broadcast Sales and Promotion

3 Units

54.00 hours lecture. Degree Appropriate

Corequisite: R-TV 01 (May have been taken previously)

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 54.00 hours lecture.

3 Units Degree Appropriate

Corequisite: R-TV 01 (May have been taken previously)

An overview of the various techniques of programming a radio station, including various formats of music, news, talk and sports. Students will also look at the role of management at a station including budgeting, unions, ratings and FCC responsibilities.

R-TV 11A — Beginning Radio Production

3 Units

36.00 hours lecture.

Degree Appropriate, CSU

54.00 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

54.00 hours lecture. Prereauisite: R-TV 11A Degree Appropriate, CSU

Build upon the basic understanding of linear and non-linear 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

54.00 hours lecture.

Degree Appropriate

Advisory: R-TV 01

Covers the creation and production of radio and television commercials. Includes using demographic research to target specific audiences, truth in advertising, slogan and campaign development, character creation, commercial formats, and the use of visual and audio appeals.

responsibilities to their audiences are also discussed. R-TV 16 — Broadcast Career Preparation

3 Units

(May be taken two times for credit.)

Degree Appropriate

54.00 hours lecture.

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

A basic overview of the radio and television industry as a business for profit. Basic techniques are discussed and examined in negotiating with

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'

have been taken previously)

Students taking this class will prepare their audio and/or video demo tapes and resumes 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 will improve skills through further instruction and practice.

R-TV 17 — Internet Radio and Podcasting

3 Units

54.00 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

3 Units

3 Units

54.00 hours lecture.

Degree Appropriate, CSU

Advisorv: R-TV 01 Characterization, visualization, structure and form in various types of writing for television and motion picture production.

R-TV 19A — Beginning Television Production

Degree Appropriate, CSU

(May be taken for option of letter grade or Credit/No Credit.) 36.00 hours lecture.

54.00 hours lab.

Corequisite: R-TV 01 (May have been taken previously)

Basic video production using studio, remote multicamera, and film-style techniques.

R-TV 19B — Advanced Television Production

Degree Appropriate, CSU

(May be taken for option of letter grade or Credit/No Credit.) 36.00 hours lecture.

54.00 hours lab.

Prerequisite: R-TV 19A

Advanced video production techniques emphasizing film-style aesthetics and production.

R-TV 20 — Television News Production

(May be taken two times for credit.)

Degree Appropriate

3 Units

54.00 hours lecture. 18.00 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

54.00 hours lecture.

36.00 hours lab.

Prereauisite: 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 improve skills through further instruction and practice.

R-TV 22 — Editing for Film and Television

3 Units

54.00 hours lecture.

Degree Appropriate

Aesthetics and use of non-linear editing software for film and television.

R-TV 26 — Current Issues in Entertainment Law

3 Units

Spring Semester Degree Appropriate

54.00 hours lecture.

Advisory: R-TV 01 or BUSL 30

Overview of the major legal and FCC regulatory issues facing broadcasting, cable and developing media. Also covers the growing importance of intellectual property law as it applies to digital media and the Internet.

R-TV 27 — Radio Drama

3 Units

Degree Appropriate Spring Semester (May be taken two times for credit.)

54.00 hours lecture.

Prereauisite: R-TV 07

The practical and artistic skills needed for the performance of radio drama such as voicing, directing, writing and sound design combined with broadcasting history and communication theory. Students who repeat this course will improve skills through further instruction and practice.

R-TV 30 — RTV30 Introduction to Careers in Entertainment 2 Units 32.00 hours lecture. Non-Degree Credit

An overview of broadcasting as a potential career. Examines the skills and training needed to work in radio, television and film in such areas as D-J, news anchor/reporter, sports reporter, commercial voice-over artist, production director, writer, producer and director.

R-TV 95C — Radio Station Activities

3 Units

Degree Appropriate

(May be taken four times for credit.)

162.00 hours lab.

Spring Semester

Prerequisite: R-TV 01, R-TV 02, and R-TV 11A

Coreauisite: R-TV 01 and R-TV 02 (May have been taken previously) Regular and continuing experience in the operation of the college radio station, KSAK. Students may select roles in the radio operation involving onair announcing, production, programming and news. Students who repeat this course will improve skills through further instruction and practice.

R-TV 97A — Radio/Entertainment Industry Seminar

1 Unit

1 Unit

Degree Appropriate

Degree Appropriate

18.00 hours lecture.

(May be taken four times for credit.)

Prerequisite: R-TV 01 and any other three R-TV units Coreauisite: 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

(May be taken four times for credit.) 75.00 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.) 75.00 hours lab.

Degree Appropriate

Prereauisite: 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.

R-TV 97D — KSAK Radio/Internet Radio Internship

2 Units

(May be taken four times for credit.)

Degree Appropriate

150.00 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.

R-TV 98A — Television and Film/Entertainment Industry Seminar 1 Unit (May be taken two times for credit.) Degree Appropriate

18.00 hours lecture.

Prerequisite: R-TV 01 and R-TV 19A

Coreauisite: R-TV 98B

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.

R-TV 98B — Television and Film/Entertainment Industry Internship

Degree Appropriate

1 Unit

(May be taken two times for credit.) 75.00 hours lab.

Prereauisite: R-TV 01 and R-TV 19A

Corequisite: R-TV 98A

Provides 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 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

2 Units

(May be taken four times for credit.) 36.00 hours lecture.

Degree Appropriate

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 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 100A — Work Experience in Film and TV

1 Unit

Degree Appropriate (May be taken two times for credit.) (May be taken for option of letter grade or Credit/No Credit.)

75.00 hours lab.

Prerequisite: Completion of 12 Television or Film course units or the eauivalent.

Provides students with on-the-job experience in the film or TV industry, related to classroom instruction, at an approved work site. A minimum of 60 unpaid or 75 paid hours of supervised work is required for each unit of credit. Students who repeat this course will improve skills through further experience.

R-TV 100B — Work Experience in Film and TV

2 Units

(May be taken two times for credit.) Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 150.00 hours lab.

Prerequisite: Completion of 12 television or film course units or the equivalent.

Provides students with on-the-job experience in the film or TV industry, related to classroom instruction, at an approved work site. A minimum of 60 unpaid or 75 paid hours of supervised instruction work is required for each unit of credit. Students who repeat the course will improve skills through further experience.

R-TV 100C — Work Experience in Film and TV

3 Units

(May be taken two times for credit.) Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 225.00 hours lab.

Prerequisite: Completion of 12 Television or Film course units or the eauivalent.

Provides students with on-the-job experience in the film or TV industry, related to classroom instruction, at an approved work site. A minimum of 60 unpaid or 75 paid hours of supervised work is required for each unit of credit. Students who repeat the course will improve skills through further experience.

RADIOLOGIC TECHNOLOGY

RAD 30 — Radiographic Pathology

1.5 Units

Degree Appropriate

Fall Semester 24.00 hours lecture.

Coreauisite: RAD 63

Advisory: RAD 54

Concepts of disease and pathological processes demonstrated in diagnostic radiography; etiology; diagnosis, and prognosis of systemic disease processes.

RAD 31 — Fluoroscopy

Degree Appropriate

Spring Semester 36.00 hours lecture. Coreauisite: RAD 64

Advisory: RAD 55B

Components and characteristics of fluoroscopic systems including regulatory requirements for operation. Includes quality control and quality assurance systems relative to radiology.

RAD 32 — Digital Imaging in Radiology

2 Units

2 Units

Winter Semester Degree Appropriate

36.00 hours lecture.

Imparts an understanding of the components, principles and operation of digital imaging systems found in diagnostic radiology. Factors that impact image acquisition, display, archiving and retrieval discussed. Guidelines for selecting exposure factors and evaluating images within a digital system assist students to bridge between film-based and digital imaging systems. Principles of digital system quality assurance and maintenance presented.

RAD 50 — Radiologic Technology

3 Units

Summer Semester Degree Appropriate, CSU 54.00 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.

RAD 52A — Techniques of Radiologic Technology

4.5 Units

Fall Semester Degree Appropriate, CSU

(May be taken for Credit/No Credit only.)

236.00 hours lab. Prereauisite: ANAT 10A

Corequisite: RAD 61A

Practical application of radiographic theories and principles in a hospital setting under direct supervision of clinical personnel and college instructors. Emphasis on chest, upper and lower limbs, from digits to shoulder, from toes to knee, abdomen, and kidney, ureters, and bladder(KUB).

RAD 52B — Techniques of Radiologic Technology 2.5 Units

Winter Semester

Degree Appropriate, CSU

(May be taken for Credit/No Credit only.)

140.00 hours lab. Prerequisite: RAD 52A

Continued application of radiographic theories and principles in a hospital setting under direct supervision of clinical personnel and college instructor. Emphasis on upper and lower limbs.

RAD 53 — Techniques of Radiologic Technology

5 Units

Degree Appropriate, CSU

Spring Semester (May be taken for Credit/No Credit only.)

256.00 hours lab.

Prerequisite: RAD 52B Coreauisite: 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.

RAD 54 — Techniques of Radiologic Technology

3 Units

7 Units

Degree Appropriate, CSU

(May be taken for Credit/No Credit only.)

150.00 hours lab.

Summer Semester

Prereauisite: 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 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.)

360.00 hours lab.

Coreauisite: 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 55B — Techniques of Radiologic Technology 2.5 Units Winter Semester Degree Appropriate, CSU

(May be taken for Credit/No Credit only.)

140.00 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, retrograde and other advanced procedures.

RAD 56 — Techniques of Radiologic Technology Spring Semester Degree Appropriate, CSU

(May be taken for Credit/No Credit only.) 380.00 hours lab.

Coreauisite: RAD 64

Practical experience in an affiliated hospital under guidance of clinical personnel and college instructors. Emphasis on basic vascular procedures (angiograms), mammograms, tube placement, myelograms, arthrograms, and hysterosalpingograms.

RAD 57 — Techniques of Radiologic Technology

Summer Semester Degree Appropriate, CSU

(May be taken for Credit/No Credit only.)

232.00 hours lab. Prerequisite: RAD 64

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 61A — Theory of Radiologic Technology

4 Units Fall Semester Degree Appropriate, CSU

72.00 hours lecture.

Prerequisite: RAD 50, MEDI 90

Corequisite: RAD 52A, RAD 61B, RAD 61C

Concepts of radiation, fundamentals of physics, the atom,

electromagnetic radiation, electricity and magnetism, electromagnetism, the X-ray machine and fluoroscopic equipment and procedures.

RAD 61B — Radiographic Positioning

3 Units

4 Units

Degree Appropriate, CSU Fall Semester

54.00 hours lecture. Coreauisite: 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.

RAD 61C — Radiologic Technology Seminar

1 Unit

Degree Appropriate, CSU Fall Semester

18.00 hours lecture.

18.00 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.

RAD 62A — Theory of Radiologic Technology

Degree Appropriate, CSU Spring Semester

72.00 hours lecture.

Prerequisite: ANAT 10A, RAD 61A

Corequisite: RAD 53, RAD 62B, RAD 62C

Areas 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.

RAD 62B — Radiographic Positioning

3 Units

4 Units

Degree Appropriate, CSU Spring Semester

54.00 hours lecture. Corequisite: RAD 62A

Fundamentals of radiographic positioning of the abdomen, digestive and urinary systems, thorax, vertebral column, general cranial, facial and introduction to temporal bone radiography (mastoid and TMJ), to include radiologic anatomy, terminology, radiation protection, pediatrics and ethics.

RAD 62C — Radiologic Technology Seminar

1 Unit

Degree Appropriate, CSU Spring Semester

18.00 hours lecture. 18.00 hours lab.

Corequisite: RAD 62A

Advanced analysis of the technical performance of radiographic examination of the vertebral column, bony thorax, digestive system, urinary system, abdomen and general cranial radiography.

RAD 63 — Theory of Radiologic Technology

4 Units

72.00 hours lecture. Degree Appropriate, CSU

Prerequisite: RAD 54

Corequisite: RAD 30, RAD 55

Special radiographic studies, contrast media usage and radiographic pathology. Includes principles of radiation protection and radiobiology.

RAD 64 — Theory of Radiologic Technology

4 Units

72.00 hours lecture. Degree Appropriate, CSU

Prerequisite: RAD 63

Coreauisite: RAD 31, RAD 56

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

24.00 hours lecture. Degree Appropriate, CSU

24.00 hours lab.

Coreauisite: 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 65 — Speed Reading: Methods and Applications 1 Unit 18.00 hours lecture. Degree Appropriate, CSU

Designed to increase reading speed, while maintaining comprehension of college-level material. Improve concentration and recall. Develop flexibility in reading rate.

READ 70 — Improving Reading Comprehension

(May be taken two times for credit.)

(May be taken for Credit/No Credit only.)

54.00 hours lecture.

24.00 hours lab.

Prerequisite: Satisfactory score on appropriate placement test 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

3 Units

(May be taken two times for credit.)

Pre-Collegiate

(May be taken for Credit/No Credit only.)

54.00 hours lecture.

24.00 hours lab.

Prerequisite: READ 70 or satisfactory score on reading placement test 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.

READ 90 — Preparing for College Reading

3 Units

(May be taken two times for credit.) Degree Appropriate (May be taken for option of letter grade or Credit/No Credit.) 54.00 hours lecture.

Prerequisite: READ 80 or satisfactory score on reading placementtest Prepares students for college textbook reading. Emphasizes understanding vocabulary and college level text analysis and comprehension. Students who repeat this course will improve skills through further instruction and practice.

READ 100 — Analysis and Critical Reading

3 Units

54.00 hours lecture.

Degree Appropriate, CSU Prerequisite: READ 90 or satisfactory score on reading placement test 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. READ 110 — Reading Tutoring for Elementary Students 3 Units Through Service Learning

36.00 hours lecture. Degree Appropriate 54.00 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 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

36.00 hours lecture.

3 Units

Pre-Collegiate

Prerequisite: ANAT 10A, ANAT 10B, CHEM 10 or one year of General High School Chemistry, MATH 51, MEDI 90

Corequisite: RESD 51A, RESD 52

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

4 Units

Degree Appropriate, CSU

54.00 hours lecture. 54.00 hours lab.

Fall Semester

Corequisite: RESD 50, RESD 52

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 51B — Respiratory Therapy Science

4 Units

3 Units

Spring Semester

Degree Appropriate, CSU

54.00 hours lecture. 54.00 hours lab.

Prerequisite: RESD 50 and RESD 51A Coreauisite: RESD 53 and RESD 60

Basic principles of respiratory therapy equipment will be presented. Emphasis is placed on the methods of administration of therapy and the application of specialized equipment in the acute care setting and the application of mechanical ventilation in the clinical setting.

RESD 52 — Pulmonary Anatomy and Physiology

Fall Semester Degree Appropriate, CSU

54.00 hours lecture.

Corequisite: RESD 51A, RESD 50

Anatomy and physiology of the cardiopulmonary, neurological, and renal systems emphasizing clinical application of physiological concepts.

RESD 53 — Cardiopulmonary Pathophysiology 3 Units

Spring Semester

Degree Appropriate, CSU

54.00 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.

RESD 55 — Adult Respiratory Intensive Care

3 Units

Degree Appropriate, CSU

54.00 hours lecture.

Fall Semester

Coreauisite: 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.

RESD 56A — Techniques of Respiratory Therapy

Summer Semester

Degree Appropriate, CSU

2.5 Units

5 Units

(May be taken for Credit/No Credit only.)

144.00 hours lab. Prerequisite: RESD 51B

Coreauisite: 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.

RESD 56A-1 — Techniques of Respiratory Therapy

Summer Semester

Degree Appropriate, CSU (May be taken for Credit/No Credit only.)

288.00 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.)

384.00 hours lab.

Prerequisite: RESD 56A Coreauisite: 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 and diagnostic procedures performed in the 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

Winter Semester

Degree Appropriate, CSU

2.5 Units

(May be taken for Credit/No Credit only.)

144.00 hours lab.

Prerequisite: RESD 55

Clinical practice in the hospital setting. Continued practice of intensive care and mechanical ventilator procedures in the treatment of adult and pediatric patients.

RESD 56D — Techniques of Respiratory Therapy

6 Units

Degree Appropriate, CSU

Spring Semester

(May be taken for Credit/No Credit only.)

384.00 hours lab. Prerequisite: RESD 56C Coreauisite: RESD 59, RESD 61

Clinical practice in the hospital setting. Application of therapeutic modalities and diagnostic procedures performed in the management and treatment of adult and pediatric intensive care patients. A six-week rotation is done in the neonatal intensive care unit. The student is expected to perform basic therapeutic modalities mastered in RESD 51A and RESD 51B and apply concepts learned in the first four semesters of the Respiratory Therapy Program.

RESD 57 — Special Procedures for Respiratory Care

3 Units Degree Appropriate, CSU

Summer Semester 54.00 hours lecture.

Corequisite: RESD 56A-1

Basic application and skills development in respiratory pharmacology. bronchoscopy, blood drawing and analysis, chest drainage, NIPPV, and mechanical ventilation.

RESD 57A — Special Procedures for Respiratory Care 1.5 Units

Summer Semester 27.00 hours lecture. Degree Appropriate, CSU

Prerequisite: RESD 50

Corequisite: RESD 56A

Topics in the basic application of and skills development in bronchoscopy, blood drawing and analysis, chest drainage, microbiology for respiratory care, IPPB, and blood gas data analysis.

RESD 57B — Special Procedures for Respiratory Care 1.5 Units Winter Semester Degree Appropriate, CSU

27.00 hours lecture.

Prerequisite: RESD 51B

Coreauisite: RESD 56A

Basic application and skills development in respiratory pharmacology, bronchoscopy, and blood drawing and analysis.

RESD 58 — Neonatal Intensive Care

3 Units Degree Appropriate, CSU

54.00 hours lecture.

Fall Semester

Coreauisite: RESD 56B-1, RESD 55

Emphasizes 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.

RESD 59 — Respiratory Therapeutic Modalities

3 Units Degree Appropriate, CSU

Spring Semester 54.00 hours lecture.

Corequisite: RESD 56C-1, RESD 61

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

Spring Semester Degree Appropriate, CSU

36.00 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.

RESD 61 — Current Issues in Respiratory Care

3 Units

2 Units

Spring Semester

Degree Appropriate, CSU

54.00 hours lecture.

Corequisite: RESD 56C-1, RESD 59

Explores recently developed health care techniques and strategies for diagnostics, assessment, and therapeutics and their impact on respiratory therapists.

SERVICE LEARNING

SL 1 — Service Learning/Seminar for Health Occupations 6 Units (May be taken four times for credit.) Degree Appropriate, CSU 36.00 hours lecture.

216.00 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 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.) 54.00 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 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.

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.) 18.00 hours lecture.

108.00 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

(May be taken four times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.)

9.00 hours lecture. 27.00 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

(May be taken four times for credit.) Degree Appropriate, CSU

(May be taken for Credit/No Credit only.)

36.00 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.

SIGN LANGUAGE, INTERPRETING

SIGN 99 — Special Projects in Sign Language/Interpreting 2 Units (May be taken three times for credit.) Degree Appropriate

36.00 hours lecture.

Prereauisite: SIGN 81 or eauivalent sianina 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.

SIGN 101 — American Sign Language 1

4 Units

72.00 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 102 — American Sign Language 2

4 Units

72.00 hours lecture. Degree Appropriate, CSU, UC Prerequisite: SIGN 80 or SIGN 101 or equivalent fluency Further study of fundamentals of American Sign Language focusing on comprehension skills, grammatical structures and practice in the expressive aspects of the language, as well as exposure to Deaf culture.

SIGN 103 — American Sign Language 3

4 Units

72.00 hours lecture. Degree Appropriate, CSU, UC Prerequisite: SIGN 81 or SIGN 102 or equivalent fluency Further 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 104 — American Sign Language 4

4 Units

72.00 hours lecture.

Degree Appropriate, CSU, UC Prerequisite: SIGN 82A or SIGN 103 or equivalent fluency

Emphasis on expressive/conversational skills in American Sign Language along with continued focus on grammatical and cultural features.

SIGN 105 — American Sign Language 5

(May be taken two times for credit.)

4 Units Degree Appropriate

72.00 hours lecture.

1 Unit

1 Unit

Prerequisite: SIGN 82B or SIGN 104

Advanced American Sign Language communication skills with emphasis on signing descriptive narratives and strengthening conversational skills. Target language practice includes holding discussions and making decisions. Further exposure to Deaf cultural components. Students who repeat this course will improve skills through further instruction and practice.

SIGN 108 — Fingerspelling

2 Units

Degree Appropriate

(May be taken three times for credit.) (May be taken for Credit/No Credit only.)

36.00 hours lecture.

Prereauisite: SIGN 81 or SIGN 102

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 201 — Deaf Perspectives

3 Units

54.00 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

Degree Appropriate, CSU, UC 54.00 hours lecture. American Deaf cultural norms, values, mores and in stitutions.

SIGN 210 — American Sign Language Structure

54.00 hours lecture. Degree Appropriate, CSU, UC

Prereauisite: SIGN 103

Linguistic structure of American Sign Language, including phonology, morphology and syntax. Sociolinguistic issues will also be discussed.

SIGN 220 — Translation: American Sign Language/English 3 Units (May be taken three times for credit.) Degree Appropriate, CSU

54.00 hours lecture. Prereauisite: SIGN 104 Corequisite: SIGN 210

American Sign Language and English translation by comparing texts in both languages. Students who repeat this course will improve skills through further instruction and practice.

SIGN 223 — Principles of Interpreting

54.00 hours lecture. Degree Appropriate

Prerequisite: SIGN 102, Eligibility for English 1A

Covers various aspects of interpreting theory and process including the history of sign language interpreting. Examines the interpreter's role and ethical standards.

SIGN 225 — Ethical Decision Making for Interpreters

36.00 hours lecture. Degree Appropriate

Prerequisite: SIGN 223

Development of ethical decision-making skills through the analytical construct of the Demand/Control Schema for interpreting work. Topics include professional work effectiveness and professional wellness.

SIGN 227 — Cognitive Processing for Interpreters 4 Units

(May be taken three times for credit.) Degree Appropriate

(May be taken for option of letter grade or Credit/No Credit.)

54.00 hours lecture.

54.00 hours lab.

Prerequisite: SIGN 104, SIGN 223, Engl 1A

The development of cognitive processing skills necessary for interpreting between ASL and English. Constructing and deconstructing meaning, memory, listening and attending will be covered. Includes memory building, restating, cloze, and listening exercises.

SIGN 231 — Interpreting 4 Units

Fall Semester

Degree Appropriate

(May be taken three times for credit.)

(May be taken for option of letter grade or Credit/No Credit.)

54.00 hours lecture.

54.00 hours lab.

Prereauisite: SPCH 1A and SIGN 227

Skill 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 a higher level interpreting course.

SIGN 232 — Advanced Interpreting

(May be taken three times for credit.)

4 Units Degree Appropriate

(May be taken for option of letter grade or Credit/No Credit.)

54.00 hours lecture. 54.00 hours lab.

Prereauisite: SIGN 231

3 Units

3 Units

2 Units

Refines 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 this course will improve their skill and better prepare themselves for entrylevel job placement.

SIGN 238 — Oral Transliteration

(May be taken two times for credit.)

Degree Appropriate

3 Units

1 Unit

2 Units

1.5 Units

Degree Appropriate

(May be taken two times for credit.)

54.00 hours lecture.

Learn skills to facilitate communication for Deaf and hard-of-hearing people who use speechreading and speech to communicate. Students who repeat this course will improve skills through further instruction and practice.

SIGN 239 — Practicum

(May be taken for Credit/No Credit only.)

Degree Appropriate

Degree Appropriate

54.00 hours lab.

Prerequisite: SIGN 88B or SIGN 232

Develops and hones interpreting skills in supervised interpreting situations.

SIGN 240 — Vocabulary Building for Interpreters

(May be taken three times for credit.)

(May be taken for Credit/No Credit only.) 36.00 hours lecture.

Prereauisite: SIGN 104

Vocabulary expansion in both ASL and English with the goal of improving interpretations between these two languages. The course will focus on context, semantics, and parts of speech in determining culturally appropriate vocabulary choices. Interpreting students will learn to apply their growing vocabularies to ASL-English interpretations. Students who repeat this course will improve skills through further instruction and practice.

SIGN 250 — Interpreting with Classifiers

(May be taken two times for credit.)

(May be taken for Credit/No Credit only.)

18.00 hours lecture. 27.00 hours lab.

Prereauisite: SIGN 104. SIGN 210

An overview of the common forms of ASL classifier predicates. Developing skill in establishing figure/ground, visualization, and shifting perspectives. Applying classifier predicates within the context of interpreting from English into American Sign Language.

SIGN 260 — Video Interpreting

(May be taken for Credit/No Credit only.)

Degree Appropriate

1.5 Units

18.00 hours lecture.

27.00 hours lab.

Prerequisite: SIGN 231

Video interpreting and skill development as a video interpreter. Includes video relay interpreting (VRS), video remote interpreting (VRI), technical components used in video interpreting, and ethical consideration of the video interpreter. Lab portion of the course will focus on skill

SOCIOLOGY

SOC 1 — Sociology

3 Units

54.00 hours lecture.

Degree Appropriate, CSU, UC

Prerequisite: Eligibility for ENGL 68

development in video interpreting.

A 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 - Honors

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC

Prerequisite: Acceptance into the Honors Program

A 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. 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

54.00 hours lecture. Advisory: Eligibility for ENGL 68 Degree Appropriate, CSU, UC

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.

4 Units

4 Units

SOC 2H — Sociology - Honors

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC

Prerequisite: Acceptance into the Honors Program

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. An honors course designed to provide an enriched experience. Students may not receive credit for both SOC 2 and SOC 2H.

SOC 4 — Introduction to Gerontology

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC Explores the characteristics, life circumstances, and problems of people as they progress through life. Emphasizes theoretical perspectives on the process of aging and the adjustment to aging. Covers sociological factors and social institutions that affect life chances throughout the life cycle. Analyzes and explores the sociological concepts of age, aging, and the aged.

SOC 5 — Introduction to Criminology

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC A scientific analysis of the nature, extent, and causes of violations of societal rules of behavior that are formally defined as crime and delinguency. Includes an analysis of the theoretical perspectives of the sociology of deviance on the criminal justice system and the impact of crime on society.

SOC 5H — Introduction to Criminology - Honors

3 Units

54.00 hours lecture. Degree Appropriate, CSU Prerequisite: Acceptance into the Honors Program.

A scientific analysis of the nature, extent, and causes of violations of societal rules of behavior that are formally defined as crime and delinquency. Includes an analysis of the theoretical perspectives of the sociology of deviance on the criminal justice system and the impact of crime on society. An honors course designed to provide an enriched experience. Students may not receive credit for both Soc 5 and Soc 5H.

SOC 14 — Marriage and the Family

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC

Prerequisite: Eligibility for ENGL 68

Explores the sociological and psychological functions of dating, engagement, weddings, marriage, and the family. Focuses on influences and theories of mate 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

54.00 hours lecture.

of children.

3 Units

Degree Appropriate, CSU, UC (CAN SPAN 4) Degree Appropriate, CSU, UC

SPAN 1+2 = CAN SPAN SEO A

SPAN 2 — Continuing Elementary Spanish

72.00 hours lecture.

Prerequisite: SPAN 1 or SPAN 1H or two years of high school Spanish or eauivalent.

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.

SOC 20 — Sociology of Ethnic Relations

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC 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.

Theoretical aspects of physical, social, emotional and cognitive

development from conception through adulthood. Requires observation

SOC 20H — Sociology of Ethnic Relations - Honors

Degree Appropriate, CSU, UC

(May be taken for option of letter grade or Credit/No Credit.) 72.00 hours lecture.

Prerequisite: SPAN 2 or equivalent

SPAN 3 — Intermediate Spanish

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.

3 Units 54.00 hours lecture. Degree Appropriate, CSU, UC

Prerequisite: Acceptance into the Honors Program

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.

SOC 99 — Special Projects in Sociology

2 Units

(May be taken four times for credit.) 36.00 hours lecture.

Degree Appropriate, CSU

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

SPAN 1 — Elementary Spanish

4 Units

(CAN SPAN 2)

Degree Appropriate, CSU, UC

SPAN 1+2 = CAN SPAN SEQ A72.00 hours lecture.

Development of the ability to converse, read and write in Spanish. Includes essentials of pronunciation, vocabulary, idioms and grammatical structures along with an introduction to Hispanic culture. Intended for students without previous exposure to Spanish.

(CAN SPAN10)

SPAN 4 — Continuing Intermediate Spanish

4 Units Degree Appropriate, CSU, UC

SPAN 3+4 = CAN SPAN SEQ B

(May be taken for option of letter grade or Credit/No Credit.) 72.00 hours lecture.

Prerequisite: SPAN 3 or SPAN 3H or equivalent

Emphasis 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.

SPAN 5 — Advanced Spanish

4 Units Degree Appropriate, CSU, UC

(May be taken for option of letter grade or Credit/No Credit.) 72.00 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.

SPAN 6 — Continuing Advanced Spanish

4 Units

Degree Appropriate, CSU, UC (May be taken for option of letter grade or Credit/No Credit.)

72.00 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.

SPAN 11 — Spanish for the Spanish Speaking 4 Units

72.00 hours lecture. Degree Appropriate, CSU, UC Provides Spanish-speaking students without previous formal study of Spanish with the basis to improve skills in standard Spanish and to broaden their understanding of Hispanic cultures. Focuses on developing vocabulary, improving orthography and the use of grammatical structures, both oral and written. Class instruction conducted in Spanish.

SPAN 12 — **Continuing Spanish for the Spanish Speaking 4 Units** 72.00 hours lecture. Degree Appropriate, CSU, UC

Prerequisite: SPAN 11 or equivalent

Provides Spanish-speaking students with previous formal study of Spanish with further development and improvement of skills in standard Spanish and a broader understanding of Hispanic cultures. Culturally-based topics are the focus of readings and class discussions. Class instruction conducted in Spanish.

SPAN 25 — Spanish Literature

3 Units

Degree Appropriate, CSU, UC

(May be taken for option of letter grade or Credit/No Credit.) 54.00 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.

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.)

27.00 hours lab.

Corequisite: Concurrent or previous enrollment in Spanish
An independent study laboratory course for students who wish to improve their skills in Spanish. May supplement any current or previous 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 40 — Intermediate Spanish for Health Professionals 4 Units Degree Appropriate, CSU

(May be taken for option of letter grade or Credit/No Credit.) 72.00 hours lecture.

Prerequisite: SPAN 2 or equivalent

Intermediate level Spanish for health care professionals emphasizing speaking, oral comprehension and cross-cultural communication within a health care setting. Includes the study of vocabulary, grammar, spoken and written language in context, and Hispanic culture in the U.S. especially as it relates to health care issues.

SPAN 53 — Conversational Spanish

3 Units

Degree Appropriate, CSU, UC

(May be taken for option of letter grade or Credit/No Credit.) 54.00 hours lecture.

Prerequisite: SPAN 2 or equivalent

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.) 54.00 hours lecture.

Prerequisite: SPAN 53

Development of advanced Spanish conversational skills. Emphasis on collaborative activities and practical use of the language. Extensive exposure to Hispanic culture. Grammar is presented in context.

SPEECH

SPCH 1A — Public Speaking

3 Units

54.00 hours lecture.

Degree Appropriate, CSU, UC

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

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC

Prerequisite: Acceptance into the Honors Program

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 1B — Intermediate Public Speaking 3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC

Prerequisite: SPCH 1A or SPCH 1AH

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.

SPCH 3 — Voice and Diction

3 Units

Degree Appropriate, CSU, UC

(May be taken for option of letter grade or Credit/No Credit.)

54.00 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.

SPCH 4 — Oral Interpretation of Literature

3 Units

54.00 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.

SPCH 5 — Readers Theater

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC

Prerequisite: SPCH 1A or SPCH 1AH or SPCH 4
Theory principles and techniques of the inte

Theory, 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.

SPCH 6 — Small Group Communication

3 Units

(CAN SPCH10)

Degree Appropriate, CSU, UC

54.00 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.

SPCH 7 — Intercultural Communication

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC 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.

SPCH 15 — Forensics: Contest Speech and Debate

2 Units

(May be taken four times for credit.)

Degree Appropriate, CSU

18.00 hours lecture.

54.00 hours lab.

Advisory: SPCH 1A or SPCH 1AH

Participation in intercollegiate speech tournaments through Mt. SAC Forensics Team. Instructions in preparatory procedures for these tournaments, including techniques in persuasive oratory, extempore, 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 16A — Forensics: Individual Event Team

2 Units (May be taken three times for credit.) Degree Appropriate, CSU 180.00 hours activity.

Corequisite: SPCH 15 (May have been taken previously)

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 16B — Forensics: Debate Team

2 Units

(May be taken three times for credit.) Degree Appropriate, CSU 180.00 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 16C — Forensics: Readers Theater Team

2 Units

(May be taken three times for credit.) Degree Appropriate, CSU 180.00 hours activity.

Corequisite: SPCH 15 (May have been taken previously)

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. Students will perform in one or more Readers Theater pieces. Students who repeat this course will improve skills through further instruction and practice.

SPCH 20 — Argumentation and Debate

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC

Prerequisite: SPCH 1A or SPCH 1AH or equivalent

Equips the student to engage in rational discussion and reasoned advocacy. Emphasis is given to rhetorical principles of argumentation, both theory and practice.

SPCH 20H — Argumentation and Debate - Honors

54.00 hours lecture. Degree Appropriate, CSU, UC

Prerequisite: SPCH 1A or SPCH 1AH and acceptance into the HonorsProaram

Equips the student to engage in rational discussion and reasoned advocacy. 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.

SPCH 26 — Interpersonal Communication

3 Units

3 Units

54.00 hours lecture.

Degree Appropriate, CSU, UC

Prerequisite: Eligibility for ENGL 68

Principles of verbal and nonverbal 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.

SPCH 26H — Interpersonal Communication - Honors

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC

Prerequisite: Acceptance into the Honors Program

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.

SPCH 68 — Preparation for Public Speaking

3 Units

54.00 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

2 Units

(May be taken four times for credit.) 108.00 hours lecture.

Degree Appropriate, CSU

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.

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.) 54.00 hours lecture.

Advisory: Eligibility for ENGL 67 or READ 80

Provides a foundation for lifelong learning that promotes greater selfawareness 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.

STDY 85 — Focused Study Techniques

1 Unit

(May be taken four times for credit.) 18.00 hours lecture.

Degree Appropriate

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, notetaking, textbook reading strategies, or motivation. Students who repeat this course will improve skills through further instruction and practice.

STDY 85A — Test-Taking and Stress Management 18.00 hours lecture.

1 Unit Degree Appropriate

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 understanding how the brain functions and applying that knowledge to test-taking and stress management strategies.

STDY 85B — Notetaking and Listening

1 Unit

18.00 hours lecture.

Degree Appropriate

Advisory: Eligibility for ENGL 67

A single purpose course designed to support learning in either an academic field or in a vocation. Provides awareness of how the brain functions and applications of that knowledge to notetaking and effective listening strategies.

STDY 85C — Study Techniques and Skills for Online Learning 1 Unit 18.00 hours lecture. Degree Appropriate

Advisory: Eliaiility for ENGL 67

A single purpose course designed to support learning in either an academic field or in a vocation. Focuses on skills for successful online learning and prepares students to take online classes and learn about effective online communication tools.

STDY 85D — Goal Setting and Time Management

1 Unit

18.00 hours lecture. Advisory: Eligibility for ENGL 67 Degree Appropriate

A single purpose course designed to support learning in either an academic field or in a vocation. Provides support in understanding how the brain functions and applying that knowledge to goal setting and time management strategies.

STDY 85E — Memory and Concentration

1 Unit

18.00 hours lecture.

Degree Appropriate

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 understanding how the brain functions and applying that knowledge to memory and concentration strategies.

STDY 100 — Student Achievement and Fundamentals 3 Units of Learning

54.00 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

SURVEYING

SURV 1A — Surveying

3 Units

Degree Appropriate, CSU, UC

(May be taken for option of letter grade or Credit/No Credit.)

successful transfer/transition to four-year institutions or careers.

36.00 hours lecture.

54.00 hours lab.

Prerequisite: MATH 150 or equivalent high school courses

Surveying fundamentals; use and care of surveyinginstruments including steel tape, engineer's level, theodolite and total station; horizontal and vertical measurements; layout, traverse, area computa tions; analysis and adjustments o 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.)

36.00 hours lecture.

54.00 hours lab.

Prerequisite: SURV 1A

Construction surveying; volumes; property surveying; control surveys; California coordinate system; horizontal and vertical curves; introduction to electronic, photogrammetric, and G.I.S. methods; mapping project; introduction to the method of least squares; land survey descriptions; astronomical observations.

TECHNOLOGY-RELATED COURSES

TECH 60 — Customer Relations for the Technician

(May be taken two times for credit.)

Degree Appropriate

1 Unit

(May be taken for Credit/No Credit only.)

18.00 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.

THEATER ARTS

THTR 9 — Introduction to Theatre Arts (CAN DRAM18)

3 Units Degree Appropriate, CSU, UC

54.00 hours lecture.

54.00 hours lecture.

A comprehensive introduction to the theater, including the aesthetic, artistic, technical, and business aspects.

THTR 10 — History of Theatre Arts

3 Units

Degree Appropriate, CSU, UC

Prerequisite: Eligibility for ENGL 1A

Designed 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

3 Units

54.00 hours lecture. Degree Appropriate, CSU, UC 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.

THTR 12 — Principles of Acting II

3 Units

(CAN DRAM22) Degree Appropriate, CSU, UC

54.00 hours lecture.

Prerequisite: THTR 11

Advanced study of principles presented in DRMA 11. An investigation of acting techniques through the study and presentation of varied dramatic scenes.

THTR 14 — Stagecraft

3 Units

36.00 hours lecture. 54.00 hours lab. Degree Appropriate, CSU, UC

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.

THTR 15 — Play Rehearsal and Performance

ce 2 Units Degree Appropriate, CSU, UC

(CAN DRAM16)

(May be taken four times for credit.)

(May be taken for option of letter grade or Credit/No Credit.) 108.00 hours lab.

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. THTR 16 — Theatrical Make-Up 2.5 Units

36.00 hours lecture.

Degree Appropriate, CSU, UC

36.00 hours lab.

An introduction to the theory and practice of makeup for the stage. The student will gain practice in the design and application of straight, stylized character, and other make-up techniques.

THTR 17 — Acting for Television

3 Units

54.00 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 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.) 54.00 hours lab.

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 19 — Theatrical Costuming

3 Units

(May be taken two times for credit.) Degree Appropriate, CSU, UC 36.00 hours lecture.

54.00 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.

THTR 24 — Introduction to Theatrical Design

3 Units

36.00 hours lecture. Degree Appropriate, CSU

54.00 hours lab. *Prerequisite: THTR 14*

Sketching and a variety of media techniques for scenic design for theatre arts. Development of a scenic floor plan, elevations and rendering. Application of basic techniques of drawingand drafting theatrical scenery. Color theory, research, design concept and design process to be studied in depth.

THTR 25 — Theatrical Playwriting

3 Units

54.00 hours lecture.

Advisory: Eligibility for ENGL 1A

Degree Appropriate, CSU

Playwriting for the stage. Students will create and critique their own plays, as well as study and critique plays from well known authors and productions. Includes basics of linear broken linear, episodic, 'A'-'B' and ritual structures.

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.)

36.00 hours lecture. 72.00 hours lab.

Theory and practice of children's theater. Evaluates play production techniques and literature for an audience of children. Includes analysis of plays for children and actual experience in acting, and producing children's plays for public presentation. Students who repeat this course will improve

skills through further instruction and practice. Field trips are required.

THTR 99 — Special Projects in Theatre

2 Units

(May be taken four times for credit.) 36.00 hours lecture.

Degree Appropriate, CSU

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.

TRANSPORTATION

TRAN 17 — Air Transportation

3 Units

54.00 hours lecture. Advisory: AERO 23

Degree Appropriate, CSU

A 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 Regulation

2 Units

36.00 hours lecture. 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 regulations, contract and commercial law in aviation related businesses, property law for

aircraft owners and airport operators, labor and employment law in 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.) 18.00 hours lecture.

industries, international law and treaties that affect aviation.

Prerequisite: Eligibility for ENGL 1A

Introduction to tutoring, with an emphasis on tutoring strategies, problem solving, and working with a diverse student population.

TUTR 10B — Tutoring in the English Language

TUTR 10C — Tutoring as a Supplemental Instructor

(May be taken for option of letter grade or Credit/No Credit.)

the classroom and in small groups under the supervision of a

(May be taken for option of letter grade or Credit/No Credit.)

Tutoring in mathematics with an emphasis on strategies to promote

active learning using manipulatives and dealing with specific obstacles

Tutoring in the English language with an emphasis on approaches to

working with students on written drafts and addressing the needs of

Tutoring as a Supplemental Instructor with an emphasis on tutoring in

18.00 hours lecture.

non-native speakers.

18.00 hours lecture.

designated instructor.

18.00 hours lecture.

in developmental algebra.

Prerequisite: Eligibility for ENGL 1A

Prerequisite: Eligibility for ENGL 1A

TUTR 10D — Tutoring in Mathematics

Prerequisite: MATH 71 or MATH 72 or higher

1 Unit

Non-Degree Credit

Non-Degree Credit

Non-Degree Credit 54.00 hours lecture. (May be taken for option of letter grade or Credit/No Credit.)

1 Unit

1 Unit

3 Units

Degree Appropriate

Advisory: WATR 60 taken prior

WATR 62 — Water Distribution

Water distribution systems operation, administration, safety, maintenance, introduction to Cross-connection Control Title 17. Prepares student for Grade II and III AWWA Distribution Operator Certification.

WATR 63 — Cross Connection Control - Certified Tester 3 Units 54.00 hours lecture. Degree Appropriate

Advisory: WATR 60 taken prior or concurrently

Offers 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 Specialist 3 Units 54.00 hours lecture. Degree Appropriate

Advisory: WATR 60 taken prior

Offers 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 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.

WATER TECHNOLOGY

WATR 60 — Introduction to Water Systems

AWWA Water Distribution Operator Certification.

3 Units

54.00 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 Grade I and II State Water Treatment Operator Certification and Grade I

WATR 61 — Water Treatment

3 Units

54.00 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.

WATR 65 — Water Hydraulics and Instrumentation 3 Units 54.00 hours lecture. Degree Appropriate

Advisory: WATR 60 taken prior

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

Cluster repeatability:

Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values.

Cluster: WELD 96, WELD 97, WELD 98, WELD 99

WELD 30 — Metal Sculpture 2 Units

(May be taken two times for credit.) Degree Appropriate, CSU (May be taken for option of letter grade or Credit/No Credit.)

18.00 hours lecture.

54.00 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 Units

18.00 hours lecture.

Degree Appropriate, CSU

54.00 hours lab.

Fundamentals of welding processes related to the areas of fabrication, construction, machine tool, aerospace and the transportation industries.

WELD 50 — Oxyacetylene Welding

2 Units

18.00 hours lecture.

Degree Appropriate

54.00 hours lab.

Oxyacetylene fusion welding, non-fusion welding and cutting. Develops understanding of and fundamental skills in modern welding practices.

WELD 51 — Basic Electric Arc Welding

2 Units

18.00 hours lecture.

Degree Appropriate

54.00 hours lab.

Advisory: WELD 50

Basic electric arc welding, weld symbols, standard electrode and alloy electrode selection, American Welding Society (A.W.S.) procedure for certification.

WELD 53A — Welding Metallurgy

3 Units

54.00 hours lecture. Degree Appropriate, CSU 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.

WELD 60 — Print Reading and Computations for Welders 3 Units 54.00 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 70A — Beginning Arc Welding

3 Units

3 Units

WELD 90A — Gas Tungsten Arc Welding Degree Appropriate

3 Units

3 Units

Degree Appropriate, CSU (May be taken two times for credit.)

(May be taken for option of letter grade or Credit/No Credit.)

18.00 hours lecture.

108.00 hours lab.

Advisory: WELD 70B taken prior

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.

18.00 hours lecture.

18.00 hours lecture.

108.00 hours lab.

Degree Appropriate

108.00 hours lab.

Advisory: WELD 70A taken prior

welding currents on carbon steel.

WELD 70B — Intermediate 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.

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

WELD 70C — Certification for Welders

3 Units

3 Units

18.00 hours lecture.

Degree Appropriate

108.00 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 80 — Fabrication and Construction Welding

(May be taken two times for credit.)

Degree Appropriate

18.00 hours lecture.

108.00 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 81 — Pipe and Tube Welding

3 Units

(May be taken two times for credit.) 18.00 hours lecture.

Degree Appropriate

108.00 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 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 90B — Semiautomatic Arc Welding Process

(May be taken two times for credit.)

Degree Appropriate, CSU

(May be taken for option of letter grade or Credit/No Credit.)

18.00 hours lecture.

108.00 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.

WELD 91 — Automotive Welding, Cutting and Modification 3 Units

Non-Degree Credit

(May be taken for option of letter grade or Credit/No Credit.) 18.00 hours lecture.

108.00 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), Plasma Arc cutting and oxyfuel cutting and welding will be covered.

WELD 96 — Work Experience in Welding

1 Unit Degree Appropriate

(May be taken four times for credit.) (May be taken for Credit/No Credit only.)

75.00 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 97 — Work Experience in Welding

2 Units

(May be taken four times for credit.)

Degree Appropriate

(May be taken for Credit/No Credit only.) 150.00 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 98 — Work Experience in Welding

3 Units

(May be taken four times for credit.)

Degree Appropriate

(May be taken for Credit/No Credit only.)

225.00 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

(May be taken four times for credit.)

Degree Appropriate

(May be taken for Credit/No Credit only.)

300.00 hours lab.

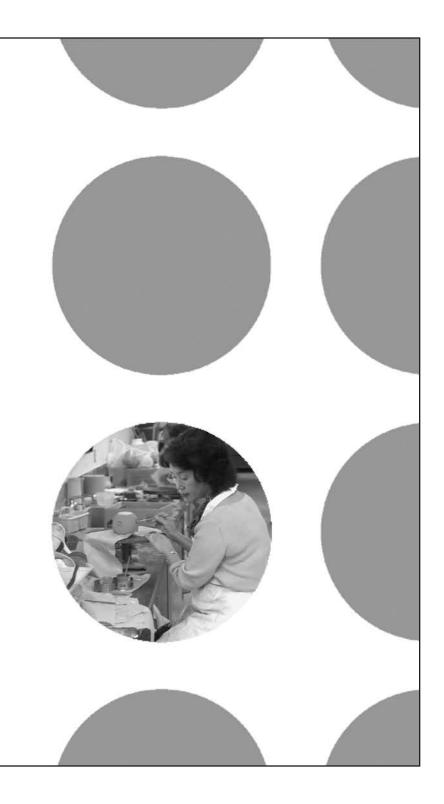
Prerequisite: Compliance with work experience regulations as designated in the college catalog

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.

Section 11

Community Education



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 qualified 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, quizzes, 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 (*Career Paths*)
- 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.

Language Learning 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.

*Note: Although courses are designed for the older adult, anyone 18 years of age and older may enroll.

Certificates of Competency **Certificates in Occupational Training** Small Business Management – Level 1 228 Electronic Cabling and Wiring Technology — Level 1 228 Electronic Cabling and Wiring Technology — Level 2 228

Electronic Technology	
Electronics and Computer-Engineering Technology	
Electronics Communications	
Industrial Electronics	
Health Careers	
Certified Nursing Assistant	
Health Care Interpreting	
Manufacturing Technology	
Manufacturing Technology	
MasterCAM	
Parametric Solid Modeling	
SurfCAM	
Office Technology	
Administrative Assistant – Level 2	
Data Entry	
Desktop Publishing	
Medical Office Specialist	
Office Computer Applications	
Photographics	
Computer Graphics Design / Photography231	
Photography	
Special Needs Population	
Job Readiness Skills232	
Welding Technologies	
Welding	
Licensed Welder232	
Welder with Concentration in Automotive Welding,	
Cutting and Modification	
Welder with Concentration in Gas Tungsten ARC Welding 232	
Welder with Concentration in Semiautomatic	
ARC Welding	
-	

NONCREDIT LIST OF CERTIFICATES

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:

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 Requirements:

Course ID	Course Title
BCSK ABE01	Career Information and Guidance
BCSK ABE02	Adult Basic Education
BCSK ABE03	Adult Basic Education — Leadership Development
BCSK ABE04	Guidance and Orientation to Special Programs
BCSK ABE05	Career Development
BCSK ABE06	Basic Skills Foundation
BCSK ABE07	Re-Entry Work Skills Needed for Today's Workforce
BCSK CNSL05	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
ESL V-HLTH	English as a Second Language for Health Professionals

Secondary Education SYS #259121

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.

High School Academic Decathlon

High School Expository Writing and Critical Reading

Course Title

Certificate Requirements:

Course ID

BCSK HSADE

BCSK HSADRW

BCSK HSPHSC

BCSK HSPLNG

BCSK HSPREA

	3
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 HSEASC	High School Earth Science
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 HSNS1	High School Natural Science 1
BCSK HSNS2	High School Natural Science 2
BCSK HSPHIL	High School Philosophy

High School Physical Science

High School Pre-Algebra

High School Planning and Guidance

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 HSTAL2	High School Topics in Algebra 2
BCSK HSTGEO	High School Topics in Geometry
BCSK HSUSHS	High School United States History
BCSK HSVDEO	High School Video and Media Production
BCSK HSWHS	High School World History
BCSK HSWREX	High School Expository Writing

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, first-served 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	Hour
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 BS025	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	Hour
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)

(23 1 110 013)		
Course ID	Course Title	Hours
VOC BSA70	Payroll and Tax Accounting	54
VOC BSA 75	Using Microcomputers in Financial Accounting, <u>or</u>	18
VOC BSA76	Using Microcomputers in Managerial Accounting	18
	Total Hours	90

OCCUPATIONAL – AGRICULTURAL SCIENCE

Floral Design

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:

cer ancate neganements.		
Course ID	Course Title	Hours
VOC AGOR25	Floral Design — 1	90
VOC AGOR26	Floral Design — 2	90
VOC AGOR27	Floral Design — 3	90
	Total Hours	270

Horse Ranch Management 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:

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 AGL196	Animal Sanitation and Disease Control	54
VOC AGL197	Artificial Insemination of Livestock	36
	Total Hours	324

Interior Landscaping SYS #118137

This certificate 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. The sequence of courses 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 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 Management	54	
VOC AGOR62	Landscape Irrigation – Design and Installation	54	
VOC AGOR64	Landscape Irrigation — Drip and Low Volume	54	
	Total Hours	432	

Landscape and Park Maintenance SYS #621629

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.

Certificate Requirements:

Certificate Requ	Certificate Requirements:		
Course ID	Course Title	Hour	
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	

Landscape Design and Construction SYS #919610

This certificate is designed to give students basic skills needed in employment with a landscape contractor. The sequence can be completed in one year, and employment potential is very good. Courses are offered both Fall and Spring semesters. Some courses will provide transfer articulation with colleges and universities offering a Bachelor of Science Degree in Horticulture.

Certificate Reauirements:

Course ID	Course Title	Hours
VOC AGOR01	Horticultural Science	54
VOC AGOR13	Landscape Design	54
VOC AGOR29	Ornamental Plants — Herbaceous	54
VOC AGOR30	Ornamental Plants — Trees and Woody Shrubs	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 AGOR71	Landscape Construction Fundamentals	54
VOC AGOR72	Landscape Hardscape Applications	54
	Total Hours	486

Landscape Equipment Technology SYS #875616

This certificate is designed to give students basic skills to seek employment in equipment repair, golf courses, rental yards and small equipment repair shops. The sequence is offered on an annual basis and can be completed in two years.

Certificate Requirements:

Course ID	Course Title	Hours
VOC AGOR01	Horticultural Science	54
VOC AGOR51	Tractor and Landscape	54
	Equipment Operations	
VOC AGOR52	Hydraulics	54
VOC AGOR53	Small Engine Repair I	54
VOC AGOR55	Diesel Engine Repair	54
VOC AGOR56	Engine Diagnostics	54
VOC AGOR57	Power Train Repair	54
VOC AGOR71	Landscape Construction Fundamentals	54
VOC AGOR72	Landscape Hardscape Applications	54
	Total Hours	495

Landscape Irrigation SYS #327645

This certificate is designed to give students basic skills in irrigation design, repair installation, water management and troubleshooting. It can be completed in one year and courses are offered Fall and Spring semesters.

Jobs are plentiful with landscape contractors, schools, parks and cities.

Certificate Requirements:

Course ID	Course Title	Hours
VOC AGOR01	Horticultural Science	54
VOC AGOR13	Landscape Design	54
VOC AGOR39	Turf Grass Production and 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 System Management	54
VOC AGOR64	Landscape Irrigation — Drip and Low Volume	54
VOC AGOR71	Landscape Construction Fundamentals	54
	Total Hours	486

Livestock Management SYS #533598

This certificate is designed to give students basic skills in livestock management for employment opportunities on farms, ranches and agriculture sales and services. This sequence is offered on an annual basis and can be completed in two years.

Certificate Requirements:

Course ID	Course Title	Hou
VOC AGAG01	Food Production, Land Use and Politics — a Global Perspective	54
VOC AGAN01	Animal Science	54
VOC AGAN02	Animal Nutrition	54
VOC AGAN94	Animal Breeding	54
VOC AGLI14	Swine Production	54
VOC AGLI16	Horse Production	54
VOC AGLI17	Sheep Production	54
VOC AGLI30	Beef Production	54
VOC AGLI34	Livestock Judging and Selection	36

VOC AGLI96	Animal Sanitation and Disease Control	54
Plus select 2 co	urses from the following:	
VOC AGOR71	Landscape Construction Fundamentals	54
VOC BSM20	Principles of Business	54
VOC BSM66	Small Business Management	54
VOC BSS35	Professional Selling	54
VOC BSS36	Principles of Marketing	54
	Total Hours	630

Nursery Management SYS #703868

This certificate is designed to give students basic skills in production and marketing of plants and dry goods in the wholesale and retail nursery industry. The sequence is offered on an annual basis and can be completed in one year.

Certificate Requirements:

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Course ID	Course Title	Hours
VOC AGOR01	Horticultural Science	54
VOC AGOR02	Plant Propagation/ Greenhouse Management	54
VOC AGOR24	Integrated Pest Management	54
VOC AGOR29	Ornamental Plants – Herbaceous	54
VOC AGOR30	Ornamental Plants – Trees and Woody Shrubs	54
VOC AGOR32	Landscaping and Nursery Management	54
VOC AGOR39	Turf Grass Production and Management	54
VOC AGOR62	Landscape Irrigation — Design and Installation	54
VOC AGOR64	Landscape Irrigation — Drip and Low Volume	54
	Total Hours	486

Park Management SYS #314920

This certificate is designed to enable students to prepare for a career in park management, and provides students with hands-on experience, designed to give them a combination of practical skills and technical knowledge. The sequence of courses is offered on an annual basis and can be completed in one year.

Certificate Requirements:		
Course ID	Course Title	Hours
VOC AGOR01	Horticultural Science	54
VOC AGOR04	Park Management	54
VOC AGOR05	Park Facilities	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 AGOR51	Tractor and Landscape Equipment Operations	54
VOC AGOR62	Landscape Irrigation — Design and Installation	54
VOC AGOR63	Landscape Irrigation System Management	54
VOC AGOR75	Urban Arboriculture	54
	Total Hours	540

Pet Science SYS #525556

This certificate is designed to enable students to enter the retail or wholesale pet industry. Most of the courses in this certificate are offered every Fall and Spring semester. Five of the courses are offered in the evening only and are rotated over four semesters. Thus, the sequence can be completed in two years.

Certificate Reauirements:

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Course ID	Course Title	Hour
VOC AGAN01	Animal Science	54
VOC AGAN02	Animal Nutrition	54
VOC AGAN51	Animal Handling and Restraint	54
VOC AGAN94	Animal Breeding	54
VOC AGLI96	Animal Sanitation and Disease Control	54
VOC AGPE70	Pet Shop Management	54
VOC AGPE71	Canine Management	54
VOC AGPE72	Feline Management	54
VOC AGPE73	Tropical and Coldwater Fish Management	54
VOC AGP374	Reptile Management	54
VOC AGPE76	Aviculture — Cage and Aviary Birds	54
VOC BSM66	Small Business Management	54
	Total Hours	648

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 Reauirements:

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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:

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	Course ID	Course Title	Hour
	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:

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:

Campulation of	Dusings Management Lavel (16)	(مستوماً ١		
completion of	Completion of Business Management — Level I (162 hours)			
Course ID	Course Title	Hours		
VOC BSM60	Human Relations in Business	54		
VOC BSM62	Human Resource Management	54		
VOC CISB15	Microcomputer Applications	72		
	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:

	Total Hours	198
VOC BSM51	Principles of International Business	54
	Improvement	
VOC BSM10	Principles of Continuous Quality	54
VOC BSA07	Principles of Accounting – Financial	90
	5 *	

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:

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	Hour
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:

Completion of International Business Level 1 (162 hours)

completion of international business level 1 (102 hours)		
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	Hours
VOC BSM20	Principles of Business	54
VOC BSM66	Small Business Management	54
VOC BSS36	Principles of Marketing	54
	Total Hours	162

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:

Course ID	Course Title	Hours
VOC BSA07	Principles of Accounting — Financial	90
VOC BSM10	Principles of Continuous Quality Improvement	54
VOC CISB15	Microcomputer Applications	72
	Total Hours	216

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	Hours
VOC CNET50	PC Servicing	72
VOC CNET52	PC Operating Systems	72
VOC CNET54	PC Troubleshooting	72
VOC CNET60	A+ Certification Preparation	54
VOC EL11	Technical Applications in Microcomputers, <u>or</u>	54

	Total Hours	576
VOC EL56L	Digital Electronics Laboratory	18
VOC EL56	Digital Electronics	54
VOC EL50BL	Electronics Laboratory	18
VOC EL50B	Electronics Theory	36
VOC EL50AL	Electronics Laboratory	18
VOC EL50A	Electronics Theory	36
VOC CISB15	Microcomputer Applications	72

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.

Certificate Requirements:

Course ID	Course Title	Hours
VOC EL11	Technical Applications in Microcomputers	54
VOC EL12	Computer Simulation and Troubleshooting	36
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 EL56	Digital Electronics	54
VOC EL56L	Digital Electronics Laboratory	18
VOC EL61	Electronics Assembly and Fabrication	36
VOC EL74	Microprocessor Systems	54
VOC EL74L	Microprocessor Systems Laboratory	18
VOC ELM65A	Mathematics of Electronics	36
VOC ELM65B	Mathematics of Electronics	36
	Total Hours	522

Electronic Assembly and Fabrication

SYS #352346

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.

Course ID Course Title

Course ID	Course Title	Hour
VOC EL50A	Electronics Theory	36
VOC EL50AL	Electronics Theory Lab	18
VOC EL50B	Electronics Theory	36
VOC EL50BL	Electronics Theory Lab	18
VOC EST50	Electrical 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 for Cable Installations	72
VOC EST52	Fabrication Techniques for Cable Installations	72
VOC EL11	Technical Applications in Microcomputers, <u>or</u>	54
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)

Course ID	Course Title	Hours
VOC EST54	Cabling and Wiring Standards	72
VOC EST56	Home Theater and Home Automation Systems	72
VOC EL60	Customer Relations for the Technician	18
	Total Hours	162

Recommended Electives:

VOC EL61	Electronic Assembly and Fabrication
VOC EL62	Advanced Surface Mount Assembly
	and Rework

Electronic Systems Technology – Level 1

SYS #259025

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.

Certificate Requirements:

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 #174983

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 automa-

tion 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

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 entry-level 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	Hours
VOC EL11	Technical Applications in Microcomputers	54
VOC EL50A	Electronics Theory	36
	•	30
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 EL56	Digital Electronics	54
VOC EL56L	Digital Electronics Laboratory	18
VOC EL61	Electronics Assembly and	36
	Fabrication	
VOC ELM65A	Mathematics of Electronics	36
VOC ELM65B	Mathematics of Electronics	36
	Total Hours	414

Electronics and Computer – Engineering Technology SYS #103989

Students completing this certificate will have training in most areas of electronics including: microprocessors and interfacing, electronic communications and industrial electronic controls. The sequence of courses is offered annually. The certificate can be completed in two years.

Jobs include, but are not limited to:

- Electrical and Electronics Installers and Repair
 Electrical and Electronic Engineering Technician
- Electrical and Electronic Equipment Assemblers

Course Title

Microcomputers

Technical Applications in

Computer Simulation and

Certificate Requirements:

Course ID

VOC EL11

VOC EL12

VOC EL 12	Troubleshooting	30
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 EL54A	Industrial Circuits Theory	54
VOC EL54AL	Industrial Circuits Laboratory	18
VOC EL54B	Industrial Electronic Systems	36
VOC EL54BL	Industrial Electronic Systems	18
	Laboratory	
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	
VOC EL74	Microprocessor Systems	54
VOC EL74L	Microprocessor Systems Laboratory	18
VOC ELM65A	Mathematics of Electronics	36
VOC ELM65B	Mathematics of Electronics	36
	Total Hours	792
Recommended I	Electives:	
VOC CD1A	Computer Keyboarding	

VOC CP1A	Computer Keyboarding
VOC EDT11	Technical Engineering Drawing I
VOC EL76	Radio Telephone Communications

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 Requirements:

Hours

54

36

cer emeate nequirements.		
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	1 36
VOC ELM65A	Mathematics of Electronics	36
VOC ELM65B	Mathematics of Electronics	36
	Total Hours	594

Industrial Electronics SYS #612116

This certificate includes electronic devices for industrial controls and motor controls; including programmable logic controls using the Allen Bradley series of PLC's running Windows ladder logic software. The sequence of courses can be completed in two years if taken part-time. Courses are offered on an annual basis.

Certificate Requirements:

ter amende negan ements.		
Course ID	Course Title	Hour
VOC EL11	Technical Applications in Microcomputers	54
VOC EL12	Computer Simulation and Troubleshooting	36
VOC EL50A	Electronics Theory	36

Community Education

	Total Hours	576
VOC ELM65B	Mathematics of Electronics	36
VOC ELM65A	Mathematics of Electronics	36
VUC ELO I	Fabrication	30
VOC ELSOL	Electronics Assembly and	36
VOC EL56L	Digital Electronics Laboratory	18
VOC EL56	Laboratory Digital Electronics	54
VOC EL54BL	Industrial Electronic System	18
VOC EL54B	Industrial Electronic System	36
VOC EL54AL	Industrial Circuits Laboratory	18
VOC EL54A	Industrial Circuits Theory	54
VOC EL51L	Electronic Devices Laboratory	18
VOC EL51	Electronic Devices Theory	54
VOC EL50BL	Electronics Laboratory	18
VOC EL50B	Electronics Theory	36
VOC EL50AL	Electronics Laboratory	18

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

Certificate Reauirements:

Course ID	Course Title	Hour
VOC HTH01	Certified Nursing Assistant	170
VOC HLTH04	Acute Care Nursing Assistant	88
VOC HLTH05	Health Careers Resource Center	AR

258+ AR

Certified Nurse Assistant (CNA) Course Completion Only VOC HLTH 01

Total Hours

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

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 Requirements:

(Successful completion of all courses listed below)			
Course ID	Course Title	Hours	
ESL V-HLTH	English for Health Professionals (if determined necessary after evaluation of spoken and written English skills)	54	
VOC HLTH12	Medical Terminology	54	
VOC ANAT50	Basic Anatomy and Physiology	54	
VOC HLTH13	Interpreting in Health Care Setting 1 $$	84	
VOC HLTH14	Interpreting in Health Care Setting 2 $$	84	
VOC HLTH05	Health Careers Resource Center (4 hours/week coaching sessions and 3 hrs/wk arranged in HCRC, Fall and Spring semesters)	112	
VOC HLTH15	Externship in Health Care Interpreting	48	
VOC HLTH20	Health Care Interpreter Seminar	12	

Basic Reauirements:

Applicants should have advanced academic proficiency in English, both spoken and written, and should be equally proficient in their native language.

Total Hours

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	Hours
VOC MFG11	Manufacturing Processes I	36
VOC MFG12	Manufacturing Processes 2	36
VOC MFG15	AutoCAD 2-D	36

3-D CAD — Mechanical Modeling	36		
Parametric Solid Modeling for	36		
Manufacturing			
MasterCAM I	36		
Advanced MasterCAM	36		
MasterCAM Solids	36		
SurfCAM I	36		
SurfCAM II	36		
Blueprint Reading for	36		
Manufacturing			
Technical Mathematics –	36		
Manufacturing Applications			
` I	36		
Numerical Control) Operations			
Hours	576		
PLUS – Select 2 courses from the following:			
Advanced Parametric Solid	36		
Modeling for Manufacturing			
AutoDesk Inventor	36		
Introduction to Welding	36		
	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 Hours courses from the following: Advanced Parametric Solid Modeling for Manufacturing AutoDesk Inventor		

MasterCAM

SYS #800999

502

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.

Certificate Requirements:

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.

Certificate Requirements: Course ID **Course Title Hours** 36 VOC MFG15 AutoCAD 2D 3-D CAD — Mechanical Modeling VOC MFG17 36 VOC MFG19 Parametric Solid Modeling for 36 Manufacturing VOC MFG25 **Advanced Mechanical Desktop** 36 VOC MFG27 AutoDesk Inventor 36 **Total Hours** 180

SurfCAM SYS #255843

This certificate is a direct employment pathway for manufacturing students who wish to write, edit, download and run Computerized Numerical Control (CNC) machines, 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

certificate negatiements.		
Course Title	Hours	
Business English	54	
Computer Keyboarding, <u>or</u>	72	
Computer Keyboarding, and	36	
Computer Keyboarding	36	
Office Computer Applications, or	72	
Microcomputer Applications	72	
Office Management Skills	54	
Total Hours	396	
	Course Title Business English Computer Keyboarding, or Computer Keyboarding, and Computer Keyboarding Office Computer Applications, or Microcomputer Applications Office Management Skills	

Administrative Assistant – Level 2 SYS #316457

This certificate prepares students for clerical positions where office organization and transcription skills are needed. The sequence can be completed in one year, and courses are offered both Fall and Spring semesters.

Certificate Requirements:

Completion of Administrative Assistant – Level I Certificate (396 hours)

Course Title	Hours
Business Communications	54
Intermediate Computer Keyboarding	72
Word for the Business Professional, <u>or</u>	72
Transcription Techniques	54
Total Hours	252
	Business Communications Intermediate Computer Keyboarding Word for the Business Professional, <u>or</u> Transcription Techniques

Data Entry SYS #234664

This certificate 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. The sequence is offered annually and can be completed in one year.

Certificate Requirements:

Course ID	Course Title	Hours
VOC CP02	Intermediate Computer Keyboarding	72
VOC CP12	Office Computer Applications, or	72
VOC CISB15	Microcomputer Applications	72
VOC CP18	Data Entry	54
	Total Hours	270

Desktop Publishing SYS #162526

This sequence of courses will afford career opportunities in businesses desiring desktop publishing skills. The certificate can be completed in one year and courses are offered annually, including Summer and Winter Intersessions.

Certificate Requirements:		
Course ID	Course Title	Hours
VOC CP01	Computer Keyboarding, <u>or</u>	72
VOC CP01A	Computer Keyboarding and	36
VOC CP01B	Computer Keyboarding	36
VOC CP11	Internet Research for Business	36
VOC CP60	Desktop Publishing with InDesign or PageMaker	72
VOC CP62	Desktop Publishing with QuarkXpress	72
VOC CP63	Adobe Illustrator for Desktop Publishing, <u>or</u>	72
VOC CP64	Desktop Publishing Seminar	45
VOC CP65	Modifying Images for Desktop Publishing, <u>or</u>	72
VOC GRP10	Photo Editing with Photoshop	54
VOC GRP16	Digital Image Design with Illustrator and Freehand	54
	Total Hours	621

Medical Office Specialist SYS #137648

The courses in this certificate are intended to prepare students for employment as entry-level medical office assistants, medical receptionists, administrative assistantsmedical, medical office managers or other office support staff in the medical field. This sequence is offered on an annual basis and can be completed in two years.

Certificate Requirements:

Course ID	Course Title	Hours
VOC BSA72	Bookkeeping – Accounting	90
VOC BSO05	Business English	54
VOC BSO 25	Business Communications	54
VOC CP01	Computer Keyboarding	72
VOC CP02	Intermediate Computer Keyboarding	72
VOC CP12	Office Computer Applications, or	72
VOC CISB15	Microcomputer Applications	72
VOC CP18	Data Entry	54
VOC CP20	Microsoft Word, <u>or</u>	72
VOC CP28	Office Management Skills	54
VOC CP68	Transcription Techniques	54
VOC HLTH12	Medical Terminology	54
	Total Hours	774
	VOC BSA72 VOC BSO05 VOC BSO 25 VOC CP01 VOC CP02 VOC CP12 VOC CISB15 VOC CP18 VOC CP20 VOC CP28 VOC CP28	VOC BSA72 VOC BSO05 Business English VOC BSO 25 Business Communications VOC CP01 Computer Keyboarding VOC CP02 Intermediate Computer Keyboarding VOC CP12 Office Computer Applications, or VOC CISB15 Microcomputer Applications VOC CP18 Data Entry VOC CP20 Microsoft Word, or VOC CP38 VOC CP48 VOC CP48 VOC CP48 Transcription Techniques VOC HITH12 Medical Terminology

Office Computer Applications SYS # 534470

This certificate in Office Computer Applications is customized to meet the needs of the entry-level adult student or professional, who is seeking to acquire an array of office computer skills required in a computerized office environment. This sequence of courses can be completed in one year and is offered on an annual basis.

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ceruncate kequirements:		
Course ID	Course Title	Hou
VOC CP-BC1	Basic Computing – Level 1	51
VOC CP-BC2	Basic Computing – Level 2	48
VOC CP-BC3	Basic Computing – Level 3	48
VOC CP-NET	Internet Research – An Introduction	23
VOC CP-CC	Creative Computing	51
	Total Hours	221

OCCUPATIONAL - PHOTOGRAPHICS

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.

Certificate Requirements:			
Course ID	Course Title	Hours	
VOC GRP1	Computer Graphics Lab	18	
VOC GRP10	Photo Editing with Photoshop	54	
VOC GRP12	Advanced Photo Editing with Photoshop	54	
VOC GRP14	Digital Color Management	54	
VOC GRP16	Digital Image Design with Illustrator & Freehand	54	
VOC GRP20	Applying Photos and Images in Multimedia	54	
VOC GRP28	Digital Portfolio	36	
VOC PHO10	Basic Digital and Film Photography	54	
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 GRP18	Advanced Image Design - 3-D Modeling Techniques
VOC PH001	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 Requirements:

Course ID	Course Title	Hours
VOC GRP10	Photo Editing with Photoshop	54
VOC PHO10	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 PHO16	Fashion Photography, <u>or</u>	54
VOC PHO18	Portraiture and Wedding Photograph	y 54
VOC PH017	Photocommunication	54
VOC PHO20	Color Photography	54
VOC PHO28	Photography Portfolio Development	t 36
VOC PH030	Commercial and Illustrative Photography	54
	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 PH002	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

Welding 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	36
VOC WLD70A	Beginning ARC Welding Note: Any higher level welding course may be substituted for VOC WLD 70A.	54
VOC WLD70B	Intermediate ARC Welding	54
	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.

VOC MFG70	Technical Mathematics — Manufacturing Applications
VOC WLD60	Print Reading and Computations for Welders
VOC WLD70C	Certification for Welders

Licensed Welder

This certificate is designed to prepare students for entry-level 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:

Course ID	Course Title	Hours
VOC WLD40	Introduction to Welding	36
VOC WLD50	Oxyacetylene Welding	36
VOCWLD51	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 #483743

Preparation as a Licensed Welder with additional skills and theoretical development in automotive welding, cutting and modification.

Certificate Requirements:

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 #108929

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	Hours
VOC WLD90A	Gas Tungsten ARC Welding	54

Welder with Concentration in Semiautomatic ARC, Welding SYS #460640

Preparation as a Licensed Welder with additional skills and theoretical development in Semiautomatic ARC Welding.

Certificate Reauirements:

Completion of Licensed Welder Certificate (486 hours)

Course ID	Course Title	Hours
VOC WLD90B	Semiautomatic ARC Welding Process	54

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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 ABEO2 — 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

communication, facilitation, problem-solving, decision-making and conflict resolution. Introduction to organizational structures, governance, models and group process.

BCSK ABEO4 — 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 ABEO7 — 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 self-management 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 LANGO1 — 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 LERNO3 — 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 HSEASC — High School Earth Science

Designed to stress the fundamentals of the study of Earth and of space. Earth's place in the universe, dynamic Earth processes, energy in the earth system, biochemical cycles, structure and composition of the atmosphere and California geology.

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

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 LANGO3 — 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 community-oriented 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 AGAGO1 — 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 AGANO1 — 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 AGANO2 — 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 AGL196 — 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 AGL197 — 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 AGORO2 — 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.

VOC AGOR04 — Park Management

Management and operation of municipal park departments. Includes the development of budgets, purchasing, park policies, planning and scheduling.

VOC AGOR05 — Park Facilities

Management and operation of different types of park facilities. Includes the management of sports fields, recreation centers, campgrounds, aquatic facilities and golf courses.

VOC AGOR13 — Landscape Design

Fundamentals and implementation of landscape design. Principles of design, the design process, drafting, graphics, site evaluation, landscaping materials, and plant usage. Projects emphasize residential and small commercial sites.

VOC AGOR15 — Interior Landscaping

Design, Installation and maintenance practices used in interior landscaping. Includes identification, culture and care of plants suitable for interior use.

VOC AGOR24 — Integrated Pest Management

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.

VOC AGOR25 — Floral Design 1

Application of principles in the art of floral design as to form, style and composition. Designing of floral arrangements, wreaths, sprays, baskets, bouquets, wedding flowers and corsages are included in the laboratory setting.

VOC AGOR26 — Floral Design 2

Continued application of principles in the art of floral design. Contemporary design theory emphasizing creativity, self-expression and professional design situations.

VOC AGOR27 — Floral Design 3

Advanced application of principles in the art of holiday designs, party and wedding designs, and sympathy designs. Florist management operations will emphasized.

VOC AGOR29 — Ornamental Plants - Herbaceous

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 from the California Association of Nurseries and Garden Centers (CANGC) and California Landscape Contractors Association (CLCA) certification test plant lists.

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.

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 low-flow irrigation practices. Design, installation techniques, operation and maintenance of drip and low-flow irrigation systems, including determination of irrigation requirements, selection of emitters and low-flow 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 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 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 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 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.

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.

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.

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 business organization.

VOC BSM66 — Small Business Management

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 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 BS005 — Business English

Skills and techniques of English, as applied to business situations. Emphasis on effective paragraphs and memos.

VOC BSO25 — Business Communications

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 BS026 — Oral Communications for Business

Designed to help business people communicate more effectively in spoken communication situations such as training sessions, presentations, and professional discussions.

VOC BS096 — Spelling and Vocabulary for Success

Advisory Prerequisite: VOC BS005

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.

Note: VOC BSO 96A and VOC BSO 96B are equivalent to VOC BSO 96.

VOC BS096A — Business Vocabulary

Develops a broad word command of new and specialized business vocabulary for use in various businesses. Improves vocabulary to enhance written and oral communication.

VOC BSR52 — Real Estate Practice

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 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 behavior and critical steps in the selling process. Students develop and offer a sales presentation for a selected product, service or concept.

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.

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 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.

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.

VOC CISB15 — Microcomputer Applications

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.

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 and manuscripts.

VOC CP01A — Computer Keyboarding

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.

VOC CP01AL — Computer Keyboarding Laboratory

A lab study program designed to complement the lecture materials presented in computer program instructional courses.

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.

VOC CP01BL — Computer Keyboarding Laboratory

A lab study program designed to complement the lecture materials 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

Corequisite: 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

Coreauisite: 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.

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.

Prereauisites:

- 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: Enrollment 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.

Prerequisites:

- 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.

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 skills by further instruction and practice.

VOC MFG27 — AutoDesk Inventor

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.

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 and practice.

VOC MFG38B — Advanced MasterCAM

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.

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 further instruction and practice.

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.

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 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

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 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 MFG85 — Manual CNC (Computerized Numerical Control) Operations

Theory and practice in manually developing CNC programs. Methods of 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 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 NF82 — Vegetarian Cuisine

Investigates nutritional issues related to vegetarian eating practices. Includes laboratory experience in preparation of vegetarian foods and meals.

OCCUPATIONAL – PHOTOGRAPHICS & PHOTOGRAPHY

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 software. A hands-on course which includes scheduled field trips.

VOC GRP01 — Computer Graphics Laboratory

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.

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 retouching.

VOC GRP12 — Advanced Photo Editing with Photoshop

Advanced training in Photoshop editing, color, exposure, sharpness and contrast enhancement, layer and object masking, vector tools, image composting and the uses of blended modes; design of realistic and imaginary photo illustrations using 8- and 16-bit high resolution images.

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 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.

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 QuickTime image movies for digital compositing and post-production.

VOC GRP20 — Applying Photos and Images in Multimedia

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.

VOC GRP28 — Digital Portfolio

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 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 PHO01 — Laboratory Studies in Black & White Photography

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.

VOC PH002 — Laboratory Studies in Color Photography

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.

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 PHO10 — 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 PHO11 — 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 PHO18 — 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 PH020 — Color Photography

An introduction to current methods of producing color media, color negatives, positive transparencies, and outputting color prints.

VOC PHO21 — 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 PH028 — 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 Arc 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 WOODO3 — 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 ENG8A — Creative Writing – Fiction

Elements, processes and techniques of fiction writing. Includes genre, settings, point of view, character sketch, plot development, description and dialogue with an emphasis on student development as a writer of fiction through practice and discussion.

OAD ENG8B — Creative Writing – Poetry

Examines the student's development as a poet.

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 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 MOEXO4 — 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 MOEXO6 — 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 MOEXO7 — 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, guest 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 Baroque 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 bisque 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-of-a-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.

Eve 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,

College Policies and Notices

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 & Sexual Violence

Sexual violence, including sexual assault, harassment, rape and stalking, are crimes that are not tolerated on this campus. Mt. San Antonio College has adopted Board policies and procedures to address sexual crimes, sanctions for offenders, and to outline access to treatment and general information for victims. (Board Policy 3430, 3500, 3540). All applicable punishment, including criminal charges, disciplinary action, etc., shall be applied whether the violator is an employee, student or member of the general public.

Services available to help assure your safety include:

 Campus Escorts who are available during evening hours to assure your safety on campus and in parking lots. They are provided at your request, please call ext. 4233.

- Blue emergency telephone towers that are located throughout the campus and parking lots for you to access Public Safety immediately should you need assistance with any emergency occurrence.
- Public Safety can be reached by calling the campus number at (909) 594-5611, ext. 4555.
- **911** for any emergency. Be prepared to identify your exact location. For additional information, go to **www.mtsac.edu/students**

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.
- 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.

- Causing or attempting to cause damage to College property or to private property on campus.
- 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.
- 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.
- 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 three categories: Academic, Non-Academic and Discrimination Complaints. 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 no later than 30 school days (Monday - Friday when classes are in session) after the beginning of the primary term following the alleged violation, or 30 school days from the time that the student learns of the basis for the grievance. 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 (or staff member/administrator for non-academic grievances) 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 of the division of the faculty defendant in an effort to resolve the problem. In the event that the problem cannot be resolved within 10 school 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. If the student or faculty/staff member chooses to appeal the decision of the Committee, the appeal is submitted to the College President. The final appeal process resides with the Board of Trustess; their decision concludes the grievance process.

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.

Reserve Officer Training Corps (ROTC)

Students interested in pursuing a military career can participate in an approved Reserve Officer Training Corps program offered through local universities. Programs include the Air Force ROTC Program offered through the University of Southern California (USC) and Harvey Mudd College. Other university ROTC programs include the Army ROTC programs at Cal Poly Pomona, USC and Cal State Long Beach. These programs are open to community college students pursuing an undergraduate degree, prior to transfer. Competitive one- to four-year scholarships are available to qualified applicants. Additionally, students may be eligible to receive money to cover books and other costs. Students interested in participating in an ROTC program are advised to contact the ROTC program at the participating university.

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

PUBLIC SAFETY DEPARTMENT STATISTICAL CRIME REPORT			
Violation	2005	2006	2007
Murder	0	0	0
Rape	0	0	0
Robbery	0	1	2
Assault	5	17	4
Weapons Violation	3	3	2
Hate Crimes	0	0	0
Arson	0	0	0
Burglary	11	11	8
Burglary from Vehicle	16	28	24
Theft	44	59	68
Theft from Vehicle	14	9	20
Stolen Vehicle (GTA)	18	26	16
Vandalism	23	16	26
Liquor Law Violations	0	1	1
Illegal Drugs	1	3	4
Yearly Totals	135	174	175

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).
- 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.
- 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.
- 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.
- 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

- Any release of a student's educational records, with the exception listed below, must be made with the student's written consent.
- 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:
 - 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.
 - 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.
 - 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.
 - 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.
 - 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.

- 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).

The 1996 Soloman Amendment

The 1996 Solomon Amendment is federal law that compels institutions that receive federal funding to provide (upon request) directory information, plus address, phone number, age and class level to military personnel so that these personnel can recruit students.

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.

Student Right-to-Know Rates

Completion Rate: 41.2% Transfer Rate: 16.9% From 2003 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 2003, 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, 41.2 percent attained a certificate or degree or became 'transfer- prepared' during a three-year period, from Fall 2003 to Spring 2006. Students who are 'transferprepared' have completed 56 transferable units with a GPA of 2.0 or better.

Based on the cohort defined above, 16.9 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 2006.

Α

Albertson, Toni (2006)

English, Literature & Journalism B.A., University of La Verne M.A., University of Nebraska

Alexander, Carolyn (1991)

Fine Arts

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)

Fine Arts

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 & 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)

Commercial and Entertainment Arts 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

Astorga, Juan Carlos (2005)

Student Services-Upward Bound B.A., University of California, San Diego M.A., San Diego State University

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

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

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

Blvzka, 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,

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 La Verne

Earth Sciences, Astronomy

B.A., Amherst College

Boryta, Mark (2001)

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

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

Boyer, Michelle (2007)

Nursing

B.A., Plattsburgh State University

M.A., Syracuse University

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)

Fine Arts

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)

Commercial and Entertainment Arts 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

Burman, Ema (2007)

Learning Assistance

B.S., M.Ed., University of La Verne

Burnes, Fatemeh (1992)

Fine Arts

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 & Manufacturing
A.S., Mt. San Antonio College
F.A.A. Certified, Airframe and Powerplant
F.A.A. Certified, Inspector Authorization

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)

Commercial and Entertainment Arts 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, Learning Assistance Center
B.S., University of California, Los Angeles
M.P.A., California Lutheran University
M.A., California State University, Los Angeles

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

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

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 O'Brien (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)

Dean, Technology & Health

A.B., Stanford University

M.S., University of Michigan

Ed.D., Nova Southeastern University

Davis, Maria (2005)

Consumer Science & Design Technologies 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)

Fine Arts

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

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, Dominguez Hills

E

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 & 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

Eisley, Beniamin N. (1990)

Air Conditionina & Weldina

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 Psv.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 Jr., Edwin (2008)

Business Administration

A.B., University of Southern California

J.D., Pepperdine University School of Law

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)

Fine Arts

B.F.A., Brooks Institute

M.F.A., Claremont Graduate University

Faraone, Teresa M. (1999)

Consumer & 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

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)

Enalish, 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)

Counselina

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 (Casev) (2006)

Communication

B.S., M.A., University of Texas at Austin

Garcia, Daniel (2007)

Weldina

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)

Aaricultural 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)

Enalish, Literature & Journalism

B.A., University of California, Irvine

M.A., Ph.D., Claremont Graduate University

Gonzales, Barbara (2002)

Learning Assistance

A A A A C A . . . C !!

A.A., Mt. San Antonio College B.A., M.Ed., University of La Verne

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

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)

Fine Arts

M.A., University of Essen, Duisburg, Germany

Hall, Martha (2007)

Learning Assistance
B.A., University of California, Riverside
M.A., Claremont Graduate University

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)

Commercial and Entertainment Arts 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

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, Marcella (2007)

Counseling

B.A., M.A., California State University, San Bernardino

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, Harlan (2005)

History, Art History, Geography, Political Science B.A., M.A., California State University, Fullerton Ph.D., University of California, Riverside

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, Computer Science 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

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Impara, Carol (2005)

Consumer & Design Technologies B.A., Davidson College M.S., University of Maryland

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)

Public Services

A.S., Los Angeles City College

B.S., Pepperdine University

M.A., John F. Kennedy University

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,

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

K

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)

Enalish, 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

Keys, S. Carolyn (2001)

Dean, Student Services

B.A., California State University, Fullerton

M.B.A., National University, La Jolla

Khan, M. Zahir (1990)

Physics & Engineering

B.E., University of Poona

M.S., Ohio State University

Registered Professional Engineer

Khoddam, Kambiz (1999)

Mathematics, Computer Science

B.S., M.A., California State University, Long Beach

Kido, Janine (2005)

Biological Sciences

B.A., M.S., California State University, Fullerton

Kim, Candice S. E. (2000)

Mathematics, Computer Science

B.S., M.S., California State University, San Diego

King, Nancy L. (1988)

Counselina

B.S., University of California, Los Angeles

M.S., University of Southern California

Kirchgraber, Albert (1999)

Mathematics, Computer Science

B.S., California State Polytechnic University. Pomona

M.A., California State University, Fullerton

Kittle, Paul (2004)

Librarian

B.A., University of California, Riverside

M.S., Loma Linda University

M.S.L.S., University of Southern California

Klawitter, Kenneth (1991)

Communication

B.S., Bradley University, Illinois

M.A., Miami University, Ohio

M.A., California State University, Los Angeles

Knapp, Joshua (2000)

Psychology, Education

B.A., University of California, Berkeley

Ph.D., University of California, Santa Barbara

Kohn, Dafna (2001)

History, Art History, Geography, Political Science

B.S., Humbolt State University

M.S., California State University, Los Angeles

Kojima, Tetsuro (2000)

Mathematics, Computer Science

B.A., M.S., California State University, Los Angeles Ph.D., University of Southern California

Kolchakian, Misty (2005)

Psychology, Education

B.S., University of Florida

M.A., Ph.D., University of Maryland, College Park

Krider, Terrance M. (1981)

Respiratory Therapy

A.S., Washtenaw Community College

B.S., Loma Linda University

Kunkler, Constance (2006)

Nursina

B.S.N., M.S.N., California State University, Dominguez Hills

L

Landeros, Darlene (2001)

Child Development

A.A., Rio Hondo Community College

B.A., University of La Verne

M.A., Pacific Oaks College

Lane, David C. (1989)

Sociology, Philosophy

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

Lawlor, Elizabeth (2000)

Biological Sciences

A.B., Brown University

M.A., Ph.D., University of California, Riverside

Lawson, M. Alan (1990)

Business Administration

B.A., University of Utah

M.B.A., California State University, Los Angeles

J.D., American College of Law, Brea, California

Leader, Jennifer (2006)

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)

Counselina

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)

Mathematics, Computer Science B.A., M.A., California State University, Fullerton

Long, Susan (1998)

Dean, Arts

B.A., M.A., California State University, Long Beach Ed.D., Pepperdine University

Long, Terri Smith (1989)

Earth Sciences, Astronomy

B.A., M.S., Ed.D., University of Southern California

Lopez, Audra (2001)

Agricultural Sciences

B.S., M.S., California State Polytechnic University, Pomona

Louie, Charis (2000)

Psychology, Education

B.A., Pomona College

M.A., University of Missouri

Ph.D., University of Missouri, Columbia

Loyd, Rene (1999)

Mathematics, Computer Science
A.S., Crafton Hills Community College

B.S., M.S., University of California, Riverside

Luian, Angel (1999)

Counseling

B.A., M.A., California State University, Fullerton

Lynes, Billie (2006)

Nursing

B.S.N., M.S.N., University of Phoenix

M

McCormick, Elizabeth (1991)

English, Literature & Journalism
B.A., Barnard College
M.A., Ph.D., Claremont Graduate University

McDonald, Christopher (2002)

Mathematics, Computer Science

B.A., M.S., California State Polytechnic University, Pomona

McFarland, Thomas (1997)

Accounting & Management

B.S., M.B.A., California Polytechnic University, Pomona

McFaul, Jason (1999)

English, Literature & Journalism B.A., M.A., University of the Pacific

McGeough, Daniel (1986)

Accounting & Management

B.A., California State University, Fullerton M.B.A., California State University, Long Beach Certified Public Accountant

McGowan, Richard (1991)

Accounting & Management

B.S., San Diego State University

M.B.A., California State Polytechnic University,

Certified Public Accountant

McGraw, Jill (1991)

Mental Health Technology

A.S., Santa Ana College

B.V.E., California State University, Long Beach

McGruder, Charles (1992)

Sociology, Philosophy

B.A., University of Redlands, Johnston College M.A., Ph.D., Claremont Graduate School

McIntosh, William (1999)

Music

B.A., B.M., Biola University

M.M., California State University, Long Beach

McKee, Catherine (1995)

Business Administration

B.A., University of California, Berkeley

J.D., University of San Diego School of Law

McLaughlin, David L. (1997)

Radiologic Technology

A.A., A.S., Mt. San Antonio College

B.S., University of St. Francis

R.T., American Registry of Radiologic Technology California Certified Radiologic Technologist

M.Ed., California State Polytechnic University,
Pomona

McMullin, Janet (1990)

Mathematics, Computer Sciences B.S., M.S., Northern Illinois University

McPhail, Yuki (1992)

Foreign Languages

B.A., Carthage College, Wisconsin

M.A., Fuller Theological Seminary, Pasadena

Ma, Jannie (2008)

Learning Assistance

B.A., M.A., University of Southern California M.A., California State University, Fullerton

MacDonald, Jennifer (2001)

Program Director, Histologic Technician Biological Sciences

A.S., Canadore College, Canada

Maestro, Patricia (2004)

Counseling/Coordinator Learning Communities
A.A., East Los Angeles Community College
B.A., California State University, Long Beach
M.S., University of La Verne

Mageean, Michael (2000)

Enalish, Literature & Journalism

B.A., M.A., California State Polytechnic University, Pomona

Ph.D., University of California, Irvine

Marano, Americo (1986)

Foreign Languages

A.A., East Los Angeles College

B.A., M.A., University of California, Los Angeles

M.A., California State University, Fullerton

Martin, Douglas (1988)

Mathematics, Computer Science

B.A., Messiah College

M.A., California State University, Fullerton

Mason, Martin (2002)

Physics, Engineering

B.S., University of California, Riverside

M.S., University of California, Riverside

Business Administration

M.S., M.A., Ph.D., State University of New York

Maynard, Phillip D. (1990)

Masoomian, Rasool (2001)

Communication

B.A., M.A., California State University, Fresno

Mbuthi, Stanley W. (1998)

Counselina

B.A., California State Polytechnic University, Pomona

M.S., California State University, Los Angeles

Medina, David (1994)

Sociology, Philosophy

B.A., M.A., California State University, Fullerton

Meggelin, Nancy (1998)

Mental Health Technology

B.S.N., University of Phoenix M.S.N., Ed., University of Phoenix

misin, Ear, omversity

Mehta, Jaishri (1999)

Computer Information Systems

B.A., M.A., Florida Institute of Technology

Meyer, Elizabeta (2001)

Biological Sciences

B.A., University of Pennsylvania

Ph.D., Michigan State University

Mezaki, Barbara (1990)

American Lanauaae

B.A., University of Buffalo

M.Ed., University of Buffalo J.D., Southwestern University

.

Mezquita, Jesse A. (1977)

Commercial and Entertainment Arts

A.A., East Los Angeles College

B.V.E., M.V.E., California State University, Los Angeles

The Faculty

Mirman, David (2000)

Biological Sciences

B.A., University of Pennsylvania M.S., University of California, Davis

Muñiz, Laura A. (2005)

Counseling, EOP&S/CARE

A.A., Mt. San Antonio College

B.S., California State University, Fullerton

M.S., University of La Verne

Munro, Matthew J. (1998)

Mathematics, Computer Science B.S., University of Washington

M.A., University of Colorado

N

Nakamura, Amy Bates (2005)

Dance

B.A., California State University, Fullerton M.F.A., University of California, Irvine

Nejad, Iraj Behbahani (1992)

Chemistry

B.S., Judi Shapur University, Iran

Ph.D., Michigan State University

Neel, Monique (2006)

Radiologic Technology

A.S., A.A., Mt. San Antonio College Certified Radiology Technologist California

Certified Mammographer

R.T., American Registry of Radiologic Technology R.T. (M), American Registry of Mammography

Newman, Charles (2000)

Chemistry

B.S., Northern Arizona University Ph.D., University of California, San Diego

Nguyen, Kim-Leiloni (Loni) (2000)

Biological Sciences

B.A., University of California, San Diego M.D., University of California, Irvine

Ph.D., University of California, Los Angeles

Nitta, Akira (Art) (2006)

Mathematics, Computer Science

B.A., University of Irvine

M.S., California State Polytechnic University, Pomona

Nixon, Bruce (1999)

Mental Health Technology

B.S., California State Polytechnic University, Pomona

Nixon, John S. (2004)

President/CEO

B.A., M.A. University of California, Irvine Ph.D., University of Southern California

Norton, Carol (1991)

Learning Assistance

B.A., Colorado Women's College

M.Ed., University of La Verne

0

0'Brien, Paul (1999)

English, Literature & Journalism B.A., University of California, Los Angeles M.A., San Jose State University

Ocampo, James (1990)

Director, Assessment & Matriculation
B.A., M.A., California State University, Northridge

Olayiwola, Joy (2000)

Nursing

A.A., Mt. San Antonio College

A.S., Chaffey College

B.S.N., California State University, Los Angeles

M.S.N., University of Phoenix

Orr, Jondea (2004)

Nursing

A.D.N., Rio Hondo College

B.S.N., California State University, Dominguez Hills M.S.N., University of Phoenix

P

Parker, Stacy (2001)

Physical Education

B.A., University of California, Irvine M.Ed., Azusa Pacific University

Parra, Heidi R. (1992)

Mathematics, Computer Science

A.A., Cerritos College

B.A., M.A., California State University, Fullerton

Pascoe, Virginia (1995)

Biological Sciences

A.A., Cerritos College

B.S., B.A., M.S., California State University, Long Beach

Patterson, Richard (2002)

Computer Information Systems

B.S., California Polytechnic University, Pomona M.Div. St. Johns Theologic Seminary

Peck, Herbert (2002)

Aircraft Maintenance & Manufacturing A.A., Fullerton College

Pedersen, Kirk (1998)

Fine Arts

B.A., Midland College

M.A., San Francisco State University

M.F.A., Claremont Graduate School

Pellitteri, John (1999)

Counseling, ESL

B.A., California Polytechnic University, Pomona

M.S., University of La Verne

M.A., Psy.D., California School of Professional Psychology

Perez, Anabel (2007)

Counselina

M.S., California State University, Long Beach

Perez-Garcia, Julie (1999)

Counseling

B.A., University of California, Santa Barbara Ph.D., Washington State University

Perkins, Robert (2001)

Architecture & Engineering Design Technology B.S.C.E., Princeton University M.Arch., University of Colorado

Petersen, Craig A. (1981)

Biological Sciences

B.S., M.S., California State University, Los Angeles

Plesetz, Sarah (2008)

Nursing

A.S., Los Angeles County School of Nursing

A.A., Mt. San Antonio College

B.A., M.A., California State University, Dominguez Hills

Pop, Horia C. (1998)

Mathematics, Computer Science

B.A., University of Bucharest

M.S., University of Iowa

M.A., Ph.D., University of Southern California

Poulter, Shane (2007)

Counselina

B.A., California State University, Pomona

M.A., California State University, Dominguez Hills

Preciado, Rosa M. (1975)

Psychology, Education

A.A., Mt. San Antonio College

B.A., California State University, Fullerton

M.A., University of California, Riverside

Prochaska, Cynthia Adam (1990)

Enalish, Literature & Journalism

B.A., M.A., University of California, Santa Barbara

Q

Ouinn, Barbara (2006)

Disabled Student Programs & Services B.A., California State University, Fullerton M.S.W., University of California, Los Angeles

Ouintana-Mullane, Kimberly (2004)

English, Literature & Journalism

A.A., Mt. San Antonio College

B.A., M.A., California State Polytechnic University, Pomona

R

Redinger, Larry L. (1975)

Dean, Natural Sciences

A.S., San Bernardino Valley College

B.S., California State University, Long Beach

M.S., Northern Arizona University

Reel, Ron (1988)

Communication

A.A., Bakersfield College

B.A., M.A., California State University, Fresno

Ph.D., Valley Christian University

Reille, Audrey (2006)

Center of Excellence

M.B.A., California State University, San Bernardino

Reinhart, Liesel (1997)

Communication

B.S., University of Colorado

M.P.S., Cornell University

Revell, Timothy (1999)

Biological Sciences

A.A., Ventura College

B.A., University of California, Santa Cruz

M.S., California State University, Fullerton

Ph.D., Loma Linda University

Rexach, Carmen (2005)

Biological Sciences

B.A., University of California, Los Angeles M.S., California State University, Stanislaus

Ph.D., University of California, Davis

Reyes, Mary-Ellen (1998)

Mental Health Technology

A.A., Chaffey College

Rickard, Malcolm (2008)

Physics

B.A., M.S., San Francisco University

Ph.D., University of Colorado

Richardson, Lanny (1995)

Air Conditioning & Welding

Rillorta, Linda C. (1989)

Sociology, Philosophy

A.A., Pasadena City College

B.A., M.A., Ph.D., University of Southern California

Ritz, Karol E. (1997)

Dance

B.A., University of California, Irvine M.A., California State University, Fullerton

Rivas, Hector (2007)

Commercial and Entertainment Arts

B.A., California Polytechnic University, Pomona M.B.A., Keller Graduate School of Management

Rivas, Tony M. (2005)

Counseling, EOP&S/CARE

A.A., Santa Ana College

B.A., San Jose State University

M.S., California State University, Long Beach

Robinson, Carolyn (2006)

Learning Assistance

B.S., California State Polytechnic, Pomona M.S.Ed., University of Southern California

Rogers, Bruce (1994)

Music

B.S., University of Connecticut

M.A., Claremont Graduate University

Rogus, Linda (2005)

Aeronautics and Transportation

A.S., Mt. San Antonio College

B.S., California State University, Los Angeles

Rogus, Robert (2001)

Aeronautics and Transportation

A.S., Mt. San Antonio College

B.S., California State University, Los Angeles

F.A.A. Certificates: Flight Instructor; Airplanes & Instruments: Commercial Pilot

Romero, Oscar (2007)

Nursina

A.A., Mt. San Antonio College

R.N., Los Angeles County - University of Southern

California School of Nursing

M.A., California State University, Fullerton/ University of California, Irvine

Rubenstein, Susie (2005)

Fine Arts

B.A., University of California, Santa Cruz

B.F.A., Kansas City Art Institute

M.F.A., Cranbrook Academy

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

Russell, Paul (1988)

Learnina 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

Sampat, Michelle (2007)

Learning Assistance

B.A., Pomona College

M.A., Claremont Graduate School

J.D., Whittier Law School

Sanchez, Andrew (2001)

Mental Health Technology

A.S., R.N., Mt. San Antonio College

Sanchez, Hector (2006)

Counseling, EOP&S

A.A., Glendale Community College

B.A., University of California, Los Angeles

M.S., University of La Verne

Sanchez, Juan (2005)

Physical Education

B.S., California State University, Los Angeles

M.Ed., University of La Verne

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) **Biological Sciences**

B.A., University of Montana

M.A., California State University, Fullerton

Schnurbusch, Karen (2002)

Physics & Engineering

B.S., University of California, Santa Barbara

M.S., University of Illinois, Urbana-Champaign

Sciore, Donald (1999)

Commercial and Entertainment Arts

B.F.A., California State University, Fullerton

Scott, Brian (2001)

Aaricultural 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)

Commercial and Entertainment Arts

B.A., California State University, Fullerton

Smith, James B. (1998)

Counselina

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

Sonnier, Greta (2008)

Business Administration

B.A., University of La Verne

M.A., California State Polytechnic University.

J.D., University of La Verne College of Law

Soto, Lina (2001)

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)

Learnina Assistance

B.A., University of California, Santa Barbara

M.A.. State University of New York at Fredonia

M.S., California State University, Fullerton

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.

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)

Sian Lanauaae

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)

Enalish, 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

Swartz, Pauline (2006)

Librarian

B.A., University of California, Santa Cruz MLIS, University of California, Los Angeles

M.A., Ph.D., University of South Carolina

Swift, Crystal (2008)

Communication

B.A., California Baptist University

M.A., Ball State University

Ph.D., Louisiana State University

Т

Takashima, Timothy (2000)

Mathematics, Computer Science

B.S., M.S., California State University, Long Beach

Tamayo, Jimmy (2002)

Mathematics, Computer Science

B.S., California State Polytechnic University, Pomona

M.S., University of California, Riverside

Tatoian, Vahe (1990)

Physics, Engineering

B.S., Yerevan University, Armenia

M.S., Drexel University

Tellez, April (2008)

History, Art History,

Geography & Political Science

B.A., M.A., University of California, Riverside

Terreri, Joseph P. (1989)

Mathematics, Computer Science

B.S., M.S., California State Polytechnic University. Pomona

Teske, Margaret (2002)

Coordinator, ESL & Intercultural Programs

B.S., University of Northern Colorado

M.S., Colorado State University

Thomas, Antoine (2006)

Counselina

B.A., University of California, Riverside M.S., California State University, Long Beach

Thomas, James D. (1998)

Enalish, 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)

Counselina

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

Tripp, Robin R. (1985)

English, Literature & Journalism B.A., M.A., California State University, Chico

Troxell, Cameron (2001)

Mathematics, Computer Science B.A., Gonzaga University M.S., University of La Verne

Trujillo, Tammy (1999)

Commercial and Entertainment Arts
A.A., Long Beach City College
B.A., California State University, Fullerton

Trull, Stephen Tyler (2001)

History, Art History, Geography, Political Science A.A., Mt. San Antonio College B.A., California State University, Fullerton M.A., University of California, Santa Barbara

Truttmann, Janet (2002)

Chemistry

B.A., University of California, San Diego Ph.D., California Institute of Technology

Tunstall, Christine M. (1990)

Disabled Student Programs & Services B.A., M.S., University of Michigan M.S., Capella University

U

Uranga, Jaime (2007)

Electronics & Computer Technology A.A., Mt. San Antonio College

Uyeki, Elizabeth Chisato (2007)

Librarian

B.A., Earlham College M.L.I.S., University of California, Los Angeles

Uyeno, Gary (1999)

Registered Veterinary Technology B.S., University of California, Davis D.V.M., Iowa State University

V

Vail, Deidre Tucker (1991)

Biological Sciences

B.S., California State Polytechnic University, Pomona

M.S., University of California, Irvine

Vela, Thomas (1991)

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

Visosky, Thomas (1980)

Agricultural Sciences

A.S., Mt. San Antonio College

B.S., M.S., California State Polytechnic University, San Luis Obispo

Ph.D., Michigan State University

Vitullo, John (2002)

Communication

B.A., Southern Utah University M.A., Ball State University

Vo, Tuan A. (2000)

Mathematics, Computer Science
A.A., San Bernardino Valley College
B.S., M.S., California State Polytechnic University,
Pomona

W

Wakefield, Jeffrey W. (2000)

Mathematics, Computer Science
B.S., University of California, Los Angeles
M.S., California State University, Long Beach

Walker, Christopher N. (1980)

Disabled Student Programs & Services B.A., California Lutheran College M.A., California State University, Northridge Ph.D., University of Iowa

Walker, Lori (2000)

Learning Assistance

B.S., University of California, Riverside M.A., Ph.D., Claremont Graduate University

Walker, Rebecca (2006)

Earth Sciences, Astronomy B.A., Hamilton College

M.S., University of Arizona

Ward, Elizabeth (1999)

Physical Education

B.A., California State University, Long Beach M.A., California State Polytechnic University, Pomona

Watanabe, Kathleen (1996)

Child Development

B.S., California State University, Los Angeles

Watanabe, Larry (1992)

Physical Education

B.S., California State University, Fullerton M.A., Azusa Pacific College

Weatherilt, Sandra (2001)

Consumer Science & Design Technologies B.A., M.A., California State University, Long Beach

Webb, Craig A. (1998)

Earth Sciences, Astronomy
B.A., B.S., Syracuse University, New York
M.S., Duke University

West, David (2005)

Aeronautics and Transportation A.S., Mt. San Antonio College

Whalen, Margaret F. (1989)

English, Literature & Journalism B.S., Jacksonville University M.A., University of Maine at Orono

Wiesner, Mary Rose (2002)

Respiratory Therapy

B.S., Northeastern University

Wilcher, Lance (2005)

Nursing

M.S.N., F.N.P., University of Southern California

Wilkerson, Jill K. (2001)

Disabled Student Programs & Services B.A., University of South Dakota M.S., Arizona State University

Wilkerson, Stephen C. (1989)

Music

B.A., Tulsa University

M.A., Pittsburgh State University

Williams, Bruce (1988)

English, Literature & Journalism B.A., University of California, Los Angeles M.A., Ph.D., Claremont Graduate School

Williams, Deborah (1992)

Mathematics, Computer Science
B.S., California State Polytechnic University,
Pomona
M.A., California State University, Fullerton

Williams, Stephen A. (1978)

Medical Services

A.A., Glendale College

A.S., Mt. San Antonio College (R.N.)

B.S., California State University, Los Angeles

M.Ed., University of La Verne

Williams Tyler, Jody (2002)

Chemistry

B.S., University of Evansville M.S., Ph.D., University of California, Irvine

Williamson, Kisha (2007)

Child Development

B.A., California State University, Long Beach M.S., University of La Verne

Wilson, Keith (2000)

Commercial and Entertainment Arts B.A., Lone Mountain College M.A., Stanford University

Wilson, Randall (1988)

Counseling

B.A., B.S., California State University, Fullerton M.A., University of California, Los Angeles

Wolde-Yohannes, Samuel (2001)

Sociology, Philosophy

B.A., M.A., Ph.D., Pontifical Gregorian University, Rome, Italy

Wolf, Phillip (1995)

Physics & Engineering
B.S., Harvey Mudd College

M.S., California State University, Los Angeles

Woolery, Emily (2000)

Librarian

B.A., Occidental College

M.L.I.S., University of California, Los Angeles

Wright, Carola Z. (2001)

Biological Sciences

B.S., Pharmacy School Minden, Germany Ph.D., University of California, Irvine

Wright, Joan Susan (2005)

Counseling-Basic Skills

B.A., M.S., California State University, Fullerton

Wydra, Susan (1992)

Mental Health Technology

A.S., Cypress College

B.S., Penn State University

M.S., California State University, Fullerton

Y

Yamagata-Noji, Audrey (1996)

Vice President, Student Services

B.A., M.S., California State University, Long Beach

Ph.D., Claremont Graduate School

York, Jean (1999)

Consumer Science & Design Technologies

B.S., California State Polytechnic University,

Pomona

M.P.H., University of California, Berkeley

Z

Zamora, Victor Y. (1998)

Computer Information Systems

B.A., California State University, Los Angeles

Zicree, Steven (2006)

Earth Sciences, Astronomy

B.A., Hamilton College

M.S., University of Arizona, Tucson

Ziolkowski, Tina (2006)

Medical Services

A.S., Mt. San Antonio College

Zuniga, Irma (1979)

Counseling

A.A., San Bernardino Valley Community College

B.A., University of California, Riverside

M.A., California State University, San Bernardino

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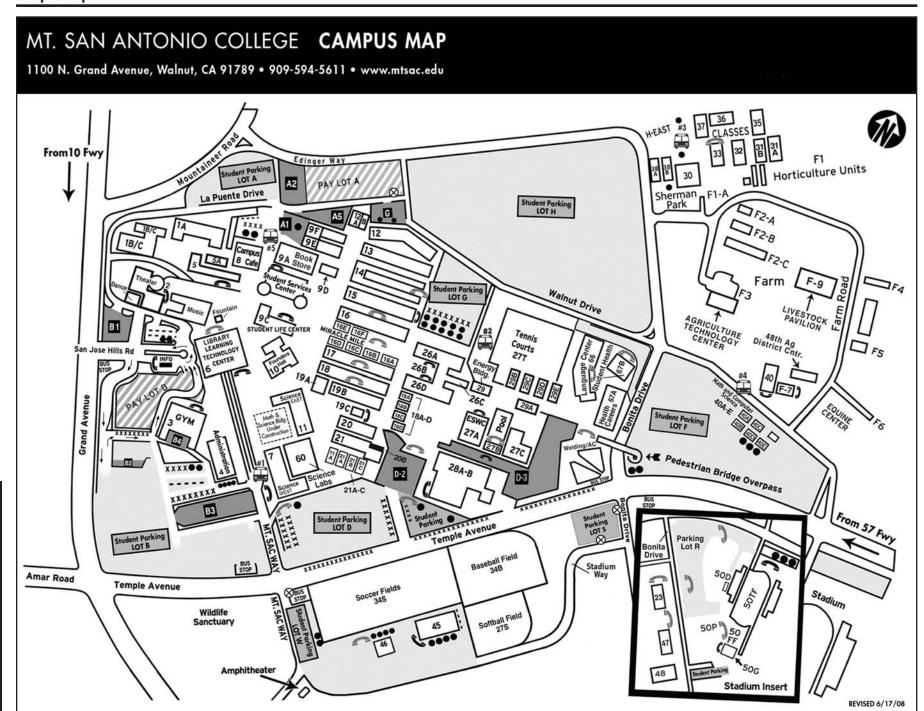
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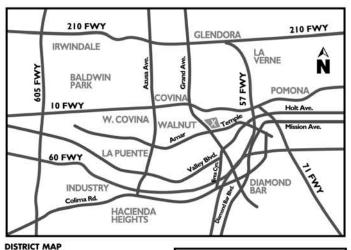
LEGEND FOR CAMPUS MAP
Administration 4
Academic Senate
Administrative Services
Community Education
Faculty Copy Center
Human Resources
Instruction Office
Mail Center Marketing & Communication
Parking Office
Research
Training Source
Admissions 16F
48th Agricultural District Office F10
Agricultural Sciences
Agricultural Technology Center F3
Animation Computer Lab
Animation Drawing Lab 1B-3
Art Center 1A/B
Art Computer Graphics Lab 1B-1
Art Gallery/Classrooms 1B/C
Arts Division Office 16
Auxiliary Services 9A & D
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Bookstore ("SacBookRac") 9A
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Communication Dept 298
Community Education Center 30
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Earth Science Lab
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Health Careers
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Heating/Air Conditioning 69
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Horticulture Units F1
Humanities/Social Sciences Division Office
Information & Educational Technology
Institutes & Teacher Prep 11A
Interior Design
Journalism
Landscaping/Irrigation Lab F2C
Language Learning Center 66
Learning Technology Center

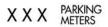
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Swine Bar	'n F4	1
	gy & Health on Office28A/E	3
Telecommi	unications23	3
Vivarium &	& Classroom F5A & E	3
Welding/	Air Conditioning 69	,
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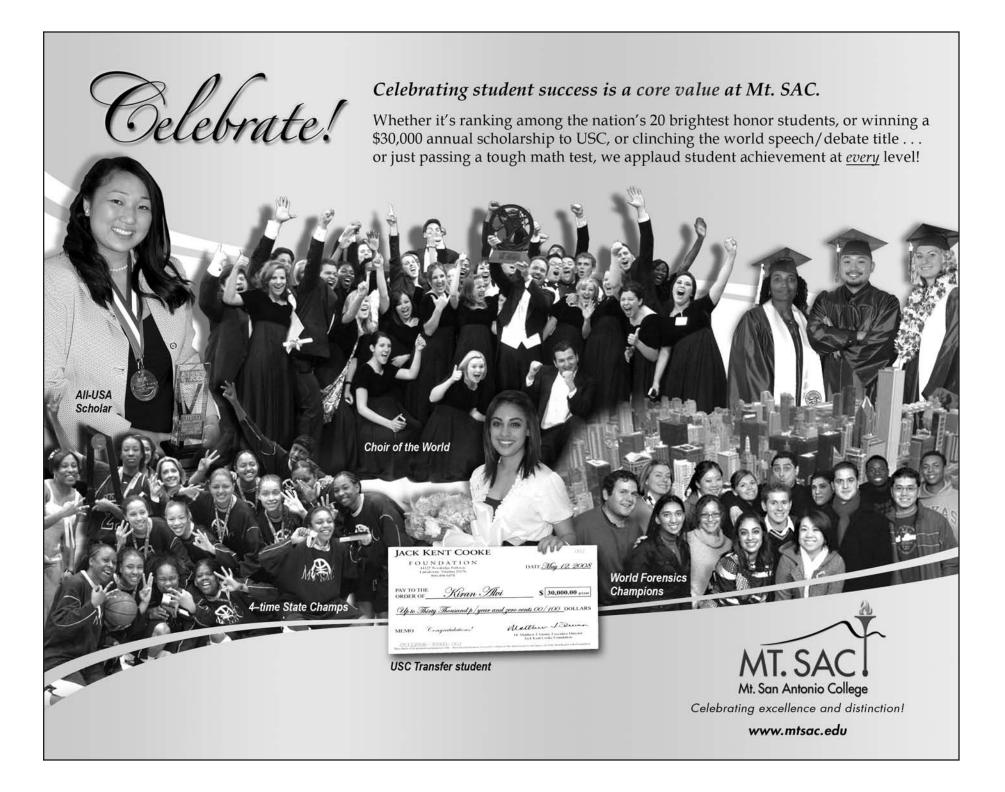


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Revised 6/17/08

Notes	

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