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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 2009-10 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 TTY# (909) 594-3447 (Hearing Impaired)

www.mtsac.edu

Building for the Future

As this catalog cover design illustrates, Mt. San Antonio College continues to build for the academic future of its students and the community-at-large. Not only are we transforming the campus into a more inviting, greener, and high-tech learning environment, we are also engaged in an ongoing effort to enrich our programs and services to meet the various needs of our diverse student population.

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 inter connected world. Our curriculum is in step with the fast-changing needs of today's dynamic employment sectors.

As the largest of California's 110 community colleges, Mt. SAC regards itself as the "College of Champions." In virtually every academic, athletic and cultural discipline, our students 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.

We remain committed to helping you build your future.

President & CEO

Fred Chyr, President
Dr. David K. Hall, Vice President
Judy Chen Haggerty, Esq., Clerk
Rosanne M. Bader, Member
Dr. Manuel Baca, Member
Xavier Padilla, Student Trustee



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2009-10 College Calendar

Fall 2009

Independence Day (campus closed)
International student admission application due for Fall Semester
Fall Semester Credit and Continuing Education registration opens
Residency determination date
Fall Semester begins
Last day to add a class
Last day to change residency for Fall Semester
Labor Day (campus closed)
Last day to withdraw without a "W" for 16-week classes
Last day to change grading option for 16-week classes
Last day to petition for Fall Semester graduation
Last day to withdraw from Fall Semester 16-week classes
International student application due for Winter Intersession
Veteran's Day (campus closed)
Winter Intersession registration opens
Thanksgiving Recess (campus closed)
International student application due for Spring Semester
"Book Buy Back" at SacBookRac
Final Exams
Fall Semester ends
Winter Recess for students

2009-10 College Calendar

Winter 2010

January 1, 2010	New Year's Holiday (campus closed)
January 4	Winter Intersession begins
January 18	Martin Luther King, Jr. Day (campus closed)
January 19	Spring Semester Credit and Continuing Education registration opens
February 12	Lincoln's Birthday (campus closed)
February 14	Winter Intersession ends
February 15	Washington's Birthday (campus closed)

Spring 2010

February 19	Flex/Staff Development Day
February 22	Spring Semester begins
March 5	Last day to add a 16-week class
March 19	Last day to withdraw without a "W" for 16-week classes
March 31	Cesar Chavez Day of Observance (campus closed)

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2009-10 College Calendar

Spring 2010 (continued)

May 7 May 7 May 31	Last day to withdraw from Spring Semester Last day to petition for Commencement Memorial Day (campus closed)
June 7 - 13 June 11 June 13	Final Exams (see schedule in Spring Schedule of Classes) Commencement Spring Semester ends

Summer 2010

June 28	Summer Intersession begins
July 4	Independence Day (campus closed)
August 8	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	
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*Accounting & Management	1
Advising	Express Stop
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*Consumer Science & Design Technologies	
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*Counseling & Advising Services	
CSEA 262	
Custodial Services 479	
*Dance	
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Distance Learning	
*Earth Sciences & Astronomy	
*Electronics & Computer Technology	
*English Literature & Journalism 470)6 *Paralegal

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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	
Vice President	Dr. David K. Hall
Clerk	Judy Chen Haggerty, Esq.
Member	Rosanne Bader
Member	Dr. Manuel Baca
Student Trustee	Xavier Padilla
College President & CEO	Dr. John S. Nixon

Administrative Services Extra Vice President, Administrative Services Michael C Associate Vice President Linda	t. 4230
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Associate Vice President Linda	Gregoryk
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Administrative Director, Auxiliary ServicesJa	y Devers
Director, Auxiliary Services Accounting	id Young
Director, Bookstore	
Director, Bursar's Office	
Manager, Custodial ServicesKen	•
Director, Facilities Planning and Management	
Assistant Director, Facilities, Planning and ManagementBecky	
Facilities Project Manager Roge	
Assistant Director, Fiscal Services	,
Director, Food Services/Satellite Operations	•
Director, Grounds and Transportation	
Director, Maintenance	
Director, Payroll	
Director, Public Safety Je	
Assistant Director, Public Safety	
Director, Purchasing	
Director, Safety, Health Benefits, and Risk Management	
Director, Technical Services	Eastham
Human Resources Ext	t. 4225
Interim Vice President, Human Resources	Niyamoto
Director, Human Resources	da Hoxie
Information and Educational Technology Ext	t. 4357
Chief Technology OfficerVictor	r Belinski
Director, Enterprise Applications Systems Sheryl	Hullings
Director, Academic Technology and Infrastructure	e Vickers
Assistant Director, Academic Technology and Infrastructure	ashpoush
President's Office Ext. 412	1/4215
Director, Marketing & Public AffairsClarenc	
Executive Director, Mt. SAC Foundation	d Morley

ADMINISTRATION (continued)	
Instruction	Ext. 4200
Vice President, Instruction	Dr. Virginia Burley
Dean, Instructional Services	
Dean, Arts Division	
Dean, Business Division	3
Associate Dean, Business Division	
Director, Child Development Center	
Dean, Humanities and Social Sciences Division	
Associate Dean, Humanities and Social Sciences Division	
Dean, Library and Learning Resources Division	
Director, Learning Assistance Center	
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, Continuing Education	
Director, Basic Skills	
Associate Director, Basic Skills	
Interim 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	
,,	
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	2
Coordinator, CalWorks/CARE	
Director, Assessment and Matriculation	•
Director, Career and Transfer Services	
Director, Disabled Student Programs and Services (DSP&S)	Grace Hanson

ADMINISTRATION (continued)

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, 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 and the Center of Excellence. 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
Small Business Development Center	Daniel Morales, 626-337-2101

INSTRUCTIONAL DIVISIONS (continued)

Continuing Education Division

Ext. 4220

Donna Burns, Dean

The Continuing 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. Continuing 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

Meghan Chen, Dean

Bailey Smith, Director, Learning Assistance Center

The Library and Learning Resources Division includes Learning Assistance, Library, Media Services, Tutorial 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
Tutorial Services	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. SAC's Physical Education Division has been a leader among community colleges for over 60 years. Our commitment to Physical Education, Athletics and Dance is exhibited by our dedication to the health and well being of our students and 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 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, LA84 Foundation 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. 6101. 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. Assistance is available in English, Spanish, Vietnamese, Chinese and Sign Language. Information is also available in alternative formats (Braille, enlarged text, e-text, etc.).

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."

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.

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

Burden of Proof

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

Residence Classification Appeal

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

Concurrent Enrollment for K-12 Students (Special Admits)

The Special Admit program is designed for high school sophomores, juniors and seniors (10th, 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 Special Admit program:

- 1. Be recommended by their high school principal or counselor;
- 2. Be approved to participate by their parents/quardian;
- Have a 3.0 cumulative high school grade point average or better to enroll in degree appropriate courses, or a 2.0 or better gpa for a vocational course;
- 4. Meet all course prerequisites and/or co-requisites;
- Sophomores and juniors will only be allowed to enroll in a single course. Seniors may enroll in two courses.

Special Admit application packets may be obtained in the Counseling Center or online at www.mtsac.edu/students/counseling/collegestarter.html

Only college level courses may be taken as part of the Special Admit program. Students needing to make up a high school deficiency can apply to participate in the High School Referral Program. Please go to the Continuing 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 Special Admit program.

Highly-gifted students enrolled in grades 9 and earlier may be considered for limited enrollment. To participate, students must meet all of the same criteria required for 10th, 11th and 12th grade Special Admit students.

All high school students will be required to attend a Special Admit orientation prior to being accepted for admission.

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.

^{2.} **Non-resident:** A "non-resident" student is one who has not resided in the State for more than one year prior to the residency determination date and who has not established legal residence or who is not eligible to establish California residency for tuition purposes.

^{*} 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 5. 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 2009-10 school year are as follows:

- Summer 2009 First Monday of April
- Fall 2009 First Monday of June
- Winter 2010 First Monday of November
- Spring 2010 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*.

Students who enrolled in the previous semester or session preceding the enrollment term are eligible to register for classes. Students may check their date and time to register at *http://my.mtsac.edu*.

Schedule of Classes

The Mt. SAC Schedule of Classes, which indicates intended course offerings and teaching assignments for both credit, noncredit and continuing education courses, is published each semester. The credit course offerings are found in the front of the schedule. The noncredit and continuing education course listing appears towards the back of the book and also includes the smaller noncredit/continuing education registration card. The combined Schedule of Classes is 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, a Health Services Fee, and for some classes Materials Fees for each semester at Mt. San Antonio College. These fees are subject to change. An optional Student Activities Fee is available for purchase for the Fall and Spring semesters. 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 online or at the Bursar's Office located in Building 9A.

Refund of Fees

To be eligible for a refund, students must drop their classes by the refund deadline for that class. The deadline can be found on their Student Schedule/Bill. If the student's class has been officially dropped, or cancelled by the College, the student will receive a refund check in the mail in approximately 45 days. Refund checks will be made payable to the student and sent to the mailing address on your student account. Please see the current Schedule of Classes for more refund information.

■ 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.

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 and have paid their fees for those classes will receive a refund check in the mail in approximately 45 days.

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 do not have a high school diploma, GED, a certificate of proficiency or its equivalent must demonstrate that they have the ability to benefit from an educational program at Mt. San Antonio College prior to receiving Title IV financial aid. To meet this requirement, you must have taken and passed the federally approved Ability to Benefit test (Wonderlic) that is conducted at the Assessment Center or satisfactorily completed 6 credit hours of coursework applicable toward a degree or certificate offered at Mt. SAC. For further information regarding the 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;
- 5. possess an Associate or higher degree from an accredited institution.

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:
- 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.

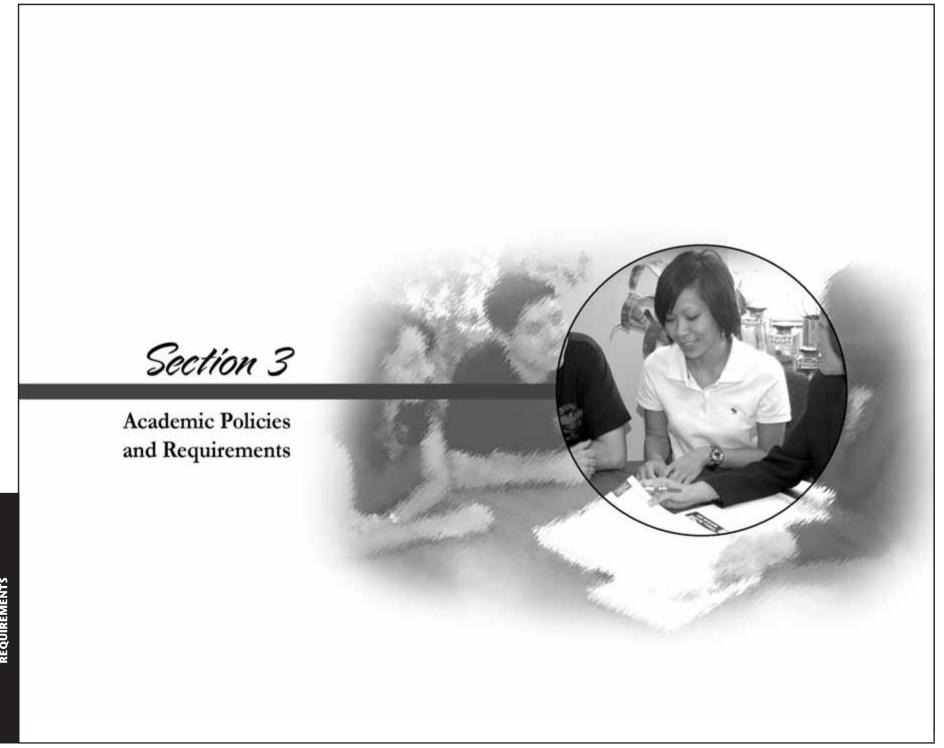
CHALLENGING PREREQUISITES AND COREQUISITES

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 Assessment Center in the Student Services Center.

- 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 Director of Assessment and Matriculation.

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.



ACADEMIC FREEDOM

It is the policy of Mt. San Antonio College to maintain and encourage freedom for its faculty, within the law, of inquiry, teaching and research, and the pursuit of knowledge. In the excercise of this right, the professor may discuss his/her subject or area of competence in the classroom, as well as other relevant matters, including controversial materials, so long as he/she distinguishes between personal opinions and what is contemporarily regarded as factual information by leading academicians in the discipline being discussed.

The professor shall use no material in any teaching assignment nor make any speech in order to incite students or others to unlawful acts or to create a clear and present danger to the students and/or the College and/or the community. Professors may not use the classroom to promote a particular religious belief (see also Board Policy BP 4030, and Administrative Policy AP 4030).

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, P, NP) or an incomplete mark for the course.

In short-term courses, students who withdraw or are dropped from class during the first 30% of the course will receive no notation on their permanent record. Students may drop short-term courses only through 60% 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," "Credit" or "Pass." 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 2009 semester, students who have recorded a substandard grade of either "D," "F," "No Credit" or "No Pass" will only be allowed to repeat the same course two times, for a total maximum enrollment of three times. 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.

Withdrawals without a mark of "W" are allowed during the first 3 weeks of a 16-week class in a semester or within the first 20 percent of a short-term course. Students shall be allowed a maximum of three withdrawals for a given course where a mark of "W" is posted for all three 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

<u>Primary Term:</u> 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.

Academic Policies and Requirements

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
- 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
- completes any units in a credit class at another accredited postsecondary institution; or
- receives a waiver in advance or approval of a petition for exceptional action because of extenuating circumstances.

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 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	
Pass	Passing (at least equivalent to awarded are not counted in d student's grade point average	etermining the	
NP Not Passing (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.)			

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. 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.

Pass/No Pass 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 Pass/No Pass (Pass = A, B, or C; NP = D, F). A few classes are offered for Pass/No Pass 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 Pass/No Pass 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 Pass/No Pass 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-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 Pass/No Pass classes is limited to a maximum of 16 units. Courses taken for Pass/No Pass 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, "NP" 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:

COLLEGE CREDIT FOR ADVANCED PLACEMENT (AP) TESTS				
Exam	CSU GE Units	CSU Units	IGETC Units	UC Units
Art History	3 semester (Area C1 or C2)	6 semester	3 semester (Area 3A or 3B)	8 quarter / 5.3 semester
Art (Studio)	N/A	3 semester	N/A	8 quarter / 5.3 semester
Biology	4 semester (Area B2 and B3)	6 semester	4 semester (Area 5B with lab)	8 quarter / 5.3 semester
Calculus AB	3 semester (Area B4)	3 semester*	3 semester (Area 2A)	4 quarter / 2.7 semester**
Calculus BC	3 semester (Area B4)	6 semester*	3 semester (Area 2A)	8 quarter / 5.3 semester**
			,	xam may be used toward transfer
Chamista	4 semester (Area B1 and B3)	Competer	4 semester (Area 5A <i>with lab</i>)	uarter/5.3 semester units for both
Chemistry		6 semester		8 quarter / 5.3 semester
Chinese Language & Culture	3 semester (Area C2)	6 semester	3 semester (Area 3B and 6A)	8 quarter / 5.3 semester
Computer Science A	N/A	3 semester^	N/A	2 quarter / 1.3 semester^^
Computer Science AB	N/A	6 semester^	N/A	4 quarter / 2.7 semester^^
				ximum one exam toward transfer uarter/2.7 semester units for both
Economics — Macroeconomics	3 semester (Area D2)	3 semester	3 semester (Area 4B)	4 quarter / 2.7 semester
Economics — Microeconomics	3 semester (Area D2)	3 semester	3 semester (Area 4B)	4 quarter / 2.7 semester
English — Language & Composition	3 semester (Area A2)	6 semester	3 semester (Area 1A)	8 guarter / 5.3 semester@
English — Literature & Composition	6 semester (Area B2 and C2)	6 semester	3 semester (Area 1A or 3B)	8 guarter / 5.3 semester@
	,		@8 auarter/5.3	semester units maximum for both
Environmental Science	4 semester	4 semester	3 semester (Area 5A with lab)	4 guarter / 2.7 semester
French Language	3 semester (Area C2)	6 semester	3 semester (Area 3B and 6A)	8 quarter / 5.3 semester
French Literature	3 semester (Area C2)	6 semester	3 semester (Area 3B and 6A)	8 quarter / 5.3 semester
German Language	3 semester (Area C2)	6 semester	3 semester (Area 3B and 6A)	8 quarter / 5.3 semester
Government & Politics — Comparative	3 semester (Area D8)	3 semester	3 semester (Area 4H)	4 quarter / 2.7 semester
Government & Politics — U.S.	3 semester (Area D8 and US 2)+	3 semester	3 semester (Area 4H)	4 quarter / 2.7 semester
dovernment a rontes 0.5.	· , , , , , , , , , , , , , , , , , , ,		nment requirement. Student can satisfy t	<u> </u>
History — European	3 semester (Area C2 <i>or</i> D6)	6 semester	3 semester (Area 3B <i>or</i> 4F)	8 quarter / 5.3 semester
History — U.S.	3 semester (Area C2 or D6)	6 semester	3 semester (Area 3B or 4F)	8 quarter / 5.3 semester
History — World	3 semester (Area C2 or D6)	6 semester	3 semester (Area 3B or 4F)	· · · · · · · · · · · · · · · · · · ·
	3 semester (Area D5)	3 semester	. , , , , , , , , , , , , , , , , , , ,	8 quarter / 5.3 semester
Human Geography			3 semester (Area 4E)	4 quarter / 2.7 semester
Italian Language & Culture	3 semester (Area C2)	6 semester	3 semester (Area 3B and 6A)	8 quarter / 5.3 semester
Japanese Language & Culture	3 semester (Area C2)	6 semester	3 semester (Area 3B and 6A)	8 quarter / 5.3 semester
Latin — Vergil	3 semester (Area C2)	3 semester	3 semester (Area 3B and 6A)	4 quarter / 2.7 semester
Latin — Literature	3 semester (Area C2)	6 semester	3 semester (Area 3B and 6A)	4 quarter / 2.7 semester
Music Theory	3 semester (Area C1)	6 semester	N/A	8 quarter / 5.3 semester
Physics B	4 semester (Area B1 and B3)	6 semester#	4 semester (Area 5A with lab)	8 quarter / 5.3 semester##
Physics C — Mechanics	4 semester (Area B1 and B3)	4 semester#	3 semester (Area 5A with lab)	4 quarter / 2.7 semester##
Physics C — Magnetism	4 semester (Area B1 and B3)	4 semester#	3 semester (Area 5A with lab)	4 quarter / 2.7 semester##
		#Maximum 4 semester units toward GE and 6 semester units toward transfer ##Maximum 8 quarter/5.3 semester units for both		
Psychology	3 semester (Area D9)	3 semester	3 semester (Area 4I)	4 quarter / 2.7 semester
Spanish Language	3 semester (Area C2)	6 semester	3 semester (Area 3B and 6A)	8 quarter / 5.3 semester
Spanish Literature	3 semester (Area C2)	6 semester	3 semester (Area 3B and 6A)	8 quarter / 5.3 semester
Statistics	3 semester (Area B4)	3 semester	3 semester (Area 2)	4 quarter / 2.7 semester
	5 Semester (med 5 i)	5 50165161	5 Semester (riica L)	. quarter, 217 seriester

IB Examination	Number of Units Awarded to Mt. SAC General Education
Biology	
Business Management	
	5 semester units toward Area B1
	5 semester units toward Area C2
Computer Science	
·	
Design Technology	NA
=	
	5 semester units toward Area C2
Geography	5 semester units toward Area D2
	5 semester units toward Area C2 or D2
	5 semester units toward Area C2 or D2
Language A1	
English	5 semester units toward Area A1
French	5 semester units toward Area C2
Language A2/B	5 semester units toward C2
	5 semester units toward Math Proficiency
Music	5 semester units toward Area C1
Philosophy	5 semester units toward Area C2
	5 semester units toward Area D2
Theatre Arts	5 semester units toward Area C1
Visual Arts	

Rules and Regulations

- Credit by Examination will be granted only for those courses which have been so designated by the departments.
- 2. Any grade received for Credit by Examination will be entered on the student's permanent record with a notation of "Credit by Comprehensive Exam."
- 3. A student may petition for Credit by Examination provided:
 - a. The student has been registered at Mt. San Antonio College.
 - 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.
- The student may obtain the petition for Credit by Examination from the Division Office.
- The department will establish written guidelines by which the eliqibility of a student to take such an examination is determined.

- 6. The Department will assign a grade depending on the results of the examination and submit the form "Petition for Credit by Examination" to Admissions and Records.
- 7. The student may not use Credit by Examination to satisfy the residency requirement for the degree.

A list of courses for Credit by Examination is available at each Division Office, the Instruction Office, 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.

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

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

Credit for Extra Institutional Learning

Philosophical Basis

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

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).

- 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.
- Initial: (First time membership) Must have completed 12 degreeappropriate units in a maximum of three (3) semesters with a degree appropriate cumulative grade point average of 3.0 or higher.
- Continuing: (Previous membership) Must have achieved for the previous semester a degree appropriate grade point average of 3.0 or higher OR have maintained a degree appropriate cumulative grade point average of 3.0 or higher.

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

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

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

Phi Theta Kappa

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

- Full and part-time students who have completed 12 appropriate degree units with a 3.5 grade point average at an accredited institution.
- 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-1680.

Academic Policies and Requirements

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
- 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

- 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
 - 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
 - Academic occurs when the student in their consecutive semester continues to have a cumulative grade point average below 2.0. or
 - 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.
- A time period of at least two years must have elapsed since the end of the term of substandard work to be disregarded.
- Academic renewal will apply only to substandard grades: D, F, and NC
- E. The permanent academic record shall be annotated in such a manner that all work remains legible, insuring a true and complete academic history.
- F. Mt. San Antonio College does not guarantee that academic renewal will be honored by institutions outside of the District. This determination will be made by the transfer institution.
- G. Students requesting academic renewal must file a petition in the Admissions and Records Office. Students should consult with a counselor prior to filing this petition.

Transcripts

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

Challenge of Educational Records

- Any student may file a written request with the Records Officer
 of the District (Dean, Enrollment Management) to remove
 information recorded in the student's records which is alleged to
 be: 1) inaccurate; 2) an unsubstantiated personal conclusion or
 inference; 3) a conclusion or inference outside of the observer's area
 of competence; or 4) not based on the personal observation of the
 named person with the time and place of the observation noted.
- If the student is not satisfied with the determination made by the Dean, Enrollment Management, the student may utilize the existing college student grievance process (p. 259).



Section 4

Student Services and Student Life

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.
 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, ASPIRE 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.

Career and Transfer Services Student Services Center, Ext. 4510

Career and Transfer Services 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 Career and Transfer Services for employment assistance, current students are strongly encouraged to visit Career and Transfer Services while they are still attending.

Counseling Center Student Services Center, Ext. 4380

Students can take advantage of educational planning, career exploration and decision-making, and other services offered through the Counseling Center 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 timelimited space (without having to observe the time limit specified). Students must ensure that the placard or license plate is displayed properly. DSP&S highly recommends that students visit our department to determine if there are any other services that may provide assistance while they attend Mt. San Antonio College.

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

CalWORKs (California Work Opportunities and Responsibility to Kids)

The CalWORKs Programs at Mt. SAC was designed to provide educational support for single or married parents who are recipients of Temporary Assistance to Needy Families (TANF) benefits. In order to receive services students must receive TANF benefits for themselves and their children. The CalWORKs Office assists students in meeting their Welfare to Work 32/35 hour participation requirements while achieving their personal and educational goals. A variety of support services are provided to facilitate students' achievement of their AA degree or a professional certificate.

Support services include:

- education planning
- counseling
- case management
- tutoring
- personal development workshops
- job development/placement assistance
- advocacy
- liaison between student and GAIN Services Workers and Eligibility Worker at County Office
- payment for required books and supplies
- work-study*
- childcare*

For more information, visit www.mtsac.edu/students/calworks

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 or equivalent. This requirement can be met by demonstrating the ability to benefit by passing a federally approved Ability to Benefit test or by completing six degree/certificate applicable units. 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.

^{*}Based upon adequate funding

Student Services and Student Life

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
- State CAL Grants
- Chafee Grant (for Foster youth)
- Federal William D. Ford Direct Loan Program

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 quests 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 aranted 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 *Catalog*.

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

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

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.

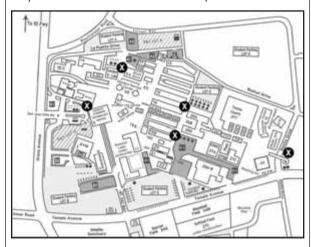
For information concerning registration dates and times, those interested should consult the latest Mt. San Antonio College *Schedule of Classes* or contact the Child Development Center at Ext. 4920.

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 SacBookRac 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 the latest browser like Firefox, Netscape Navigator or Internet Explorer, 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:

- 1. 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:
 - a. Assist the student in identifying new or expanded on-the-job learning objectives.
 - 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.
- 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 61, Room 1318

Offers free tutoring to Mt. SAC students currently enrolled in Math 50 through Math 71. Resources for checkout include videos, calculators, textbooks and solutions manuals.

Transfer Math Activities Resource Center (T-MARC), Building 61, Room 1314

The T-MARC offers free math tutoring to Mt. SAC students currently enrolled in Math 100 and above. A variety of resources for in-lab use and for take-home use are available.

Instruction and Learning Resources

Tech Ed Resource Center (TERC), Building 28B, Room 108

The Tech Ed Resource Center offers basic math, reading and writing assistance to all students enrolled in any technology or health course within the Technology and Health Division. Students are encouraged to drop in and receive assistance with instructors and tutors or study independently. In-center check out materials include: text books, calculators, rulers and paper supplies.

Additional support services include:

- Computer use
- Study groups
- Career workshops
- Priting capability
- Assessment testing
- Individualized Education Plans
- Applied activies
- And more!

For additional information, please contact TERC at ext. 4597.

LIBRARY AND LEARNING RESOURCES

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

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

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

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

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

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

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

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

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

COMPUTER AIDED GRAPHICS. VISUAL ARTS AND DESIGN PROGRAMS

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

ARCHITECTURE & ENGINEERING DESIGN TECHNOLOGY DEPARTMENT

Architectural Technology

A.S. Degree & Certificates

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

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

Engineering Design Technology

A.S. 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.

COMMERCIAL AND ENTERTAINMENT ARTS DEPARTMENT (CONT.)

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*)

MATHEMATICS DEPARTMENT

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)

CAMPUS FACILITIES

Art Gallery Building 1B, Ext. 4328

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

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

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

Athletic Facilities, Ext. 4630

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

Auxiliary Services, Building 9D, Ext. 4470

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

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

Bookstore (SacBookRac) Building 9A, Ext. 4475

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

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

Refund Policy

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

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

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

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

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

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

Farm, Ext. 4540

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

Food Services

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

Campus Café Building 8, Ext. 4105

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

Common Grounds Building 8, Ext. 4180

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

Mountie Grill Building 19C, Ext. 4624

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

Convenience Stores

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

Mountie Stop Building 9A, Ext. 4497

Express Stop Building 16A, Ext. 4142

Quick Stop Building 40, Ext. 6216

Prime Stop Building 61

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 216-224.

CERTIFICATES OF ACHIEVEMENT			
CSU General Education – Breadth	Children's Program Certificate:		
IGETC	General – Level III		
Accounting	Children's Programs Certificate:		
Accounting – Computerized	Small Business Management		
Accounting — Financial Planning	Computer and Networking		
Accounting — Managerial	Computer and Networking Technology Level I		
Administrative Assistant Level III	Computer and Networking		
Air Conditioning and Refrigeration	Technology Level II		
Aircraft Powerplant Maintenance	Computer Graphics		
Technology – Day	Design/Photography		
Aircraft Powerplant Maintenance	Computer Systems Technology		
Technology — Evening	Construction Inspection		
Airframe Maintenance Technology — Day	Consumer Services		
Airframe Maintenance Technology — Evening34	Correctional Sciences		
Alcohol/Drug Counseling35	Educational Paraprofessional — Level II		
Animation – Digital 2-Dimensional	Electronic Systems Technology — Level II		
Animation — Digital 3-Dimensional	Electronics and Computer		
Animation – Traditional	Engineering Technology		
Architectural Technology — Level I	Electronics Communications		
Architectural Technology — Technology	Electronics Technology		
Concentration Level II	Emergency Medical		
Architectural Technology — Technology	Technician — Paramedic (EMT-P)		
Concentration Level III	Engineering Design Technology Level I 44		
Architectural Technology — Design	Engineering Design Technology Level II		
Concentration Level II	Engineering Design Technology Level III 44		
Architectural Technology — Design	Escrow Management44		
Concentration Level III	Family Child Care		
Business: Human Resource	Fashion Design Level I		
Management — Level II	Fashion Design Level II		
Business: Human Resource	Fashion Merchandising — Level II		
Management – Level III	Fire Technology45		
Business: International – Level II	Horse Ranch Management		
Business: International — Level III	Hospitality: Catering		
Business: Management – Level II	Hospitality: Hospitality		
Business: Management – Level III	Management – Level II		
Business: Retail Management – Level II	Hospitality: Restaurant		
Business: Retail Management — Level III	Management – Level II		
Business: Small Busines	Infant/Toddler Development		
Management – Level II	Interior Design Level I — Merchandising		
Management — Level III	Interior Design Level II — Design		
Children's Program Certificate: Administration	Level III — Professional Designation		
Children's Program Certificate:	Interior Landscaping		
General – Level II	Kitchen and Bath Design		
General Level II	menen und butil besign		

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ŀ	CERTIFICATES OF ACI	HIEVEMENT (continued)			
l	Landscape and Park Maintenance	Radio Broadcasting: On the Air51			
l	Landscape Design and Construction 47	Real Estate51			
l	Landscape Equipment Technology47	Real Estate Appraisal51			
l	Landscape Irrigation	School Age Child – Specialization			
l	Law Enforcement	Sign Language/Interpreting52			
l	Legal Office Specialist	Sports Turf Management52			
l	Livestock Management	Television Production52			
l	Manufacturing Technology	Theatrical Costumer			
l	Marketing Management	Tree Care and Maintenance			
l	Medical Office Specialist	Water Technology53			
l	Mental Health	Web Page Design53			
l	Technology — Psychiatric Technician 49	Welder: Licensed53			
l	Microcomputer Productivity Software50	Welder: Automotive			
l	Nursery Management50	Welding, Cutting & Modification53			
l	Park Management	Welder: Gas Tungsten ARC Welding53			
l	Pet Science50	Welder: Semiautomatic ARC Welding53			
l	Photography50				
l	Programming in C++50				
l	Programming in Visual BASIC50				
١	Public Works/Landscape Management51				
١	Radio Broadcasting: Behind the Scenes51				
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SKILLS CEF	RIIFICALES
Accounting – Bookkeeping54	Educational Paraprofessional – Level I57
Accounting – Payroll	Electronic Assembly and Fabrication57
Administrative Assistant Level I	Electronic Systems Technology — Level I 58
Art: Aesthetics for Technology54	Emergency Medical Technician — Level I
Athletic Trainer Aide I	Fashion Design — Computer Aided
Business: Human Resource	Fashion Merchandising — Level I
Management – Level I	Fire Administration
Business: International – Level I	Fire Management59
Business: Management – Level I	Fitness Specialist/Personal Trainer
Business: Retail Management – Level I	Foster Care
Business: Small Business	Gallery Design/Operation and Art Profession 59
Management – Level I	Geographic Information Systems
Business Workplace Competencies	Hospitality: Food Services
Children's Program	Hospitality: Hospitality
Certificate: General — Level I	Management – Level I 60
CIS Professional Certificate	Hospitality: Restaurant
in C# Programming55	Management – Level I 60
CIS Professional Certificate	Information and Operating Systems Security 60
in C++ Programming	Introduction to Computer
CIS Professional Certificate in Database	Information Technology
Management – Microcomputers	LVN 30 Unit Option — Career Mobility Track 60
CIS Professional Certificate	Machine Operator
in Java Programming56	MasterCAM
CIS Professional Certificate in LINUX	Nutrition Program Assistant – Level I
CIS Professional Certificate	Nutrition Program Assistant – Level II:
in Network Security	Child Program Emphasis
CIS Professional Certificate in Networking	Nutrition Program Assistant — Level II:
CIS Professional Certificate in Object-Oriented	Weight Management Program Emphasis 61
Design & Programming55	Parametric Solid Modeling
CIS Professional Certificate in Oracle	SurfCAM
CIS Professional Certificate in SOA	Welding
and Web Services	
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CIS Professional Certificate	
in Telecommunications	
CIS Professional Certificate	
in Visual Basic Programming 57	
CIS Professional Certificate	
in Web Programming57	
CIS Professional Certificate in Windows Operating	
System Administration	
Coaching	
Culinary Arts — Level I	
Data Entry	
.,	

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 aenerally 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

Accounting

Accounting and Ma nagement Department Certificate T0502

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 Reauired courses:

Completion of the Accounting: Financial Plannina 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	4.0		
	<u>or</u>			l
BUSA 58	Federal Income Tax Law	3.0		l
BUSA 75	Using Microcomputers in Financial Accounting	1.0		
	<u>or</u>			l
BUSA 81	Work Experience in Accounting	1.0		l
BUSA 76	Using Microcomputers in Managerial Accounting	1.0		
	or			l
BUSA 81	Work Experience in Accounting	1.0		l
BUSO 25	Business Communications	3.0	CSU	
Plus the fo	llowing courses:			l
BUSA 21	Cost Accounting, or	4.0		l
BUSA 58	Federal Income Tax Law	3.0		l
BUSA 52	Intermediate Accounting	3.0		l
BUSA 70	Payroll and Tax Accounting	3.0		l
BUSM 20	Principles of Business	3.0	CSU,UC	
	Total Units	30.0	- 32.0	
Option BUSA 21 or BUSA 58: Take whichever course you				

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

Accounting - Computerized Accounting and Management Department Certificate L0503

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 Reauired courses:

Completion of the Accounting - Bookkeeping Certificate (0.10 Unite) as follows:

(9-10 Units)	(9-10 Units) as follows:			
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 fol	lowing 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				
Solort 3 5 I	Solort 3 5 Units from			

Select 3.5 Units from:				
BUSA 81	Work Experience in Accounting	1.0		
CISB 11	Computer Information Systems	3.5	CSU,UC	
CISB 13	Microsoft Windows	2.0	CSU	
CISB 21	Microsoft Excel	4.0		
CISW 11	Introduction to Internet Technologies	4.0	CSU	
COMP 11	Internet Research for Business	2.0	CSU	
COMP 20	Microsoft Word	4.0		
	Total Units	18.5	19.5	

Accounting - Financial Planning Accounting and Management Department Certificate L0599

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 L0533

The Accounting - Managerial Accounting Certificate provides basic accounting skills and knowledge concentrating in the area of managerial accounting. This prepares the 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.

Requirements for the Certificate Required courses

neyuneu c	ourses.		
BUSA 7	Principles of Accounting - Financial	5.0	CSU,UC
BUSA 8	Principles of Accounting - Managerial	5.0	CSU,UC
BUSA 21	Cost Accounting	4.0	
BUSA 75	Using Microcomputers in Financial Accounting	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 L0514

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: **Business English** BUSO 5 3.0 4.0 CSU COMP 1 Computer Keyboarding COMP 1A Computer Keyboarding 2.0 CSU and COMP 1B Computer Keyboarding 2.0 CSU COMP 12 Office Computer Applications 4.0 CSU,UC CISB 15 Microcomputer Applications 4.0 CSU,UC

3.0

3.0 CSU

Plus the following courses:

COMP 28 Office Management Skills

Level II as a	follows:
BUSO 25	Business Communications

	Total Units	28.0
COMP 68	Transcription Techniques	3.0
	Professional	
COMP 20	Word for the Business	4.0
	Keyboarding	
COMP 2	Intermediate Computer	4.0

Administrative Assistant - Level III Office Technology Department Certificate T0517

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
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	

Required courses:

Completion of the Administrative Assistant - Level II course work (14 units) as follows: BUSO 25 Business Communications 3.0 CSU

Dluc the fo	llouing courses.		
COMP 68	Transcription Techniques	3.0	
COIVIP 20	Professional	4.0	
COMP 20	Keyboarding Word for the Business	4.0	
COMP 2	Intermediate Computer	4.0	
BUSO 25	Business Communications	3.0	

Plus the following courses:

Level III as	Level III as Tollows:			
BUSO 26	Oral Communications for Business	3.0		
BUSO 96A	Business Vocabulary	1.5		
COMP 11	Internet Research for Business	2.0	CSU	
COMP 13	Using Web Page Software	4.0	CSU	
COMP 60	Business Publications Using Desktop Publishing Softwa	4.0 re	CSU	
COMP 150	Basic PowerPoint	1.0		
	<u>or</u>			
COMP 50	Desktop Presentations	4.0	CSU	

43.5 - 46.5

Using PowerPoint

Total Units

Air Conditioning and Refrigeration Air Conditioning, Water & Welding Technologies Certificate T0909

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 Refrigera	tion
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 Refriger	ation
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 Refriger	ation
AIRC 32A	Air Properties and Measurement	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

Aircraft Powerplant Maintenance Technology - Day

Aircraft Maintenance Technician & Manufacturing Technology Certificate T0982

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 of 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	13.0	CSL
AIRM 65B	Aircraft Powerplant Maintenance Technology	13.0	
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	41.0	

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 Technician & Manufacturing Technology Certificate T0952

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 of 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:*

neguneaco	ui scs.	
AIRM 70A	Aircraft Maintenance Electricity and Electronics	3.0
AIRM 70B	Aircraft Maintenance Electricity and Electronics	3.0
AIRM 71	Aviation Maintenance Science	6.0
AIRM 72	Aviation Materials and Processes	1.5
AIRM 73	Aviation Welding	1.5
AIRM 95A	Aircraft Powerplant Maintenance Technology	3.0
AIRM 95B	Aircraft Powerplant Maintenance Technology	3.0
AIRM 96A	Aircraft Powerplant Maintenance Technology	3.0
AIRM 96B	Aircraft Powerplant Maintenance Technology	3.0
AIRM 97A	Aircraft Powerplant Maintenance Technology	3.0

AIRM 97B	Aircraft Powerplant Maintenance Technology	3.0
AIRM 98A	Aircraft Powerplant Maintenance Technology	3.0
AIRM 98B	Aircraft Powerplant Maintenance Technology	3.0
	Total Units	39.0

Recommended Electives:

ueu Liettives.
Aircraft Maintenance Technology - Work Experience
Lab Studies in Aircraft Maintenance Technology
Lab Studies in Aircraft Maintenance Technology
Technical Engineering Drawing II
Survey of Electronics
Technical Mathematics
- Manufacturing Applications
Physics

Airframe Maintenance Technology - Day

Aircraft Maintenance Technician & Manufacturing Technology Certificate T0991

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 of Science Degree or a Certificate. Excellent opportunities for employment exist in this area of training. Certain administrative, quality control, and flight personnel careers require the applicant to hold a valid A & P Certificate.

This program offers a day (full-time) or evening (part-time) program option. The only difference between the two options is the course numbering and time required to complete the program. Day program courses AIRM 66A and 66B are equivalent to evening program courses AIRM 90A, 90B, 91A, 91B, 92A, 92B, 93A, and 93B.

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

Requirements for the Certificate *Required courses:*

AIRM 66A Airframe Maintenance

13.0 CSU

	Total Units	41.0
AIRM 73	Aviation Welding	1.5
AIRM 72	Aviation Materials and Processe	s 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	13.0
	Technology	

Recommended Electives:

AIRM 74	Aircraft Maintenance Technology - Work Experience
AIRM 80	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 - Evening

Aircraft Maintenance Technician & Manufacturing Technology Certificate T0981

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 of Science Degree or a Certificate. Excellent opportunities for employment exist in this area of training. Certain administrative, quality control, and flight personnel careers require the applicant to hold a valid A & P Certificate.

This program offers a day (full-time) or evening (part-time) program option. The only difference between the two options is the course numbering and time required to complete the program. Day program courses AIRM 66A and 66B are equivalent to evening program courses AIRM 90A, 90B, 91A, 91B, 92A, 92B, 93A, and 93B.

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

Requirements for the Certificate Required courses:

AIRM 70A	Aircraft Maintenance Electricity and Electronics	3.0
AIRM 70B	Aircraft Maintenance Electricity and Electronics	3.0
AIRM 71	Aviation Maintenance Science	6.0
AIRM 72	Aviation Materials and Processes	1.5
AIRM 73	Aviation Welding	1.5
AIRM 90A	Airframe Maintenance Technology	3.0
AIRM 90B	Airframe Maintenance Technology	3.0
AIRM 91A	Airframe Maintenance Technology	3.0
AIRM 91B	Airframe Maintenance Technology	3.0
AIRM 92A	Airframe Maintenance Technology	3.0
AIRM 92B	Airframe Maintenance Technology	3.0
AIRM 93A	Airframe Maintenance Technology	3.0
AIRM 93B	Airframe Maintenance Technology	3.0
	Total Units	39.0

Recommended Electives:

AIRM 74	Aircraft Maintenance Technology - Work Experience
AIRM 80	Lab Studies in Aircraft Maintenance Technology
	manitemance recimology
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 T2101

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.

Requirements for the Certificate Required core 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 Reco	3.0 very	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 skill courses:

AD 8	Group Process and Leadership	3.0
AD 9	Family Counseling	3.0
AD 10	Client Record and Documentati	on 1.5
AD 11	Techniques of Intervention	3.0
	and Referral	

Required field work courses:

AD 13	Internship/Seminar	3.5	CSU
AD 14	Advanced Internship/Seminar	3.5	CSU
PLUS			

Calant tour (2)

Select two (2) courses from:					
CHLD 10	Child Growth and Development	3.0	CSU,UC		
CHLD 10H	<u>or</u> Child Growth and Development - Honors	3.0	CSU,UC		
	<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, 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 T1011

The Digital 2-D Certificate provides training for creative careers that integrate animation with video, audio, graphics and special effects for Websites, broadcast, film, presentation or mobile content.

The Animation Program offers an integrated/interdisciplinary approach to prepare students to meet current and future job market demands. The student will be given a balanced blend of art and technology-based skills which are essential for today's careers in animation. The program offers an A.S. Degree and three certificates. Course content is driven by industry needs in order to provide the student with the best possible preparation for a career in animation.

Requirements for the Certificate Required courses:

ANIM 101	Drawing - Gesture and Figure	3.0	CSU
ANIM 104	Drawing Fundamentals	3.0	CSU
ANIM 108	Principles of Animation	3.0	CSU
ANIM 115	Storyboarding	3.0	
ANIM 116	Character Development	1.5	

ANIM 119	Portfolio	1.5	
	<u>or</u>		
ARTC 66	Portfolio	3.0	
ANIM 120	Script Development for Animatic	n3.0	
ANIM 172	Motion Graphics With After Effect	ts3.0	
ANIM 175	Web Animation With Flash	3.0	
ARTC 70	Computer Graphics: Introduction	3.0	CSU
ARTC 74	Computer Graphics: Web Design	3.0	CSU
ARTD 17A	Drawing: Life	3.0	CSU,UC
	Total Units	33.0	- 34.5

Recommended Electives:

PHOT 10

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
ANIM 148	Demo-Reel
ARTD 16	Drawing: Perspective
ARTD 20	Design:Two Dimensional

Beginning Photography

Animation - Digital 3-Dimensional Commercial and Entertainment Arts Certificate T1012

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:

nequireaco	Jui ses.		
ANIM 101	Drawing - Gesture and Figure	3.0	CSL
ANIM 104	Drawing Fundamentals	3.0	CSL
ANIM 108	Principles of Animation	3.0	CSL
ANIM 115	Storyboarding	3.0	
ANIM 116	Character Development	1.5	
ANIM 130	Introduction to 3-D Computer Animation	3.0	
ANIM 132	Modeling, Texture Mapping and Lighting	3.0	
ANIM 134	Visual Effects I: Dynamics	1.5	

	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	

Programs of Study Leading to a Certificate

Recommended Flectives:

ARTD 20

PHOT 10

ARTS 41A

necommen	lecommended Liectives.			
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			
ANIM 172	Motion Graphics With After Effects			
ANIM 175	Web Animation With Flash			
ARTD 16	Drawing: Perspective			
ARTD 17B	Drawing: Life			

Animation - Traditional Commercial and Entertainment Arts Certificate T1010

Sculpture: Life

Design: Two Dimensional

Beginning Photography

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.

Requirements for the Certificate Required courses:

ANIM 101	Drawing - Gesture and Figure	3.0	CSU
ANIM 104	Drawing Fundamentals	3.0	CSU
ANIM 108	Principles of Animation	3.0	CSU
ANIM 109	Advanced Principles of Animation	13.0	
ΔNIM 111	Animal Drawing	15	

711110 2011	· .		- 40.5
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 Animatic	n3.0	
ARTC 66	Portfolio	3.0	
	<u>or</u>		
ANIM 119	Portfolio	1.5	
ARTC 165	Illustration	3.0	CSU
	<u>or</u>		
ANIM 117	Animation Background Layout	3.0	CSU
ANIM 116	Character Development	1.5	
ANIM 115	Storyboarding	3.0	

Recommended Electives:

ANIM 107	Figure in Motion
ANIM 130	Introduction to 3-D Computer Animation
ANIM 137A	Work Experience in New Digital Media
ARTD 17B	Drawing: Life
ARTD 20	Design:Two Dimensional
ARTS 22	Design:Three-Dimensional
ARTS 41A	Sculpture: Life
PHOT 8	Digital Photography

Architectural Technology - Level I Architecture and Engineering Design Department

Certificate T0291

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:

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 16	Basic CAD and Computer Application	4.0	CSU,UC		
Plus the fo	Plus the following courses:				

Plus the following courses:

ENGL 68	Preparation for College Writing	4.0
MATH 51	Elementary Algebra	4.0
	Total Units	21.0

Architectural Technology

- Technology Concentration Level II

Architecture and Engineering Design Department **Certificate T0203**

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 Reauired courses:

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

PLUS

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	
EDT 20	Technical Descriptive Geometry	3.0	CSU
INSP 70	Elements of Construction	3.0	CSU
PLUS			
Soloet one	(1) course from:		

	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:				

Architectural Technology - Technology Concentration Level III

Architecture and Engineering **Design Department**

Certificate T0204

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 I and II course work (43) units.

PLUS				
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		
EDT 20	Technical Descriptive Geometry	3.0	CSU	
INSP 70	Elements of Construction	3.0	CSU	
Plus the following courses:				

ARCH 28 Architectural CAD 3-D Illustration and Animation ARCH 29 Design IV - Advanced Project

PLUS

Select one (1) course from:

Jerett one	(1) Course Ironn.		
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 -	- 2.0
EDT 26	Civil Engineering Technology and CAD	3.0	CSU
INSP 71	Construction Estimating	3.0	CSU
	Total Units	50.0	- 52.0

Architectural Technology - Design Concentration Level II

Architecture and Engineering Design Department

Certificate T0205

This Level II Design Concentration Certificate focuses upon studio design, drawing, and presentation skills, including modelmaking, 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
	<u>or</u>		
ARCH 18	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

42.0

Architectural Technology - Design Concentration Level III

Architecture and Engineering Design Department

Total Units

Certificate T0206

3.0 CSU

3.0 CSU

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 Desigr	esign III - Environmental Design 3.0	
ARCH 29	Design IV - Advanced Project	3.0	CSU

PLUS

Select one (1) course from:

	Total Units	51.0
INSP 70	Elements of Construction	3.0 CSU
ARCH 89	Architectural Work Experience	1.0 - 2.0
ARCH 28	Architectural CAD 3-D Illustration and Animation	3.0 CSU
ARCH 26	Architectural CAD Working Drawings	3.0
ARCH 18	Architectural Computer Aided Design Elements	3.0
ARCH 15	Architectural Working Drawings - I	3.0 CSU
ARCH 14	Building and Zoning Codes	3.0

Business: Human Resource Management - Level II

Accounting and Management Department Certificate L0534

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 following courses:

Level II as 1	follows:		
ANTH 22	General Cultural Anthropology	3.0	CSU,L
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
	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: Human Resource Management - Level III

Accounting and Management Department Certificate L0535

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:

Completion of Human Resource Management - Level I and

Level II course work (18 Units) as follows: Level I as follows:

DOSIM 50	Principles of Business	3.0	CSU
BUSM 61	Business Organization	3.0	CSU
	and Management		
BUSM 62	Human Resource Management	3.0	

Required courses:

Level II as follows:

ANTH 22	General Cultural Anthropology	3.0	CSU,U
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 following courses:

1 ---- 111 -- f-11----

Level III as			
BUSA 70	Payroll and Tax Accounting	3.0	
CISB 15	Microcomputer Applications	4.0	CSU,UC
	Total Units	25.0	

Special Information:

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

Business: International - Level II Accounting and Management Department Certificate L0597

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 Reauired courses:

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

Principles of Business	3.0	CSU,UC
Principles of International Business	3.0	CSU
Principles of Marketing	3.0	CSU
	Principles of International Business	Principles of International 3.0 Business

Plus the following courses:

Lovel II as follows

Level II us	ionows.	
BUSM 61	Business Organization	3.0 CSU
	and Management	

USM 66	Small Business Management	3.0	CSU
LUS			
	(1)		

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	
ITAL 1	Elementary Italian	4.0	CSU,UC	
JAPN 1	Elementary Japanese	4.0	CSU,UC	
SPAN 1	Elementary Spanish	4.0	CSU,UC	
	Total Units	18.0	- 19.0	

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 L0528

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:

Loval Lac fallows

Leverrus	Level i as follows.				
BUSM 20	Principles of Business	3.0	CSU,U		
BUSM 51	Principles of International Business	3.0	CSU		
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
ITAL 1	Elementary Italian	4.0	CSU,UC
JAPN 1	Elementary Japanese	4.0	CSU,UC
SPAN 1	Elementary Spanish	4.0	CSU,UC

Additional required courses:

Level III as follows:

Ecres in as	101101131		
BUSL 20	International Business Law	3.0	
BUSM 50	World Culture:	3.0	CSU
	A Business Perspective		
	<u>or</u>		
ANTH 22	General Cultural Anthropology	3.0	CSU,U
BUSM 52	Principles of Exporting	3.0	CSU
	and Importing		
	Total Units	27.0	- 28.0

Recommended Electives:

BUSM 81	Work Experience in Business
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 L0586

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:

BUSM 20	Principles of Business	3.0	CSU,UC
BUSM 61	Business Organization	3.0	CSU
	and Management		
BUSS 36	Principles of Marketing	3.0	CSU

Plus the following courses:

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,UC
	Total Units	19.0	

Special Information:

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

Business: Management - Level III Accounting and Management Department Certificate T0526

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 ever-changing 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 Reauired 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	3.0	CSU
	and Management		
BUSS 36	Principles of Marketing	3.0	CSU

Required courses:

Level II as follows: BUSM 60 Human Relations in Business BUSM 62 Human Resource Management

CISB 15 Microcomputer Applications

Plus the following courses:

Level III as follows:

	Total Units	30.0	
	Business		
BUSM 51	Principles of International	3.0	CSL
	Quality Improvement		
BUSM 10	Principles of Continuous	3.0	
	- Financial		
BUSA 7	Principles of Accounting	5.0	CSL

Special Information:

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

Business: Retail Management - Level II

Accounting and Management Department Certificate L0591

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 Reauired courses:

Completion of the Retail Management - Level I course work (9 5 Ilnits) as follows.

WUIK (3.3 C	ilits) us iviluws.		
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: Lovel II as follows

Level II us I	UIIUWS.		
BUSA 11	Fundamentals of Accounting	3.0	
BUSM 61	Business Organization	3.0	CSU
	and Management		
BUSM 62	Human Resource Management	3.0	
BUSS 36	Principles of Marketing	3.0	CSU
	Total Units	22.0	

Special Information:

3.0 CSU

4.0 CSU,UC

3.0

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 T0521

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 U	nits) 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

Required courses:

Completion of the Retail Management - Level II course work (21.5 Units) as follows:

Plus the following courses:			
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	

Plus the following courses.

Level III as follows.

Level III us	IUIIUW3.		
BUSA 7	Principles of Accounting	5.0	CSU,
	- Financial		
BUSM 60	Human Relations in Business	3.0	CSU
BUSO 26	Oral Communications for Busin	ess3.0	
	Total Units	33.0	

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 II

Accounting and Management Department Certificate L0588

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:

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

Plus the following courses:

Level II as follows:

	Total Units	18.0	
BUSM 62	Human Resource Management	3.0	
DOSIVIOI	and Management	3.0	(30
BUSM 61	Business Organization	2 0	CSU
BUSM 60	Human Relations in 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.

Business: Small Business Management - Level III

Accounting and Management Department Certificate T0590

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:

BUSM 20	Principles of Business	3.0	CSU,U			
BUSM 66	Small Business Management	3.0	CSU			
BUSS 36	Principles of Marketing	3.0	CSU			
Required courses:						
BUSM 60	Human Relations in Business	3.0	CSU			
BUSM 61	Business Organization	3.0	CSU			
	and Management					
BUSM 62	Human Resource Management	3.0				

Plus the following courses:

Level III as follows:

2010/11/45			
BUSA 7	Principles of Accounting - Financial	5.0	CSU,UC
BUSM 10	Principles of Continuous Quality Improvement	3.0	
CISB 15	Microcomputer Applications	4.0	CSU,UC
	Total Units	30.0	

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 T1313

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

								Prog	rams of	Study Leading to a	Certi	ficate
	nighly recommended to complete tive administrator.	preparation to	CHLD 82	Advocacy in Early Childhood Development	1.0	CHLD 5	Principles/Practices in Child Development Programs	3.0 CSU	CHLD 10	Child Growth and Development	3.0	CSU,UC
Requirements for the Certificate Required courses: CHLD 83 Current Issues in Child Development 1.0			CHLD 6	Survey of Child Development Curriculum	3.0 CSU	CHLD 10H	Child Growth and Development - Honors	3.0	CSU,UC			
Completion	of the Children's Program Certifi	cate:		Total Units	43.0	CHLD 10	Child Growth and Development	3.0 CSU,UC	CHLD 64	Health, Safety and Nutrition of Young Children	3.0	CSU
General as		2.0 ((11.11)	Childus	ou/s Due sus ous Coutife	4	CHLD 10H	<u>or</u> Child Growth and Development	ז ע רכוו וור	CHLD 71A	Administration of Child	3 0	CSU
CHLD 1 CHLD 5	Child, Family and Community Principles/Practices	3.0 CSU,UC 3.0 CSU		en's Program Certific al - Level II	cate:	CHLD ION	- Honors	3.0 C30,0C		Development Programs		
CHLD 6	in Child Development Programs Survey of Child	3.0 CSU	Child De	velopment			ollowing courses:		CHLD 71B	Management/Marketing/ Personnel for ECD Programs	3.0	
CIILDO	Development Curriculum	3.0 C30		te L1328 ate enhances the student's knowle	dge beyond Level	CHLD 64	Health, Safety and Nutrition	3.0 CSU	FCS 41	Life Management		CSU
CHLD 10	Child Growth and Development	3.0 CSU,UC		additional skills in working with yo			of Young Children			Total Units	33.0	
	<u>or</u>		Require	ments for the Certificate	•	CHLD 68	Children With Special Needs	3.0 CSU		ded Electives:		
CHLD 10H	Child Growth and Development - Honors		Required c	ourses: n of the Children's Program wor	k:	CHLD 84	Guidance & Discipline in Early Childhood Settings	1.0 CSU	BUSA 70	Payroll and Tax Accounting <u>or</u>		
CHLD 64	Health, Safety and Nutrition	3.0 CSU		evel I, as follows:		PLUS			BUSA 71	Financial Planning		
CHLD 68	of Young Children	3.0 CSU	CHLD 1	Child, Family and Community	3.0 CSU,UC	Select thre	e (3) courses from:		BUSL 18	Business Law		
CHLD 84	Children With Special Needs Guidance and Discipline	1.0 CSU	CHLD 5	Principles/Practices	3.0 CSU	Level III as	follows:			<u>or</u>		
CIILD 04	in Child Development Settings	1.0 C30	CIII.D.C	in Child Development Program		CHLD 50	Multicultural Education:	3.0	BUSL 18H	Business Law - Honors		
PLUS	5-		CHLD 6	Survey of Child Development Curriculum	3.0 CSU	CIU D. CA	Anti-Bias Perspective	2.0	BUSM 20	Principles of Business		
	e (3) courses from:		CHLD 10	Child Growth and Developmen	nt 3.0 CSULUC	CHLD 61	Language Arts & Art Media for Young Children	3.0		BUSM 61 Business Organization and Management		
CHLD 61	Language Arts & Art Media	3.0	CHED TO	or	5.0 250,02	CHLD 62	Music and Motor Development	3.0 (\$11	BUSO 25 BUSS 33	Business Communications Advertising and Promotion		
	for Young Children		CHLD 10H		nt 3.0 CSU,UC	CITED 02	for Young Children	3.0 630	BUSS 36	Principles of Marketing		
CHLD 62	Music and Motor Development for Young Children	3.0 CSU	Dluc the fo	- Honors		CHLD 63	Creative Sciencing and Math for Young Children	3.0	CISB 11	Computer Information Systems		
CHLD 63	Creative Sciencing	3.0	Level II as			CHLD 73	Infant/Toddler Care	3.0 CSU	Cl.:1.1	/- D C C	_4	
	and Math for Young Children		CHLD 64	Health, Safety and Nutrition	3.0 CSU		and Development		Teachi	en's Program Certific	ate:	
CHLD 73	Infant/Toddler Care and Development	3.0 CSU		of Young Children			Total Units	28.0				
2116	and bevelopment		CHLD 68	Children With Special Needs	3.0 CSU	<u></u>			Child Development Certificate T1312			
PLUS			CHLD 84	Guidance & Discipline	1.0 CSU		en's Program Certifica		The Childre	n's Program Certificate: Teaching	Specia	lization
CHLD 50	required courses: Multicultural Education:	3.0		in Early Childhood Settings	10.0		Business Managemer	nt	is designed	for the student who desires know	wledge	about
CHLD 30	Anti-Bias Perspective			Total Units	19.0	Child De	velopment te T1311			nood Development and skills for t is certificate meets or exceeds Tit		
CHLD 71A	Administration of Child Development Programs	3.0 CSU		en's Program Certific al - Level III	cate:		en's Programs Small Business Mana provides information for operating		requiremen	nts for fully qualified teachers and teachers are teachers.	l is exp	ected to
CHLD 71B	Management/Marketing/ Personnel for ECD Programs	3.0	Child De	velopment		preschool.		, <u>g</u>	Level (with	16 units of G.E. English, math or I Humanities).		
CHLD 75	Supervising Adults in Early Childhood Settings	2.0		evel of the Children's Program Ce		Required c			Requirer	ments for the Certificate		
PLUS	,			expected to meet or exceed Title			Human Relations in Business		Required co			
	(4) units from:			nts for Assistant Teacher, Associat ith 16 units of G.E.)	te leacher, and	BUSM 66	Small Business Management	3.0 CSU	CHLD 1	Child, Family and Community		CSU,UC
	four (4) unit selection should no	t include anv	,	•		BUSO 5	Business English	3.0	CHLD 5	Principles/Practices in Child Development Programs		CSU
	have previously taken.		Required c	ments for the Certificate	•	CHLD 1 CHLD 5	Child, Family and Community Principles/Practices	3.0 CSU,UC	CHLD 6	Survey of Child		CSU
BUSM 66	Small Business Management	3.0 CSU		ourses: n of the Children's Program cour	rse work:	כחנט	in Child Development Programs	3.0 CSU	CHEDO	Development Curriculum	3.0	(30
CHLD 72	Teacher, Parent	3.0		evel I, as follows:	J. WOIN.	CHLD 6	Survey of Child Development	3.0 CSU	CHLD 10	Child Growth and Development	3.0	CSU,UC
CHLD 73	and Child Relationships Infant/Toddler Care	3.0 CSU	CHLD 1	Child, Family and Community	3.0 CSU,UC		Curriculum			<u>or</u>		
	and Development											

CHLD 10H	Child Growth and Development - Honors	3.0	CSU,U
CHLD 64	Health, Safety and Nutrition of Young Children	3.0	CSU
CHLD 68	Children With Special Needs	3.0	CSU
CHLD 84	Guidance and Discipline in Child Development Settings	1.0	CSU
Plus the fo	llowing courses:		
CHLD 50	Multicultural Education: Anti-Bias Perspective	3.0	
CHLD 66	Early Childhood Development Observation	2.0	CSU
CHLD 66L	Early Childhood Development Observation Laboratory	1.0	CSU
CHLD 67	Early Childhood Development Participation	2.0	CSU
CHLD 67L	Early Childhood Development Participation Laboratory	1.0	CSU
CHLD 69	Early Childhood Development Field Work Seminar	2.0	CSU
CHLD 75	Supervising Adults in Early Childhood Settings	2.0	
CHLD 91	Early Childhood Development Field Work	1.0	CSU
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 L0795

The Computer and Networking Technology Certificates prepare students to enter the computer and networking fields as service technicians. The program provides foundations in basic electronics, computer servicing, operating systems, network/server servicing, 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 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 recognized worldwide as industry benchmarks for 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:

negun ca co	ui ses.		
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	3.0	CSU
	in Microcomputers		
	<u>or</u>		
CISB 15	Microcomputer Applications	4.0	CSU,UC
ELEC 50A	Electronic Circuits (DC)	4.0	CSU
ELEC 50B	Electronic Circuits (AC)	4.0	CSU
ELEC 56	Digital Electronics	4.0	CSU
	Total Units	30.0	- 31.0

Computer and Networking Technology - Level II

Electronics and Computer Technology Department Certificate T0726

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

4.0

44.0 - 45.0

CNET 52	PC Operating Systems	4.0			
CNET 54	PC Troubleshooting	4.0			
CNET 60	A+ Certification Preparation	3.0			
ELEC 11	Technical Applications	3.0	CSU		
	in Microcomputers				
	<u>or</u>				
CISB 15	Microcomputer Applications	4.0	CSU,UC		
ELEC 50A	Electronic Circuits (DC)	4.0	CSU		
ELEC 50B	Electronic Circuits (AC)	4.0	CSU		
ELEC 56	Digital Electronics	4.0	CSU		
DI .1 C II .					

Plus the following courses:

CNET 50 PC Servicing

Level II as	Level II as follows:				
CNET 56	Computer Networks	4.0			
CNET 62	Network+ Certification Preparation	3.0			
CNET 64	Server + Certification Preparation	3.0			
CNET 66	Security + Certification Preparation	3.0			
TECH 60	Customer Relations for the Technician	1.0			

Recommended Electives:

EL	EC 51	Electronic Devices
EL	EC 74	Microprocessor Systems
ES	T 54	Cabling and Wiring Standards

Total Units

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 L1005

The Computer Graphics Certificate will enable the student to develop specific computer skills needed for employment subsequent to completion of the required courses. The Computer Graphics Certificate is an option under the existing Photography program. Those anticipating a Baccalaureate Degree should be guided in their selection of lower-division courses by an advisor of the catalog of the institution they expect to enter.

Requirements for the Certificate Required courses:

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

Recommended Electives:

necommended Liectives.				
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 L0924

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: Technical Applications 3.0 CSU ELEC 11 in Microcomputers ELEC 12 **Computer Simulation** 2.0 and Troubleshooting Electronic Circuits (DC) 4.0 CSU ELEC 50A 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 Microprocessor Systems 4.0 CSU ELEC 74 TECH 60 **Customer Relations** 1.0 for the Technician **Total Units** 28.0

Construction Inspection

Architecture and Engineering Design Department Certificate L0920

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 Reauired courses:

ARCH 12	Architectural Materials and Specifications	3.0	CSU
ARCH 14	Building and Zoning Codes	3.0	
INSP 17	Legal Aspects of Construction	3.0	CSU
INSP 70	Elements of Construction	3.0	CSU
INSP 71	Construction Estimating	3.0	CSU
INSP 87	Fundamentals of Construction Inspection	3.0	
MATH 51	Elementary Algebra	4.0	
	Total Units	22.0	

Recommended Electives:

ARCH 11	Architectural Drawing
ARCH 15	Architectural Working Drawings - I
EDT 26	Civil Engineering Technology and CAD
INSP 67	Reading Construction Drawings

Consumer Services

Consumer Science and Design Technologies Certificate L1321

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	3.0	CSU,UC
BUSL 18H	Business Law - Honors	3.0	CSU,UC
BUSM 60	Human Relations in Business	3.0	CSU
FCS 41	Life Management	3.0	CSU
FCS 80	Financial Planning	3.0	CSU
	<u>or</u>		
BUSA 71	Financial Planning	3.0	CSU
FCS 91	Work Experience in Family	1.0	
	and Consumer Sciences		
	<u>or</u>		
BUSL 36	Paralegal Internship	1.0	
PLUS			
Select two (2) courses from:		
BUSO 5	Business English	3.0	
BUSO 25	Business Communications	3.0	CSU
COMP 12	Office Computer Applications	4.0	CSU,UC
	<u>or</u>		
CISB 15	Microcomputer Applications	4.0	CSU,UC
	Total Units	19.0	20.0

Correctional Sciences **Public Services Department**

Certificate T2103

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 Certificate Required courses:

ADJU 68	Administration of Justice Report Writing	3.0	
CORS 10	Introduction to Correctional	3.0	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			
	4.1		

Select four (4) courses from:				
ADJU 1	The Administration of Justice System	3.0	CSU,UC	
ADJU 2	Principles and Procedures of the Justice System	3.0	CSU	
ADJU 20	Principles of Investigation	3.0	CSU	
ADJU 38	Narcotics Investigation	3.0		
ADJU 59	Gangs in the Community/ Corrections	3.0	CSU	
CORS 35	Interviewing and Counseling in Corrections	3.0		
CORS 40	Crime and Delinquency	3.0		
CORS 45	The Violent Offender	3.0		
	Total Units	30.0		

Recommended Electives:

PE-F 50	Physical Skills Preparation
	for Law Enforcement and Fire 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

Educational Paraprofessional - Level II

Psychology and Education Department Certificate T2188

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:

	in Teaching Service Learning		
ENGL 1A	Freshman Composition	3.0	CSU,U
MATH 71	Intermediate Algebra	5.0	
PSYC 14	Developmental Psychology, or	3.0	CSU,U
CHLD 10	Child Growth and Development	3.0	CSU,U
	Total Units	30.0	

Recommended Electives:

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

Electronic Systems Technology - Level II

Electronics and Computer Technology Department Certificate L0928

The Level II certification (12-13 units) adds customer relations skills and the installation, calibration, setup maintenance and troubleshooting of home theater, home automation, and home security systems. Either a course on preparing for the C-7 license or troubleshooting digital TV with LCD, plasma and DLP video displays is included.

Requirements for the Certificate Required courses: Tachnical Applications

ELEC 11	Technical Applications in Microcomputers	3.0	CSU
	<u>or</u>		
CISB 15	Microcomputer Applications	4.0	CSU,
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 following courses:

EST 56	Home Theater,	4.0
	Home Integration, & Home Secu	ırity Systems
EST 62	Electronic Troubleshooting - I	4.0
TECH 60	Customer Relations	1.0
	for the Technician	

PLUS

Select one (1) course from:

	Total Units	26.0 - 29.0
	License Preparation	
EST 70	C-7 Low Voltage Systems	2.0
EST 64	Electronic Troubleshooting - II	4.0

Recommended Electives:

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 T0906

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 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

Requirements for the Certificate Required courses:

automatically eligible to receive, without further

examination, the N.A.R.T.E. 4th Class Technician License.

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 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 T0904

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:

П	negan ca co	413631		
	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 53	Communications Circuits	4.0	
	ELEC 55	Microwave Communications	4.0	
	ELEC 56	Digital Electronics	4.0	CSU
	ELEC 61	Electronic Assembly and Fabrication	2.0	CSU
	TECH 60	Customer Relations for the Techn	nician	1.0
		Total Units	32.0	

Electronics Technology

Electronics and Computer Technology Department Certificate L0905

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 Reauired 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 and Fabrication	2.0 CSU
TECH 60	Customer Relations for the Technician	1.0
	Total Units	22.0

Electronics: Industrial Systems Electronics and Computer Technology Department Certificate T0908

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 twoyear certificate having the same title as the A.S. Degree. All students completing an Electronics A.S. Degree program are automatically eligible to receive, without further examination, the N.A.R.T.E. 3rd Class Technician License, and all students completing certificate programs are automatically eligible to receive, without further examination, the N.A.R.T.E. 4th Class Technician License.

Requirements for the Certificate Reauired courses:

ELEC 11	Technical Applications	3.0	CSU
	in Microcomputers		

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

Medical Services Department Certificate T1281

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:*

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EMS 1	Fundamentals for Paramedics	4.0		
EMS 10	Anatomy and Physiology	2.0		
	for Paramedics			
EMS 20	Emergency Cardiac Care	1.0		
	for Paramedics			
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:

The Administration of Justice System
Fire Protection Organization
Introduction to Psychology
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
- 3) 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:

- *Color vision:* 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 L0900

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	3.0	CSU
	- Geometric Dimensioning and To	leran	cing
EDT 16	Basic CAD and Computer	4.0	CSU
	Applications		
EDT 18	Engineering CAD Applications	4.0	CSU
DITIC			

PLUS

Select one (1) course from:

	Total Units	19.0 - 21.0
MFG 11	Manufacturing Processes I	2.0 CSU
ELEC 50A	Electronic Circuits (DC)	4.0 CSU

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 T0915

The Engineering Design Technology Level II Certificate is designed to provide focused technical grounding and exposes students to parametric design technology. This certificate enables students to pursue competitive employment in the technical design field, beyond entry level.

Requirements for the Certificate *Required courses:*

oval I as fallows

Level I as fo	Level I as follows:				
EDT 11	Technical Engineering Drawing	3.0	CSU		
EDT 12	Technical Engineering Drawing	1 3.0	CSU		
EDT 14	Mechanical Design	3.0	CSU		
	 Geometric Dimensioning and T 	olerar	icing		
EDT 16	Basic CAD and Computer	4.0	CSU		
	Applications				
EDT 18	Engineering CAD Applications	4.0	CSU		
MFG 11	Manufacturing Processes I	2.0	CSU		
	<u>or</u>				
ELEC 50A	Electronic Circuits (DC)	4.0	CSU		
Plus the fo	llowing courses:				
EDT 20	Technical Descriptive Geometry	3.0	CSU		
EDT 24	Engineering CAD 3-D Solids	3.0	CSU		
	and Surfaces				
ELEC 50B	Electronic Circuits (AC)	4.0	CSU		
MFG 11	Manufacturing Processes I	2.0	CSU		
	<u>or</u>				
ELEC 50A	Electronic Circuits (DC)	4.0	CSU		
	Total Units	31.0	- 35.0		

Engineering Design Technology

- Level III

Architecture and Engineering Design Department Certificate T0916

The Engineering Design Technology Level III Certificate focuses on the civil and structural design fields, emphasizing three-dimensional illustration and animation. This certificate allows students to pursue employment in the civil design fields.

Requirements for the Certificate Required courses:

Level I as follows:

EDT 11 Technical Engineering Drawing I 3.0 CSU

EDT 12	Technical Engineering Drawing I	3.0	CSU	
EDT 14	Mechanical Design		CSU	
	 Geometric Dimensioning and Tolerancing 			
EDT 16	Basic CAD and Computer Applications	4.0	CSU	
EDT 18	Engineering CAD Applications	4.0	CSU	
MFG 11	Manufacturing Processes I	2.0	CSU	
	<u>or</u>			
ELEC 50A	Electronic Circuits (DC)	4.0	CSU	
Required co	ourses:			
Level II as t	follows:			
EDT 20	Technical Descriptive Geometry	3.0	CSU	
EDT 24	Engineering CAD 3-D Solids and Surfaces	3.0	CSU	
ELEC 50B	Electronic Circuits (AC)	4.0	CSU	
MFG 11	Manufacturing Processes I	2.0	CSU	
	<u>or</u>			
ELEC 50A	Electronic Circuits (DC)	4.0	CSU	
Plus the fo	llowing courses:			
EDT 26	Civil Engineering Technology and CAD	3.0	CSU	
EDT 28	Engineering CAD 3-D Illustration/Animation	3.0	CSU	
	Total Units	37.0	- 41.0	

Escrow Management

Business Administration Department Certificate L0511

Requirements for the Certificate Required courses:

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 L1316

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:*

CHLD 1	Child, Family and Community	3.0	CSU,UC

	CHLD 5	Principles/Practices	2 0	CSU
	CULD 3	in Child Development Programs	5.0	(30
	CHLD 6	Survey of Child Development		CSU
	CIILDO	Curriculum	5.0	CSU
	CHLD 10	Child Growth and Development	3.0	CSU.UC
		or		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	CHLD 10H	Child Growth and Development - Honors	3.0	CSU,UC
	CHLD 92	Family Child Care	3.0	
	Plus the fo	llowing courses:		
	CHLD 64	Health, Safety and Nutrition	3.0	CSU
		of Young Children		
	CHLD 68	Children With Special Needs	3.0	CSU
	CHLD 84	Guidance and Discipline	1.0	CSU
		in Child Development Settings		
	PLUS			
	Select one	(1) course from:		
	CHLD 50	Multicultural Education: Anti-Bias Perspective	3.0	
	CHLD 66	Early Childhood Development	2.0	CSU
	CHED OO	Observation	2.0	CJU
	CHLD 66L	Early Childhood Development Observation Laboratory	1.0	CSU
	CHLD 72	Teacher, Parent	3.0	
	CHED 72	and Child Relationships	3.0	
-	CHLD 73	Infant/Toddler Care	3.0	CSU
		and Development		
		Total Units	25.0	

Fashion Design - Level I Consumer Science and Design Technologies

Certificate L1397

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:

ASH 8	Introduction to Fashion	3.0	CSU
ASH 10	Clothing Construction I	3.0	CSU
ASH 12	Clothing Construction II	3.0	CSU
ASH 15	Fashion Strategies	3.0	CSU
ASH 20	Illustration for Fashion	3.0	
	and Costume Design		

	Total Units	27.0	
	and Product Development I		
FASH 30	Fashion Design	3.0	
FASH 23	Patternmaking II	3.0	
FASH 22	Fashion Design By Draping	3.0	
FASH 21	Patternmaking I	3.0	CSU

Fashion Design - Level II

Consumer Science and Design Technologies Certificate T1389

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 career.

Requirements for the Certificate Required courses:

Level I as follows:

FASH 8	Introduction to Fashion	3.0	CSL
FASH 10	Clothing Construction I	3.0	CSL
FASH 12	Clothing Construction II	3.0	CSL
FASH 15	Fashion Strategies	3.0	CSL
FASH 20	Illustration for Fashion and Costume Design	3.0	
FASH 21	Patternmaking I	3.0	CSL
FASH 22	Fashion Design By Draping	3.0	
FASH 23	Patternmaking II	3.0	
FASH 30	Fashion Design and Product Development I	3.0	

Plus the following courses:

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	
	Total Units	39.0	

Recommended Electives:

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 L1303

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 Reauired courses:

Level I as follows:

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

Plus the following courses:

Level II as f	ollows:		
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 <u>or</u>	3.0	CSU
BUSS 33	Advertising and Promotion	3.0	CSU
FASH 66	Visual Merchandising Display	3.0	CSU
	Total Units	27.0	

Recommended Flectives:

necommen	ueu Liettives.
FASH 25	Fashion Computer-Assisted Drawing
FASH 26	Fashion Computer Assisted Design
FASH 81	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 L2105

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 Reauired courses:

FIRE 1	Fire Protection Organization	3.0	CSU
FIRE 2	Fire Prevention Technology	3.0	CSU
FIRE 3	Fire Protection Equipment	3.0	CSU
	and Systems		
FIRE 4	Building Construction	3.0	CSU
	for Fire Protection		
FIRE 5	Fire Behavior and Combustion	3.0	CSU
FIRE 6	Hazardous Materials/ICS	3.0	
PLUS			
Soloet tu	in (2) courses from:		

Select two (2) courses from:

_			
	Total Units	23.5 -	34.0
	for the Basic Fire Academy		
PE-F 53	Physical Training	2.5	CSU
FIRE 86	Basic Fire Academy	12.0	
FIRE 12	Wildland Fire Control	4.0	CSU
FIRE 11	Fire Apparatus and Equipment	3.0	CSU
FIRE 10	Arson and Fire Investigation	3.0	CSU
FIRE 9	Fire Hydraulics	3.0	CSU
TITLE	and Management	3.0	CJO
FIRE 8	Fire Company Organization	3.0	CSU
FIRE 7	Fire Fighting Tactics and Strategy	3.0	CSU

Recommended Electives:

PE-F 50	Physical Skills Preparation for Administration of Justice and Fire Technology
PE-F 51	Agility Testing Preparation for Administration of Justice and Fire Technology
PE-F 52	Fitness and Conditioning for Administration of Justice, Fire Technology, and Forestry
SPAN 66	Spanish for Fire and Police Personnel

Horse Ranch Management Agricultural Sciences Department Certificate L0102

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 Reauired courses:

	Total Units	21.0	- 24.0
,	of Livestock		
AGLI 97	and Disease Control Artificial Insemination	2.0	
AGLI 96	Animal Sanitation	3.0	CSU
AGLI 19	Horse Hoof Care		CSU
AGLI 18	Horse Ranch Management	4.0	CSU
	<u>or</u>		
AGLI 16	Horse Production	4.0	CSU,UC
AGAN 94	Animal Breeding	3.0	
AGAN 2	Animal Nutrition	3.0	CSU
AGAG 59	Work Experience in Agriculture	1.0 -	- 4.0
NGND 20	in Agriculture	5.0	C50,0C
AGAB 20	Microcomputer Applications	3.0	CSU,UC

Hospitality: Catering

Consumer Science and Design Technologies Certificate L1395

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:

neguneac	Jui Jej.		
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	1.0	CSU
	in Restaurant/Hospitality		
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 L1325

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:

HRM 51	Introduction to Hospitality	3.0	CSU
HRM 53	Dining Room Service	3.0	CSU
	Management		
HRM 56	Management of Hospitality	3.0	CSU
	Personnel and Operations		
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	1.0	CSU
	in Restaurant/Hospitality		
	Total Units 1	9.0	

Hospitality: Restaurant Management - Level II

Consumer Science and Design Technologies Certificate L1319

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
HRM 61	Menu Planning	3.0	CSU
NF 28	Cultural and Ethnic Foods	3.0	CSU,UC
	Total Units	19.5	

Infant/Toddler Development Child Development Certificate T1318

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).

Requirer	ments for the Certificate		
CHLD 1	Child, Family and Community	3.0	CSU,UC
CHLD 5	Principles/Practices in Child Development Programs	3.0	CSU
CHLD 6	Survey of Child Development Curriculum	3.0	CSU
CHLD 10	Child Growth and Development <u>or</u>	3.0	CSU,UC
CHLD 10H	Child Growth and Development - Honors	3.0	CSU,UC
CHLD 73	Infant/Toddler Care and Development	3.0	CSU
CHLD 85	Infants At Risk	3.0	
PLUS			
Select four	(4) courses from:		
CHLD 50	Multicultural Education: Anti-Bias Perspective	3.0	
CHLD 61	Language Arts & Art Media for Young Children	3.0	
CHLD 62	Music and Motor Development for Young Children	3.0	CSU
CHLD 64	Health, Safety and Nutrition of Young Children	3.0	CSU
CHLD 72	Teacher, Parent and Child Relationships	3.0	
	Total Units	30.0	

Interior Design

- Kitchen And Bath Design

Consumer Science and Design Technologies Certificate T1302

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:*

Architectural Drawing	3.0	CSU,UC
Architectural Working	3.0	CSU
Basic CAD	4.0	CSU,UC
and Computer Application		•
	Architectural Working Drawings - I Basic CAD	Architectural Working 3.0 Drawings - I Basic CAD 4.0

Recommended Electives:

ID 100

ID 105

ID 130

ID 150

ID 170

ID 180

ID 190

ID 210

ID 215

ID 230

ID 240A

ID 240B

ID 240C

ID 250

ID 265

ID 275

INSP 70

INSP 71

Fundamentals of Interior Design 3.0 CSU

Applied Color and Design Theory 4.0 CSU

History of Interior Architecture 3.0 CSU

History of Interior Architecture 3.0 CSU

2.0 CSU

4.0 CSU

3.0 CSIJ

3.0

3.0

10

1.0

2.0

2.0

2.0 CSU

2.0 CSU

3.0 CSU

3.0 CSU

56.0

2.0 CSU

Interior Design Studio I

Space Planning

& Furnishings I

& Furnishings II

Practice

Seminar and

Fundamentals of Lighting

Business and Professional

Interior Design Internship

Interior Design Internship

Interior Design/Kitchen

Codes and Specifications

Interior Design Studio III

Interior Design Studio IV

Elements of Construction

Construction Estimating

& Bath Internship

for Interior Design

- Kitchens

- Bath Design

Total Units

Interior Design Studio II

Interior Materials and Products

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 L1322

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 Application	4.0	CSU,UC
BUSS 35	Professional Selling	3.0	CSU
ID 100	Fundamentals of Interior Design	3.0	CSU
ID 105	Interior Design Studio I	2.0	CSU
ID 120	Interior Design Careers	2.0	CSU
ID 130	Applied Color and Design Theory	4.0	CSU
ID 150	Interior Materials and Products	4.0	CSU
	Total Units	25.0	

Interior Design Level II - Design Consumer Science and Design Technologies Certificate T1330

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

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,U
ARCH 16	Basic CAD	4.0	CSU,U
	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

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	urses:		
Level II as f	ollows:		
ARCH 13	Architectural Illustration	3.0	CSU,UC
ARCH 15	Architectural Working Drawings - I	3.0	CSU
ID 170	Space Planning	3.0	CSU
ID 180	History of Interior Architecture & Furnishings I	3.0	CSU
ID 190	History of Interior Architecture & Furnishings II	3.0	CSU
ID 210	Fundamentals of Lighting	3.0	
ID 215	Interior Design Studio II	2.0	CSU
ID 230	Business and Professional Practice	3.0	
ID 240A	Interior Design Internship Seminar and	1.0	
ID 240B	Interior Design Internship	1.0	

Interior Design Level III - Professional Designation **Consumer Science and Design Technologies** Certificate F1391

50.0

Total Units

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,UC
	ARCH 16	Basic CAD and Computer Application	4.0	CSU,UC
	BUSS 35	Professional Selling	3.0	CSU
	ID 100	Fundamentals of Interior Design	3.0	CSU
	ID 105	Interior Design Studio I	2.0	CSU
	ID 120	Interior Design Careers	2.0	CSU
	ID 130	Applied Color and Design Theory	4.0	CSU
	ID 150	Interior Materials and Products	4.0	CSU
ı	Poquired co	NIKCOC.		

Required courses:

Level II course work as 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	
	<u>and</u>		
ID 240B	Interior Design Internship	1.0	
Reauired co	ourses:		

Required courses:

Level	Level III course work as follows:				
ARCH	18 Architectural Design Elem	Computer Aided ents	3.0		
BUSA	7 Principles of - Financial	Accounting	5.0	CSU,UC	
ID 250	Codes and Sp for Interior D		2.0	CSU	
ID 260	Rendering ar Visualization		2.0	CSU	
ID 265	Interior Desig - Kitchens	gn Studio III	2.0		
ID 275	Interior Desig - Bath Design		2.0	CSU	
	Total Units		66.0		

Interior Landscaping Agricultural Sciences Department Certificate L0106

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:

AGOR 1	Horticultural Science	3.0	CSU
AGOR 13	Landscape Design	3.0	CSU
AGOR 15	Interior Landscaping	3.0	
AGOR 24	Integrated Pest Management	3.0	CSU
AGOR 29	Ornamental Plants - Herbaceous	3.0	CSU,UC
AGOR 32	Landscaping and Nursery	3.0	CSU
	Management		
AGOR 62	Landscape Irrigation	3.0	CSU
	- Design and Installation		
AGOR 64	Landscape Irrigation	3.0	
	- Drip and Low Volume		
	Total Units	24.0	
I			

Landscape and Park Maintenance Agricultural Sciences Department Certificate T0108

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 Reauired courses:

AGOR 1	Horticultural Science	3.0	CSU
AGOR 24	Integrated Pest Management	3.0	CSU
AGOR 29	Ornamental Plants - Herbaceous	3.0	CSU,UC
AGOR 30	Ornamental Plants - Trees and Woody Shrubs	3.0	CSU,UC
AGOR 39	Turf Grass Production and Management	3.0	CSU
AGOR 40	Sports Turf Management	3.0	
AGOR 51	Tractor and Landscape Equipment Operations	3.0	CSU
AGOR 62	Landscape Irrigation - Design and Installation	3.0	CSU
AGOR 63	Landscape Irrigation Systems Management	3.0	
AGOR 71	Landscape Construction Fundamentals	3.0	CSU
	Total Units	30.0	
1			

Landscape Design and Construction Agricultural Sciences Department Certificate L0109

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 Reauired 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
Tractor and Landscape Equipment Operations	3.0	CSU
Landscape Irrigation - Design and Installation	3.0	CSU
Landscape Construction Fundamentals	3.0	CSU
		CSU
	Landscape Design Ornamental Plants - Herbaceous Ornamental Plants - Trees and Woody Shrubs Soil Science and Management Tractor and Landscape Equipment Operations Landscape Irrigation - Design and Installation Landscape Construction Fundamentals Landscape Hardscape Applications	Landscape Design 3.0 Ornamental Plants - Herbaceous 3.0 Ornamental Plants 3.0 - Trees and Woody Shrubs Soil Science and Management 3.0 Tractor and Landscape 3.0 Equipment Operations Landscape Irrigation 3.0 - Design and Installation Landscape Construction 3.0 Fundamentals Landscape Hardscape Applications 3.0

Landscape Equipment Technology Agricultural Sciences Department Certificate T0117

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 Reauired 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 Nursery Operations	1.0 – 4.0
	Total Units	31.0 - 34.0

Landscape Irrigation

Agricultural Sciences Department Certificate L0110

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:

AGOR 1	Horticultural Science	3.0	CSU
AGOR 13	Landscape Design	3.0	CSU
AGOR 39	Turf Grass Production and Management	3.0	CSU
AGOR 50	Soil Science and Management	3.0	CSU,U
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 64	Landscape Irrigation - Drip and Low Volume	3.0	
AGOR 71	Landscape Construction Fundamentals	3.0	CSU
	Total Units	27.0	

Law Enforcement Public Services Department Certificate T2102

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	3.0	
	of Justice Report Writing		

Select four (4) courses from:

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

Recommended Electives:

PE-F 50	Physical Skills Preparation
	for Law Enforcement and Fire 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 T0519**

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.

Requirements for the Certificate Required courses:

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 Professiona	14.0	
COMP 28	Office Management Skills	3.0	
COMP 68	Transcription Techniques	3.0	
PLGL 30	Introduction to Paralegal/Legal	3.0	CSU

	Total Units	39.0
PLGL 35B	Automated Law Office Pr	ocedures 3.0
PLGL 35A	Law Office Procedures	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 T0103

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 Reauired courses:

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,UC
	Fundamentals		
AGOR 71	Landscape Construction	3.0	CSU

Manufacturing Technology

Aircraft Maintenance Tech & Manufacturing Dept. **Certificate T0918**

The primary purpose of this program is to emphasize the manipulative skills required to enter the field of machine

metal worker, machine operator, production machinist, mechanical technician, or machinist.

Requirements for the Certificate Required courses:

MFG 11	Manufacturing Processes I	2.0	CSU
MFG 12	Manufacturing Processes II	2.0	CSU
MFG 15	AutoCAD 2D	2.0	
MFG 17	3-D CAD - Mechanical Modeling	2.0	
MFG 19	Parametric Solid Modeling for Manufacturing	2.0	
MFG 38	MasterCAM I	2.0	CSU
MFG 38B	Advanced MasterCAM	2.0	CSU
MFG 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 Control	2.0 l) Ope	
PLUS			
Soloet two	(2) courses from:		

Select two (2) courses from:

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

Marketing Management

Business Administration Department Certificate L0510

Requirements for the Certificate Required courses:

BUSM 20	Principles of Business	3.0	CSU,UC
BUSM 61	Business Organization	3.0	CSU
	and Management		
BUSS 35	Professional Selling	3.0	CSU
BUSS 36	Principles of Marketing	3.0	CSU
BUSS 50	Retail Store Management	3.0	
	and Merchandising		
BUSS 70	International Marketing Concepts	3.0	
BUSS 79	Work Experience	1.0	
	in Marketing Management		
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 T0523

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

Requirements for the Certificate Required courses:

BUSA 72	Bookkeeping - Accounting	5.0	
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 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	
COMP 20	Word for the Business	4.0	
	Professional		
COMP 28	Office Management Skills	3.0	
COMP 68	Transcription Techniques	3.0	
MEDI 90	Medical Terminology	3.0	CSU
	Total Units	39.0	

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 Certificate T1279

Completion of coursework leads to an Associate of 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 and Counseling	3.0
PSYC 40	<u>or</u> Introduction to Interviewing and Counseling	3.0

l			
MENT 56	Medical-Surgical Nursing for Psychiatric Technicians	9.0	
MENT 56L	Clinical Experience	4.0	
MENT 58D	Advanced Medical-Surgical Nursing and Pharmacology for	4.0 PT	
MENT 58L	Advanced Medical-Surgical Nursing for Psychiatric Technicia	1.5 ans Clir	nical
MENT 70	Introduction to Psychiatric Technology	1.5	
MENT 70L	Introduction to Psychiatric Technology Clinical Technicians	2.0	
MENT 72	Nursing Care of the Developmentally Disabled Person	7.0 on	
MENT 72L	Nursing Care of the Developmentally Disabled Person	5.0 on - Cli	nical
MENT 73L	Psychiatric Nursing for Psychiatric Technicians Clinic	5.0	
MENT 73T	Psychiatric Nursing for Psychiatric Technicians	6.0	
MENT 82	Work Experience in Mental Health Technology	2.0	
PSYC 1A	Introduction to Psychology	3.0	CSU,UC
	Total Units	53.0	

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.
- j) All students will be required to pass 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 L0702

This certificate program is intended to prepare students to use the most popular microcomputer productivity software packages and operating systems: DOS, Microsoft Windows, Microsoft Word, Corel WordPerfect, Microsoft Excel or Lotus 1-2-3. and Microsoft Access.

Requirements for the Certificate Required courses:

CISB 13	Microsoft Windows	2.0	CSU
	<u>or</u>		
CISN 21	Windows Operating System	4.0	CSU
CISB 15	Microcomputer Applications	4.0	CSU,UC
CISB 21	Microsoft Excel	4.0	
CISD 11	Database Management	4.0	CSU
	- Microsoft Access		
CISW 11	Introduction to	4.0	CSU
	Internet Technologies		
COMP 50	Desktop Presentations	4.0	CSU
	Using PowerPoint		
	Total Units	22.0	- 24.0

Nursery Management Agricultural Sciences Department Certificate L0107

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.

Reauired courses: 3.0 CSU AGOR 1 Horticultural Science Plant Propagation/Greenhouse 3.0 CSU AGOR 2 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 Turf Grass Production AGOR 39 3.0 CSU and Management Landscape Irrigation 3.0 CSU AGOR 62

- Design and Installation

3.0

27.0

Landscape Irrigation

- Drip and Low Volume **Total Units**

Requirements for the Certificate

Park Management Agricultural Sciences Department Certificate T0186

AGOR 64

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.

Requirements for the Certificate Required courses:

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

Pet Science

Agricultural Sciences Department Certificate T0104

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 Bi	rds 3.0	
BUSM 66	Small Business Management	3.0	CSU
	Total Units	37.0	

Photography

Commercial and Entertainment Arts Certificate L1002

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:

JCJ.		
hoto Editing with Photoshop	3.0	
asic Digital	3.0	CSU,UC
nd Film Photography		
rofessional Photography	4.0	
hotographic Alternatives	3.0	CSU,UC
<u>r</u>		
xploring Color Photography	3.0	
ashion Photography	3.0	
<u>r</u>		
ortraiture	3.0	
nd Wedding Photography		
	hoto Editing with Photoshop asic Digital nd Film Photography rofessional Photography hotographic Alternatives c kploring Color Photography ashion Photography	hoto Editing with Photoshop 3.0 asic Digital 3.0 nd Film Photography rofessional Photography 4.0 hotographic Alternatives 2 xxploring Color Photography 3.0 ashion Photography 3.0 z ortraiture 3.0

		Total Units	27.0
		and Illustrative Photography	
	PHOT 30	Commercial	3.0
		Development	
	PHOT 28	Photography Portfolio	2.0
	PHOT 20	Color Photography	3.0
-	PHOT 17	Photocommunication	3.0

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

Programming In C++

Computer Information Systems Department Certificate L0794

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 - Microcomputers	4.0	CSU
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	27.0	

Programming In Visual Basic

Computer Information Systems Department Certificate L0789

This certificate is intended to prepare students to work in Visual Basic which is used to develop graphical user interfaces and client/server applications.

Requirements for the Certificate Required courses:

CISB 11	Computer Information Systems	3.5	CSU,UC
CISD 11	Database Management	4.0	CSU
	- Microcomputers		

CISP 11 Ba	ient/Server Architecture nsic Programming dvanced Basic Programming	4.0 4.0 4.0	CSU,UC CSU,UC
	, ,		,
	, ,		,

Public Works/Landscape Management Agricultural Sciences Certificate B0120

This program is a partnership between Mt. San Antonio College and Citrus College, with course requirements that must be taken at each college (courses in Public Works are offered through Citrus, while horticulture/landscape courses are offered at Mt. SAC). Upon completion of the requirements, students may apply for and receive a Certificate of Achievement from either of the two colleges.

Requirements for the Certificate *Required courses:*

	Total Units	12.00
	and Management	
AGOR 39	Turf Grass Production	3.0
AGOR 1	Horticultural Science	3.0
	(Citrus College)	
PUB 158	Municipal and Urban Tree Care	3.0
PUB 150	Public Works I (Citrus College)	3.0

Radio Broadcasting: Behind the Scenes

Commercial and Entertainment Arts Certificate T0606

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:*

neguneaco	uises.		
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 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	
	<u>or</u>		
R-TV 97D	Entertainment Industry Internship - KSAK Radio	2.0	
PLUS			
Select nine	(9) units from:		
R-TV 03	Sportscasting and Reporting	1.5	
R-TV 05	Radio-TV Newswriting	3.0	
R-TV 06	Broadcast Traffic Reporting	1.5	
R-TV 08	KSAK Radio Studio Operations	2.0	CSU
R-TV 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	
R-TV 31	History of Radio DJ's	3.0	
R-TV 33	Radio Show Producer Techniques and Proedures	3.0	
	Total Units	33.0	34.0

Radio Broadcasting: On the Air Commercial and Entertainment Arts Certificate T0605

This On-the-Air Radio Broadcasting Certificate is designed for students who are interested in working in the performance side of the industry. Students receive instruction in developing skills needed to work as disc jockeys, newscasters, voice-over artists and in other performance areas of the industry.

Requirements for the Certificate *Required courses:*

R-TV 01	Introduction to Broadcasting	3.0	CSU
R-TV 02	On-Air Personality Development	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 07A	Beginning Commercial Voice-Ove	rs3.0	
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	
I			

	Total Units	36.0 -	37.0
W-1 A 22	Radio Show Producer Techniques and Procedures	3.0	
R-TV 31 R-TV 33	History of Radio DJ's	3.0	
R-TV 27	naaro Brania	3.0	
	Legal Issues in Entertainment Law Radio Drama		
R-TV 17			
R-TV 12 R-TV 17	Commercial Copywriting Internet Radio and Podcasting	3.0	
	and Programming		
R-TV 10	Radio Management	3.0	
R-TV 09	Broadcast Sales and Promotion	3.0	
R-TV 08	KSAK Radio Studio Operations	2.0	CSU
R-TV 07B	Advanced Commercial Voice-Overs	3.0	
R-TV 06	Broadcast Traffic Reporting	1.5	
R-TV 04	Broadcast News Field Reporting	3.0	
R-TV 03	Sportscasting and Reporting	1.5	
Select nine	(9) units from:		
PLUS			
R-TV 97C	KSAK Radio/Internet Radio Internship	1.0 0	r 2.0
K-1V 9/D	Industry Internship	1.0	
R-TV 97B	Industry Seminar Radio/Entertainment	1.0	

Real Estate Business Admi

Business Administration Department Certificate L0512

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

Requirements for the Certificate

Kequirea co	ourses:		
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		

PLUS	_		
Select one	(1) course from:		
BUSA 11	Fundamentals of Accounting	3.0	
BUSL 18	Business Law	3.0	CSU,UC
BUSR 55	Real Estate Economics	3.0	
BUSR 57	Income Tax Aspects of Real Estate Investments	3.0	
BUSR 59	Real Estate Property Management	3.0	
BUSR 76	Escrow Procedures I	3.0	
	Total Units	18.5	
-			

Real Estate Appraisal Business Administration Department Certificate L0513

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 Required courses:

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

LUS

Select three (3) courses from:

	Total Units	22.5	- 23.5
INSP 70	Elements of Construction	3.0	CSU
CISB 15	Microcomputer Applications	4.0	CSU,UC
BUSR 76	Escrow Procedures I	3.0	
BUSR 59	Real Estate Property Management	3.0	
BUSR 57	Income Tax Aspects of Real Estate Investments	3.0	
BUSR 55	Real Estate Economics	3.0	
BUSR 53	Real Estate Finance	3.0	
BUSR 51	Legal Aspects of Real Estate	3.0	
BUSR 50	Real Estate Principles	3.0	CSU
BUSA 11	Fundamentals of Accounting	3.0	

School Age Child - Specialization Child Development Certificate T1314

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 of exceeds Title 5 Master Teacher - School Age Child Permit Level (with 16 units of general education).

Requirements for the Certificate *Required courses:*

CHLD 1	Child, Family and 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 50	Multicultural Education: Anti-Bias Perspective	3.0			
CHLD 51	Early Literacy in Child Development	3.0			
CHLD 62	Music and Motor Development for Young Children	3.0	CSU		
CHLD 64	Health, Safety and Nutrition of Young Children	3.0	CSU		
CHLD 74	Program Planning for the School Age Child	3.0			
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:				
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 T0801

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 certificate 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,U
SIGN 210	American Sign Language Structure	3.0	CSU,U
SIGN 220	Translation: American Sign Language/English	3.0	CSU
SIGN 223	Principles of Interpreting	3.0	CSU
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	CSU
SIGN 250	Interpreting with Classifiers	1.5	
SIGN 260	Video Interpreting	1.5	
SL 2	Linked Service Learning	1.0	CSU
	Total Units	40.0	43.0

Sports Turf Management Agricultural Sciences Department Certificate L0112

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:

AGOR 1	Horticultural Science	3.0	CSU
AGOR 24	Integrated Pest Management	3.0	CSU
AGOR 30	Ornamental Plants - Trees and Woody Shrubs	3.0	CSU,L
AGOR 39	Turf Grass Production and Management	3.0	CSU
AGOR 40	Sports Turf Management	3.0	
AGOR 50	Soil Science and Management	3.0	CSU,L
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	
	Total Units	27.0	

Television Production Commercial and Entertainment Arts Certificate L0602

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 20

K-1V 01	Introduction to Broadcasting	3.0	CZU
R-TV 14	Media Aesthetics	3.0	
R-TV 15	Broadcast Business Practices	3.0	
R-TV 19A	Beginning Television Production	3.0	CSU
R-TV 19B	Advanced Television Production	3.0	CSU
R-TV 100	Work Experience in Film and TV	2.0	
PLUS			
Select nine	(9) units from:		
R-TV 18	Writing for Television/Film	3.0	CSU

Television News Production

3.0

R-TV 21	Remote Television Production and Engineering	3.5
R-TV 22	Editing for Film and Television	3.0
	Total Units	26.0

Recommended Electives:

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

Theatrical Costumer

Theater Department Certificate L1001

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, or 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:

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

Tree Care and Maintenance Agricultural Sciences Department Certificate L0111

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:

AGOR 1	Horticultural Science	3.0	CSU
AGOR 24	Integrated Pest Management	3.0	CSU
AGOR 30	Ornamental Plants - Trees and Woody Shrubs	3.0	CSU,UC
AGOR 32	Landscaping and Nursery Management	3.0	CSU

AGOR 75	Urban Arboriculture Total Units	3.0 24.0	
AGOR 53	Small Engine Repair I		CSU
	Equipment Operations		
AGOR 51	Tractor and Landscape	3.0	CSU
AGOR 50	Soil Science and Management	3.0	CSU,UC

Water Technology

Air Conditioning, Water & Welding Technologies Certificate L0921

This program is designed to train students who wish to: (1) seek employment in the water treatment industry, or (2) qualify for a specialized position within the water treatment industry. Material covered in the courses will be helpful to students who wish to prepare for Grade I, Grade II. or Grade III Water Treatment Operator certification examinations given by the State of California, Department of Health, and the AWWA Distribution Operation Certification. It also covers the responsibilities of water supply. State Health Department Title 17 Cross-Connections, and Title 22 Water Quality Standards.

Requirements for the Certificate Required courses:

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 L0618

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 Reauired courses:

Web Animation With Flash	3.0	
Graphic Design:	3.0	CSU,UC
Lettering and Typography		
Computer Graphics: Introduction	3.0	CSU
	Graphic Design: Lettering and Typography	Graphic Design: 3.0

ARTC 74	Computer Graphics:	3.0	CSU
ARTC 171	Web Page Design Computer Graphics 2:	3.0	CSU
	Layout and Design With Qua	arkXpress	
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 L0930

This program is designed to prepare students for entrylevel 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 courses:

-			
WELD 40	Introduction to Welding	2.0	CSU
WELD 50	Oxyacetylene Welding	2.0	
WELD 51	Basic Electric Arc Welding	2.0	
WELD 53A	Welding Metallurgy	3.0	CSU
WELD 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 T0931

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:

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 Welding	3.0	
WELD 81	Pipe and Tube Welding	3.0	
WELD 91	Automotive Welding, Cutting and Modification	3.0	
	Total Units	30.0	

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

Welder - Gas Tungsten Arc Welding

Air Conditioning, Water & Welding Technologies **Certificate T0932**

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 gas tungsten ARC welding.

Requirements for the Certificate Reauired courses:

WELD 40	Introduction to Welding	2.0	CSU
WELD 50	Oxyacetylene Welding	2.0	
WELD 51	Basic Electric Arc Welding	2.0	
WELD 53A	Welding Metallurgy	3.0	CSU
WELD 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	
I			

WELD 90A Gas Tungsten Arc Welding 3.0 **Total Units** 30.0 Note: Any higher level welding courses may be substituted for WELD 40.

Welding - Semiautomatic Arc Welding

Air Conditioning, Water & Welding Technologies Certificate T0933

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:

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 Welding	3.0	
WELD 81	Pipe and Tube Welding	3.0	
WELD 90B	Semiautomatic Arc Welding Process	3.0	
	Total Units	30.0	

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

SKILLS CERTIFICATES

Accounting - Bookkeeping Accounting and Management Department **Certificate E0504**

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 iournals/ledgers, accounts receivable, accounts pavable, 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 E0505

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 Required courses:

Completion of Accounting-Bookkeeping Certificate as follows:

BUSA 7	Principles of Accounting - Financial	5.0	CSU,U
	<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 70	Payroll and Tax Accounting	3.0	
BUSA 75	Using Microcomputers	1.0	
	in Financial Accounting	1.0	
	<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	
	Total Units	14.0	- 15.

Administrative Assistant - Level I Office Technology Department Certificate E0516

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

Requirements for the Certificate Required courses:

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	
	Total Units	14.0	

Art: Aesthetics for Technology **Commercial and Entertainment Arts** Certificate E1013

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 E0802

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

Business: Human Resource Management - Level I **Accounting and Management Department**

Certificate E0531

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:

BUSM 20	Principles of Business	3.0	CSU,UC

BUSM 61	Business Organization and Management	3.0 CSU
BUSM 62	Human Resource Management	3.0
	Total Units	9.0

Special Information:

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

Business: International - Level I Accounting and Management Department Certificate E0527

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 E0525

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 Reauired courses:

BUSM 20	Principles of Business	3.0	CSU,UC
BUSM 61	Business Organization	3.0	CSU
	and Management		
BUSS 36	Principles of Marketing	3.0	CSU
	Total Units	9.0	

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 I

Accounting and Management Department Certificate E0500

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:

BUSO 25	Business Communications	3.0	CSU
CISB 15	Microcomputer Applications	4.0	CSU,UC
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 E0529

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 E0532

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:

	Total Units	15.0	
FCS 41	Life Management	3.0	CSU
FASH 15	Fashion Strategies	3.0	CSU
BUSO 26	Oral Communications for B	usiness3.0	
BUSO 5	Business English	3.0	
BUSA 68	Business Mathematics	3.0	

Children's Program Certificate: General - Level I

Child Development Certificate E1326

The Children's Program Certificate: General - Level I is designed for the student who desires general knowledge about child development and who has an interest or awareness of teaching young children. This certificate meets Title 22 education requirements for fully qualified teachers.

Requirements for the Certificate *Required courses:*

	Total Units	12.0	
	- Honors		
CHLD 10H	Child Growth and Development	3.0	CSU,UC
	<u>or</u>		
CHLD 10	Child Growth and Development	3.0	CSU,UC
	Development Curriculum		
CHLD 6	Survey of Child	3.0	CSU
	in Child Development Programs		
CHLD 5	Principles/Practices	3.0	CSU
CHLD 1	Child, Family and Community	3.0	CSU,UC

CIS Professional Certificate in Database Management - Microcomputers

Computer Information Systems Department Certificate E0715

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	15.0	
CISD 40	Database Design	3.0	
CISD 21	Database Management — Microsoft SQL Server	4.0	
CISD 14	Advanced Database Management – Microsoft Access	4.0	
CISD 14	- Microsoft Access	4.0	
CISD 11	Database Management	4.0	CSU

CIS Professional Certificate in Object-Oriented Design & Programming

Computer Information Systems Department Certificate E0723

This certificate will provide the basic knowledge for developing a model and creating a design for business application programs using object-oriented approach and IJMI.

Principles of Object-Oriented Design 2.0

Requirements for the Certificate *Required courses:*

CISP 10

2.5	· · · · · · · · · · · · · · · · · · ·		
CISP 11	Programming in Visual Basic CSU,UC		4.0
	<u>or</u>		
CISP 21	Programming in Java	4.0	CSU,UC
	<u>or</u>		
CISP 31	Programming in C++	4.0	CSU,UC
	<u>or</u>		
CISP 41	Programming in C#	4.0	
CISP 14	Advanced Visual Basic Program CSU,UC	ming	4.0
	<u>or</u>		
CISP 24	Advanced Java Programming	4.0	
	<u>or</u>		
CISP 34	Advanced C++ Programming	4.0	CSU,UC
	<u>or</u>		
CISP 44	Advanced Programming in C#	4.0	
	Total Units	10.0	
I			

CIS Professional Certificate in Windows Operating System Administration.

Computer Information Systems Department Certificate E0720

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:

CISN 21	Windows Operating System	4.0 CSU
CISN 24	Microsoft NT Network System	4.0 CSU
	Administration	
	Total Units	8.0

CIS Professional Certificate in C# Programming

Computer Information Systems Department Certificate E0722

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:

CISD 11	Database Management — Microsoft Access	4.0
CISD 21	<u>or</u> Database Management — Microsoft SQL Server	4.0
	<u>or</u>	
CISD 31	Database Management – Oracle	4.0
CISP 10	Principles of Object-Oriented	2.0
	Design	
CISP 41	Programming in C#	4.0
CISP 44	Advanced Programming in C#	4.0
	Total Units	14.0

CIS Professional Certificate in LINUX Computer Information Systems Department Certificate E0796

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 E0721

This curriculum is designed for returning CIS professionals with several years of experience or current students who have completed several CIS courses. This program is aimed to help students develop skills to design, implement, and maintain secured networks. The courses examine Firewall and VPN in various environments and platforms, use network protocol analyzing technology as a security tool to protect the networks from attacks, and illustrate network vulnerabilities from a hacker's perspective. This program will prepare students to explain fundamental concepts of network security, identify network vulnerabilities and attacks, and use various protocol analyzers to detect network attack and troubleshoot network problems. Individual courses may assist students in preparing for related industry certification exams.

Requirements for the Certificate Required courses:

CISS 21	Network Vulnerabilities	4.0	CSU
	and Countermeasures		
CISS 23	Network Analysis and NIDS	4.0	CSU
CISS 25	Network Security and Firewalls	4.0	CSU
	Total Units	12.0	

CIS Professional Certificate in SOA and Web Services

Computer Information Systems Department Certificate E0724

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:

	Total Units	6.0
	Concepts & Practice	
CISW 49	Service Oriented Architecture	3.0
CISW 41	XML Secure Programming	3.0

CIS Professional Certificate in SQL

Computer Information Systems Department Certificate E0730

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	11.0
CISD 40	Database Design	3.0
CISD 31	Database Management - Oracle	4.0
	 Microsoft SQL Server 	
CISD 21	Database Management	4.0

CIS Professional Certificate in C++ Programming

Computer Information Systems Department Certificate E0714

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	14.0	
CISP 34	Advanced C++ Programming	4.0	CSU,UC
CISP 31	Programming in C++	4.0	CSU,UC
CISP 10	Principles of Object-Oriented Design	2.0	
	•		
CISD 31	<u>or</u> Database Management – Oracle	4 0	
CISD 21	<u>or</u> Database Management — Microsoft SQL Server	4.0	
CISD 11	Database Management – Microsoft Access	4.0	

CIS Professional Certificate in Java Programming

Computer Information Systems Department Certificate E0700

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, navigating databases, and JavaBeans.

Requirements for the Certificate Required courses:

CISD 11	Database Management - Microsoft Access	4.0	CSU
CISD 21	<u>or</u> Database Management — Microsoft SQL Server	4.0	
	<u>or</u>		
CISD 31	Database Management - Oracle	4.0	
CISP 10	Principles of Object-Oriented Design	2.0	
CISP 21	Programming in Java	4.0	CSU,UC
CISP 24	Advanced Java Programming	4.0	
	Total Units	14.0	

CIS Professional Certificate in Networking

Computer Information Systems Department Certificate E0716

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:

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CISN 11	Telecommunications/ Networking Fundamentals	4.0	CSU
CISN 24	Microsoft NT Network System Administration	4.0	CSU
CISN 41	Novell Netware Systems Administration	4.0	CSU
	<u>or</u>		
CISN 34	LINUX Networking and Security	4.0	CSU
CISN 51	Cisco CCNA Networking Fundamentals and Routing	4.0	CSU
	Total Units	16.0	

CIS Professional Certificate in Oracle Computer Information Systems Department Certificate E0717

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	11.0
CISD 40	Database Design	3.0
CISD 32	Oracle Forms and Reports	4.0
CISD 31	Database Management	4.0

CIS Professional Certificate in Telecommunications

Computer Information Systems Department Certificate E0718

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	12.0	
	Fundamentals and Routing		
CISN 51	CISCO Networking		4.0
	Administration		
CISN 24	Windows Network System	4.0	
	Networking Fundamentals		
CISN 11	Telecommunications	4.0	CSU

CIS Professional Certificate in Visual Basic Programming

Computer Information Systems Department Certificate E0719

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:

negunea	ourses.		
CISP 10	Principles of Object-Oriented Programming	2.0	
CISP 11	Programming in Visual Basic	4.0	CSU,UC
CISP 14	Advanced Visual Basic Programming	4.0	CSU,UC
CISD 11	Database Management — Microsoft Access	4.0	
CISD 21	<u>or</u> Database Management — Microsoft SQL Server	4.0	
CISD 33	<u>or</u> Database Management – Oracle Total Units	4.0 14.0	

CIS Professional Certificate in Web Programming

Computer Information Systems Department Certificate E0713

This curriculum is designed for returning CIS professionals with several years of experience or current students who have completed several CIS courses. This program will prepare the student to develop programming skills needed to create effective Web pages and websites using various scripting or markup languages like JavaScript, VBScript, HTML, DHTML, and XML. Includes practical knowledge of how to install, manage, and troubleshoot Web servers and access information from a database server. Helps students in obtaining programming jobs with companies with a Web presence.

Requirements for the Certificate Required courses:

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

Coaching

Physical Education Department Certificate E0804

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
PE 34	Fitness for Living	3.0	CSU,UC
PE 44	Theory of Coaching	3.0	CSU
PE 81	Work Experience for Coaching	2.0	
	Total Units	11.0	
Exit Requirement: First Aid and CPR Certification			

Culinary Arts - Level I

Consumer Science and Design Technologies Certificate E1334

The Culinary Arts - Level I Certificate program will prepare students for food production job opportunities in the food service industry. The program emphasizes basic food preparation, commercial food production, and food safety and sanitation. Six units of elective courses allow the student to tailor the program to meet specific needs.

Requirements for the Certificate Required courses:

Food Cafety and Canitation

1 E (CII

HKM 52	Food Safety and Sanitation	1.5	C20
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
HRM 62	Catering	3.0	CSU
NF 61	Creative Foods	3.0	
NF 62	Meal Management	3.0	CSU
	Total Units	14.5	

Data Entry

HDM E3

Office Technology Department Certificate E0791

This program is intended to prepare students for employment as data entry operators, customer service representatives, receptionists, or entry-level office support staff positions. Training in a variety of computer skills is emphasized. Students desiring a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

Requirements for the Certificate Required courses:

	Total Units	11.0	
COMP 18	Data Entry	3.0	
CISB 15	<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	

Educational Paraprofessional - Level I Psychology and Education Department Certificate E2187

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 E0929

The Electronic Assembly and Fabrication Certificate is intended to prepare students to enter the electronics field 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 both throughhole and surface mount devices (SMD). Included are skills for various types of cabling and connections.

Electronic fundamentals (test instruments, basic electrical measurements, color-codes, schematic symbols, device outlines, etc.) are provided in the introductory courses.

Complete surface mount technology (SMT) skills are taught with a culmination in the IPC7711/IPC7721 rework and repair of electronic assemblies certification. Recertification is required every two years. ELEC 63 is a prep course for the recertification.

Requirements for the Certificate Required courses:

negan ca c	0413631		
ELEC 50A	Electronic Circuits (DC)	4.0	CSU
ELEC 61	Electronic Assembly and Fabrication	2.0	CSU
ELEC 62	Advanced Surface Mount Assembly and Rework	2.0	
EST 50	Electrical Fundamentals for Cable Installations	4.0	
	Total Units	12.0	

Recommended Electives:

ELEC 63 Electronic Assemblies Recertification

Electronic Systems Technology

- Level I

Electronics and Computer Technology Department Certificate E0990

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 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:*

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	
	Total Units	15.0	- 16.0

Emergency Medical Technician - Level I

Medical Services Department Certificate E1212

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 | 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.

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
- <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 E1329

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:*

TASIT 20	Design Total Units	14.0	
FASH 26	Drawing Fashion Computer Assisted	2.0	
FASH 25	Fashion Computer-Assisted	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 Merchandising - Level I Consumer Science and Design Technologies

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:

Certificate E1388

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

Fire Administration Fire Technology Department Certificate E2130

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 battalion 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:

FIRE 20	Fire Instructor 1A	2.0
FIRE 21	Fire Instructor 1B	2.0
FIRE 30	Fire Management 1	2.0
FIRE 40	Fire Prevention 1A	2.0
FIRE 41	Fire Prevention 1B	2.0
FIRE 50	Fire Command 1A	2.0
FIRE 51	Fire Command 1B	2.0
FIRE 60	Fire Investigation 1A	2.0
	Total Units	16.0

Fire Management **Fire Technology Department** Certificate E2131

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 3.0 CSU
	and Management

	Total Units	17.0	
FIRE 50	Fire Command 1A	2.0	
FIRE 30	Fire Management 1	2.0	
FIRE 21	Fire Instructor 1B	2.0	
FIRE 20	Fire Instructor 1A	2.0	
FIRE 10	Arson and Fire Investigation	3.0	CSU

Fitness Specialist/Personal Trainer Physical Education Department Certificate E0808

The Fitness Specialist/Personal Trainer Certificate prepares students for careers as personal trainers, health/fitness professionals in corporate fitness facilities, wellness centers and public/private health clubs. The Fitness Specialist/Personal Trainer Certificate curriculum is designed to prepare students who wish to take exams offered by the American Council on Exercise (ACE), the American College of Sports Medicine (ACSM) and other nationally recognized organizations. Technical skills necessary for implementation of a safe, effective and motivational physical fitness program are presented.

Requirements for the Certificate Required courses:

NF 10	Nutrition for Personal Health and Wellness	3.0	CSU
PE 15	Administration of Fitness Programs	2.0	
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	
	Total Units	17.0	

Recommended Electives:

DNCE 39A Alignment and Correctives I

Foster Care Child Development Certificate E1317

This certificate requires the completion of twelve (12)

Requirements for the Certificate Reauired courses:

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

Gallery Design/Operation and Art Profession

Fine Arts

Certificate E1020

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 careeroriented artistic perspective.

Requirements for the Certificate Required courses:

ARTG 20	Art, Artists and Society	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	4.0	CSU
	With InDesign or PageMaker		
COMP 62	Desktop Publishing With QuarkXpress	4.0	
	COMP 60	COMP 60 Desktop Publishing With InDesign or PageMaker COMP 62 Desktop Publishing	COMP 60 Desktop Publishing 4.0 With InDesign or PageMaker COMP 62 Desktop Publishing 4.0

Select one (1) course from:

	Total Units	17.0	
AHIS 6	History of Modern Art	3.0	CSU,UC
	Renaissance Through Modern		
AHIS 5	History of Western Art:	3.0	CSU,UC

Geographic Information Systems

History, Art History, Geography, **Political Science**

Certificate E2200

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 Syster	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 E1390

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:

negan ca c	oui sesi		
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		
	Total Units	7.5	

Hospitality: Hospitality Management - Level I

Consumer Science and Design Technologies Certificate E1332

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	
	in Restaurant/Hospitality		
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 E1333

The Hospitality: Restaurant Management - Level I Certificate prepares the holder for an entry-level position within a restaurant.

Requirements for the Certificate Required courses:

HRM 51	Introduction to Hospitality	5.0	CSU
HRM 52	Food Safety and Sanitation	1.5	CSU
HRM 53	Dining Room Service Management	3.0	CSU
HRM 91	Work Experience in Restaurant/Hospitality	1.0	CSU
	Total Units	8.5	

Information and Operating Systems Security Computer Information Systems Department Certificate E0731

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:

10.0
4.0
4.0
2.0

Introduction to Computer Information Technology

Computer Information Systems Department Certificate E0712

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.

Requirements for the Certificate Required courses:

	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 E1202

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 of 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:

- 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
- High school graduation or GED or academic degree from an accredited college/university in the United States.
- Possess a California Licensed Vocational Nurse 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 candidates prior to the beginning of nursing classes.
- 8. Current Level C-Provider CPR certification
- Nursing 70 Role Transition must be completed with a credit grade prior to entrance into the program. (NURS 70, Role Transition - Due to the clinical component of NURS 70, applicants must submit their names to 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 Required courses:

NURS 9 NURS 10	Leadership in Nursing Medical-Surgical Nursing:	1.0 4.0	CSU CSU
NURS 11	Integration/Regulation Preceptorship in Nursing	2.0	CSII
וו כווטוו	Total Units	15.0	(30

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.
- Students who have completed coursework at other colleges must bring the following information to their eliqibility 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.

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.

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 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 Technician & Manufacturing Technology Certificate E0956

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 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 Contro	2.0 I) Ope	CSU erations

PLUS

Select one (1) course from:

	Total Units	12.0
MFG 39	SurfCAM I	2.0 CSU
MFG 38	MasterCAM I	2.0 CSU

MasterCAM

Aircraft Maintenance Technician & Manufacturing Technology Certificate E0927

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:*

MFG 38B Advanced MasterCAM MFG 85 Manual CNC Program	6.0	
MFG 38B AGVANCEG MASTERCAM	2.0	
MEC 20D Advanced MactorCAM	2.0	(
MFG 38 MasterCAM I	2.0	(
MFG 11 Manufacturing Processes I	2.0	(

Nutrition Program Assistant - Level I Consumer Science and Design Technologies Certificate E1331

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

Food Safety and Sanitation

15 (SII

Requirements for the Certificate *Required courses:*

TIINIVI JZ	1000 Jaiety and Janitation	1.5	(30
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
	Total Units	10.5	

Nutrition Program Assistant - Level II: Child Program Emphasis Consumer Science and Design Technologies Certificate E1335

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
	<u>or</u>		
NF 25H	Essentials of Nutrition - Honors	3.0	CSU,UC
	<u>or</u>		
NF 10	Nutrition for Personal Health and Wellness	3.0	CSU

Plus the following courses:

	Total Units	16.5	
	of Young Children		
CHLD 64	Health, Safety and Nutrition	3.0	CSU
CHLD 10	Child Growth and Development	3.0	CSU,U
NF 28	Cultural and Ethnic Foods	3.0	CSU,U

Nutrition Program Assistant - Level II: Weight Management Program Emphasis

Consumer Science and Design Technologies Certificate E1336

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:*

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

Programs of Study Leading to a Certificate

	<u>or</u>		
NF 10	Nutrition for Personal Health and Wellness	3.0	CSU
NF 28	Cultural and Ethnic Foods	3.0	CSU,U
Plus the f	ollowing courses:		
NF 81	Cooking for Your Heart and Hea	alth1.0	
PE 34	Fitness for Living	3.0	CSU,U
PSYC 40	Introduction to Interviewing	3.0	
	and Counseling		
	Total Units	17.5	

Parametric Solid Modeling Aircraft Maintenance Technician & Manufacturing Technology Certificate E0923

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:

	Total Units	10.0
MFG 27	Autodesk Inventor	2.0
5 25	Modeling for Manufacturing	
MFG 25	Advanced Parametric Solid	2.0
	for Manufacturing	
MFG 19	Parametric Solid Modeling	2.0
MFG 17	3-D CAD - Mechanical Modeling	2.0
MFG 15	AutoCAD 2D	2.0

SurfCAM

Aircraft Maintenance Technician & Manufacturing Technology Certificate E0925

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	8.0
	(Computerized Numerical Co	ntrol) Operations
MFG 85	Manual CNC	2.0 CSU
MFG 39B	SurfCAM II	2.0 CSU
MFG 39	SurfCAM I	2.0 CSU
MFG 11	Manufacturing Processes I	2.0 CSU

Welding

Air Conditioning, Water & Welding Technologies **Certificate E0919**

This program is designed to prepare the student for employment in the broad field of welding and (1) leads to occupations in manufacturing and repair; and (2) helps prepare the student for positions in supervision.

Courses in the welding curriculum prepare students for welding certificates. The College is a testing agency for the City of Los Angeles, and is authorized to administer the performance test for the Structural Welding certificate. There is a \$50 charge for students and \$60 for nonstudents to take this test. Topics of the written portion of the test which is administered by the City are reviewed in various welding courses offered by the College.

Requirements for the Certificate Required courses:

	Total Units	8.0	
WELD 70B	Intermediate Arc Welding	3.0	
WELD 70A	Beginning Arc Welding	3.0	
WELD 40	Introduction to Welding	2.0	CSU

Note: Any higher level welding courses may be substituted for WELD 70A.

Recommended Electives:

MFG 70	Technical Mathematics	
	- Manufacturing Application	ons
WELD 60	Print Reading and Comput	ations for Welders
WELD 70C	Certification for Welders	T1279



Section 8

Programs of Study Leading to an Associate of Arts Degree or an Associate of 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 of 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 of Science degree and an Associate of 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 2009-2010

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-F, PE-I, PE-L, PE-S, PE-X with a grade of "C" or better or "CR".

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

READ 90 Preparing for College Reading

AMLA 33R American Language Advanced Reading

<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

Math 71X Practical Intermediate Algebra

- 2. Completing a more advanced college level mathematics course. or
- 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. SAC.

Additional Requirements for the Associate of 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 of 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:

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

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

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

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

A. Communication and Critical Thinking

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

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

B. Science and Mathematics

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

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

C. Humanities

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

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

D. Social Sciences

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

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

E. Lifelong Understanding and Self-Development

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

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

Adapted from CSU Executive Order 595 and Title 5 Section 40405.1

AREA A: Communication in the English Language (6 units): Select two (2) courses from the following: ENGL 1AH Public Speaking, or SPCH 1AA Public Speaking — Honors AREA B: The Physical Universe and Life (3 units): Select one (1) course from the Physical Sciences or Life Sciences: PHYSICAL SCIENCES ASTR 5 Introduction to Astronomy ASTR 5L Astronomical Observing Laboratory ASTR 5 Introduction to Astronomy ASTR 8 Introduction to Stars, Galaxies, and the Universe HUNIVERS CHEM 10 Introductory Organic and Biochemistry CHEM 10 Chemistry for Allied Health Majors CHEM 10 Chemistry I Honors CHEM 10 Chemistry I Honors CHEM 50 General Chemistry I Gen		GENERAL EDUCATION REQUIREMENTS FOR 2009-2010					
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METO 3L Weather and the Atmospheric Environment Laboratory OCEA 10 Introduction to Oceanography OCEA 10L Introduction to Oceanography – Honors OCEA 10L Introduction to Oceanography Laboratory PHSC 3 Energy Science PHSC 7 Physical Science PHSC 7L Physical Science Laboratory PHYS 1 Physics AHIS 3H History of Women and Gender in Art – Honors History of Western Art: Prehistoric Through Gothic – Honors AHIS 4H History of Western Art: Prehistoric Through Gothic – Honors AHIS 5 History of Western Art: Renaissance Through Modern History of Western Art: Renaissance Through Modern – Honors	GEOL 1	3 Evolution of the Earth	AHIS 2H				
Environment Laboratory OCEA 10 Introduction to Oceanography OCEA 10H Introduction to Oceanography – Honors OCEA 10L Introduction to Oceanography Laboratory PHSC 3 Energy Science PHSC 7 Physical Science PHSC 7 Physical Science Laboratory PHSC 7L Physics Environment Laboratory AHIS 4 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	METO 3	Weather and the Atmospheric Environment	AHIS 3	History of Women and Gender in Art			
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OCEA 10H Introduction to Oceanography – Honors OCEA 10L Introduction to Oceanography Laboratory PHSC 3 Energy Science PHSC 7 Physical Science PHSC 7L Physical Science Laboratory PHSC 7L Physics 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 4	,			
OCEA 10L Introduction to Oceanography Laboratory PHSC 3 Energy Science AHIS 5 History of Western Art: Renaissance PHSC 7 Physical Science AHIS 5History of Western Art: Renaissance PHSC 7L Physical Science Laboratory PHYS 1 Physics Through Modern — Honors							
PHSC 3 Energy Science AHIS 5 History of Western Art: Renaissance PHSC 7 Physical Science Through Modern PHSC 7L Physical Science Laboratory PHYS 1 Physics AHIS 5H History of Western Art: Renaissance Through Modern — Honors			AHIS 4H	,			
PHSC 7 Physical Science Through Modern PHSC 7L Physical Science Laboratory PHYS 1 Physics AHIS 5H History of Western Art: Renaissance Through Modern — Honors			ALUC E				
PHSC 7L Physical Science Laboratory AHIS 5H History of Western Art: Renaissance PHYS 1 Physics Through Modern — Honors			C CIUN				
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GENERAL EDUCATION REQUIREMENTS FOR 2009-2010 (continued)				
AUIC	·			
AHIS 6	History of Modern Art	FRCH 2	Continuing Elementary French	
AHIS 6H	History of Modern Art — Honors	FRCH 3	Intermediate French	
AHIS 9	History of Asian Art	FRCH 4	Continuing Intermediate French	
AHIS 10	A History of Greek and Roman Art and	FRCH 5	Advanced French	
11115 44	Architecture	FRCH 6	Continuing Advanced French	
AHIS 11	History of African, Oceanic, and Native	FRCH 60	French Culture Through Cinema	
11115 43	American Art	GERM 1	Elementary German	
AHIS 12	History of Precolumbian Art	GERM 2	Continuing Elementary German	
AHIS 12H	History of Precolumbian Art — Honors	GERM 3	Intermediate German	
ARCH 31	World Architecture I	*HIST 1	History of the U.S.	
ARCH 32	World Architecture II	*HIST 3	History of World Civilization	
ARTB 14	Basic Studio Arts	*HIST 3H	History of World Civilization — Honors	
ARTD 15A	Drawing: Beginning	*HIST 4	History of World Civilization	
ARTD 20	Design: Two-Dimensional	*HIST 4H	History of World Civilization — Honors	
ARTD 25A	Painting: Beginning	*HIST 7	History of the U.S.	
ARTG 20	Art, Artists and Society	*HIST 7H	History of the U.S. — Honors	
ARTS 22	Design: Three-Dimensional	*HIST 8	History of the U.S.	
ARTS 30A	Ceramics: Beginning	*HIST 8H	History of the U.S. — Honors	
ARTS 40A	Sculpture: Beginning	*HIST 10	History of Asia	
DN-T 20	History and Appreciation of Dance	*HIST 11	History of Asia	
ID 180	History of Interior Architecture and	*HIST 19	History of Mexico	
	Furnishings I	*HIST 30	History of the African American	
MUS 7	Fundamentals of Music	*HIST 31	History of the African American	
MUS 11A	Music Literature Survey	*HIST 35	History of Africa	
MUS 11B	Music Literature Survey	*HIST 36	Women in American History — Beyond	
MUS 12	History of Jazz		the Stereotypes	
MUS 13	Introduction to Music Appreciation	*HIST 39	California History	
MUS 13H	Introduction to Music Appreciation —	*HIST 40	History of the Mexican American	
	Honors	HUMA 1	The Humanities	
MUS 14A	World Music	ITAL 1	Elementary Italian	
MUS 14B	American Folk Music	ITAL 2	Continuing Elementary Italian	
MUS 15	Rock Music History and Appreciation	ITAL 3	Intermediate Italian	
PHOT 15	History of Photography	ITAL 4	Continuing Intermediate Italian	
SPCH 4	Oral Interpretation of Literature	ITAL 5	Advanced Italian	
THTR 9	Introduction to Theatre Arts	ITAL 6	Continuing Advanced Italian	
THTR 10	History of Theatre Arts	ITAL 60	Italian Culture Through Cinema	
THTR 11	Principles of Acting I	JAPN 1	Elementary Japanese	
HUMANITIES	;	JAPN 2	Continuing Elementary Japanese	
ARAB 1	Elementary Arabic	JAPN 3	Intermediate Japanese	
ARAB 2	Continuing Elementary Arabic	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 3	Multicultural American Literature	
	Types — Honors	LIT 6A	Survey of English Literature	
FRCH 1	Elementary French	LIT 6B	Survey of English Literature	
	not be double counted to satisfy more than o	ne area. even it	f a course is listed in more than one area.	
200.505 1110)				

	GENERAL EDUCATION REQUIRE	MENTS FOR	2009-2010 (continued)		
LIT 11A	World Literature	*HIST 36	Women in American History —		
LIT 11B	World Literature		Beyond the Stereotypes		
LIT 14	Introduction to Modern Poetry	*HIST 40	History of the Mexican American		
LIT 15	Introduction to Cinema	POLI 1	Political Science		
LIT 20	African American Literature	POLI 1H	Political Science — Honors		
LIT 25	Contemporary Mexican American	POLI 25	Politics of the Mexican American		
	Literature	POLI 35	African American Politics		
LIT 33	Images of Women in Literature	Elective Co	ourses – select at least one [1] course		
LIT 35	Science Fiction and Fantasy Survey		following list (3 units):		
LIT 36	Introduction to Mythology	AGAG 1	•		
LIT 40	Children's Literature	AUAU I	Food Production, Land Use and Politics — A Global Perspective		
LIT 46	The Bible as Literature: Old Testament	AGFR 20	Conservation of Natural Resources		
LIT 47	The Bible as Literature: New Testament	ANTH 3	Archaeology		
PHIL 5	Introduction to Philosophy	ANTH 5	Principles of Cultural Anthropology		
PHIL 5H	Introduction to Philosophy — Honors	ANTH 22	General Cultural Anthropology		
PHIL 12	Ethics	ANTH 30	The Native American		
PHIL 12H	Ethics — Honors	BUSC 1A	Principles of Economics — Macroeconomics		
PHIL 15	Major World Religions	BUSC 1AH			
PHIL 15H	Major World Religions — Honors	DOSC IAM	Macroeconomics — Honors		
PHIL 20A	History of Western Philosophy	BUSC 1B	Principles of Economics — Microeconomics		
PHIL 20B	History of Western Philosophy	BUSC 1BH	Principles of Economics —		
SIGN 101	American Sign Language 1	5036 1511	Microeconomics — Honors		
SIGN 102	American Sign Language 2	CHLD 1	Child, Family, School and Community		
SIGN 103	American Sign Language 3	CHLD 10	Child Growth and Development		
SIGN 104	American Sign Language 4 American Deaf Culture	CHLD 10H	Child Growth and Development — Honors		
SIGN 202 SPAN 1		GEOG 2	Human Geography		
SPAN 1	Elementary Spanish Continuing Elementary Spanish	GEOG 2H	Human Geography — Honors		
SPAN 3	Intermediate Spanish	GEOG 5	World Regional Geography		
SPAN 4	Continuing Intermediate Spanish	GEOG 8	The Urban World		
SPAN 5	Advanced Spanish	GEOG 30	Geography of California		
SPAN 6	Continuing Advanced Spanish	*HIST 3	History of World Civilization		
SPAN 11	Spanish for the Spanish Speaking	*HIST 3H	History of World Civilization — Honors		
SPAN 12	Continuing Spanish for the	*HIST 4	History of World Civilization		
317/11/12	Spanish Speaking	*HIST 4H	History of World Civilization — Honors		
SPAN 25	Spanish Literature	*HIST 10	History of Asia		
	Spanish Electature	*HIST 11	History of Asia		
AREA D:		*HIST 19	History of Mexico		
	litical and Economic Institutions	*HIST 35	History of Africa		
	U.S. History and American Institutions	*HIST 39	California History		
1	[1] course from the following:	*HIST 44	History of Native Americans		
*HIST 1	History of the U.S.	JOUR 100	Mass Media and Society		
*HIST 7	History of the U.S.	JOUR 107	Race, Culture, Sex, and Mass Media Images		
*HIST 7H	History of the U.S. — Honors	POLI 2	Political Science		
*HIST 8	History of the U.S.	POLI 5	Political Science Theory		
*HIST 8H	History of the U.S. – Honors	POLI 9	Introduction to International Relations		
*HIST 30	History of the African American	PSYC 1A	Introduction to Psychology		
*HIST 31	History of the African American	PSYC 1AH	Introduction to Psychology — Honors		
*Courses ma	y not be double counted to satisfy more than o	ne area, even i	if a course is listed in more than one area.		

	GENERAL EDUCATION REQUIREMENTS FOR 2009-2010 (continued)					
PSYC 14 PSYC 19 *PSYC 25 SOC 1 SOC 1H SOC 2 SOC 2H SOC 4 SOC 5 SOC 5H SOC 14 SOC 15 SOC 20 SOC 20H SPCH 7 SPCH 7H SPCH 26 SPCH 26H	Developmental Psychology Abnormal Psychology The Psychology of Women Sociology Sociology — Honors Introduction to Gerontology Introduction to Criminology Introduction to Criminology Introduction to Criminology — Honors Marriage and the Family Child Development Sociology of Ethnic Relations Sociology of Ethnic Relations — Honors Intercultural Communication Intercultural Communication Interpersonal Communication — Honors	BIOL 5 BIOL 13 BIOL 15H *CHLD 10 *CHLD 10H COUN 5 FCS 41 LEAD 55 NF 10 NF 25 NF 25H NF 28 PE 34 PSYC 14 *PSYC 25 PSYC 26	Contemporary Health Issues Human Reproduction, Development and Aging Human Sexuality Human Sexuality — Honors Child Growth and Development Child Growth and Development — Honors Career/Life Planning Life Management Exploring Leadership Nutrition for Personal Health and Wellness Essentials of Nutrition Essentials of Nutrition Essentials of Nutrition — Honors Cultural and Ethnic Foods Fitness for Living Developmental Psychology The Psychology of Women Psychology of Sexuality			
SOC 20H	Sociology of Ethnic Relations — Honors	NF 28	Cultural and Ethnic Foods			
1						
SPCH 7	Intercultural Communication	PE 34				
SPCH 7H	Intercultural Communication — Honors	PSYC 14	Developmental Psychology			
SPCH 26	Interpersonal Communication	*PSYC 25	The Psychology of Women			
SPCH 26H	Interpersonal Communication — Honors	PSYC 26				
(3 units):	nderstanding and Self-Development 1] course from the following:	PSYC 33 SOC 15	Psychology for Effective Living Child Development			
AD 3	Chemical Dependency: Intervention, Treatment and Recovery					

^{*}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 OF 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.

Accounting	Architectural Technology — Technology Concentration 72 Aviation Science
Advertising Design and Illustration	Business: Management

ALPHABETICAL LISTING — ASSOCIATI	E OF SCIENCE DEGREE (A.S.) (continued)
B-C (continued)	L
Computer Programmer — Database	Law Enforcement
Management Systems	Licensed Vocational Nurse to RN
Computer Programming	Livestock Management
Construction Inspection	
Correctional Sciences	M-N
	Manufacturing Technology
D-E	Marketing Management
Educational Paraprofessional	Mental Health Technology — Psychiaric
Electronics and Computer Engineering	Technician
Technology75	Nursing85
Emergency Medical Services	0-Q
Engineering Design Technology	Ornamental Horticulture
Equipment Technology	Paralegal/Legal — Bankruptcy Specialty
Escrow Management77	Paralegal/Legal — Corporations/
F	Business Specialty87
Family and Consumer Sciences	Paralegal/Legal — Criminal Specialty
Fashion Design	Paralegal/Legal — Family Law Specialty
Fashion Merchandising	Paralegal/Legal — Landlord/Tenant Specialty
Fire Technology	Park & Sports Turf Management
Fire Technology — Administration	Pet Science
Fire Technology — Administrative	Photography
Communications	Physical Education
Fire Technology — Administrative Law	Psychiatric Technician to RN
Fire Technology — Fire Management	<u>·</u>
Fire Technology – Fire Prevention	R
Fire Technology — Fire Training	Radio Broadcasting: Behind the Scenes90
Fire Technology — Private Fire Service	Radio Broadcasting: On the Air90
C II	Radiologic Technology91
G-H	Real Estate
General Business	Real Estate Appraisal92
Histologic Technician Training80	Registered Veterinary Technology
Horse Ranch Management	Respiratory Therapy93
Hospitality and Restaurant Management	S-T
Human Resource Management	Sign Language/Interpreting94
I-J-K	Small Business Management
Interior Design	Television Production
Interior Design — Kitchen and Bath Design81	
International Business	U-V-W
223.023	Welding

Arts Division Advertising Design and Illustration 69 Animation 73 Animation 74 Ani	LISTING BY INSTRUCTIONAL DIVISION –	– ASSOCIATE OF SCIENCE DEGREE (A.S.)
Accounting	Advertising Design and Illustration	Horse Ranch Management
Administrative Assistant 69 Business: Management 722 Business: Retail Management 722 Child Development 723 Computer Network Administration & Security Management 724 Computer Programmer – Database 724 Management 59stems 73 Computer Programming 744 Computer Programming 744 Scrow Management 777 Computer Programming 744 Scrow Management 777 Family and Consumer Sciences 777 Family and Consumer Sciences 777 Fashion Design 778 General Business 80 Hospitality and Restaurant Management 80 Human Resource Management 81 Interior Design 81 Interior Design Kitchen and Bath Design 81 Interior Design Kitchen and Bath Design 81 Interior Design Kitchen and Bath Design 81 Interior Design 181 Inte		•
	Administrative Assistant 69 Business: Management 72 Business: Retail Management 72 Child Development 73 Computer Network Administration & Security Management 74 Computer Programmer — Database Management Systems 73 Computer Programming 74 Escrow Management 77 Fasnion Design 77 Fashion Design 77 Fashion Merchandising 78 General Business 80 Hospitality and Restaurant Management 81 Interior Design 81 Interior Business 81 Marketing Management 83 Paralegal/Legal — Corporations/ 84 Business Specialty 86 Paralegal/Legal — Corporations/ 87 Business Specialty 87 Paralegal/Legal — Criminal Specialty 87 Paralegal/Legal — Criminal Specialty 87 Paralegal/Legal — Landlord/Tenant Specialty 87 Paralegal/Legal — Landlord/Tenant Specialty 88 Real Estate 92 Real Estate Appraisal 92 Small Business Management 94 Humanities & Social Sciences Division Educational Paraprofessional 75 Sign Language/Interpreting 94 Natural Sciences Division Agri-Technology — Design Concentration 71 Architectural Technology — Design Concentration 72 Chemical Laboratory Technology Concentration 72	Air Conditioning and Refrigeration 70 Airframe and Aircraft Powerplant Maintenance Technology — Day 70 Airframe and Aircraft Powerplant Maintenance Technology — Evening 70 Alcohol/Drug Counseling 71 Architectural Technology 71 Aviation Science 72 Commercial Flight 73 Computer and Networking Technology 74 Construction Inspection 74 Correctional Sciences 75 Electronics and Computer Engineering 75 Electronics and Computer Engineering 76 Erency Medical Services 75 Engineering Design Technology 76 Fire Technology Administration 78 Fire Technology Administrative Communications 78 Fire Technology Administrative Law 78 Fire Technology Fire Management 79 Fire Technology Fire Prevention 79 Fire Technology Fire Prevention 79 Fire Technology Fire Fraining 79 Fire Technology Private Fire Service 79 Law Enforcement 82 Licensed Vocational Nurse to RN 82 Manufacturing Technology Psychiatric 76 Technology 84 Nursing 85 Psychiatric Technician to RN 89 Radiologic Technology 91 Respiratory Therapy 93

Accounting

Accounting and Management Department Major S0502

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:

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 52	Intermediate Accounting		3.0	
BUSA 53	Ten-Key Calculations		2.0	
	<u>or</u>			
BUSA 81	Work Experience in Accou	unting	1.0	
BUSA 58	Federal Income Tax Law		3.0	
BUSA 70	Payroll and Tax Accounting	ıg	3.0	
BUSA 75	Using Microcomputers		1.0	
	in Financial Accounting			
	<u>or</u>			
BUSA 81	Work Experience in Accou	unting	1.0	
BUSA 76	Using Microcomputers		1.0	
	in Managerial Accounting	g		
	<u>or</u>			
BUSA 81	Work Experience in Accou	ınting	1.0	
BUSM 20	Principles of Business		3.0	CSU,UC
BUSO 25	Business Communication	IS	3.0	CSU
CISB 15	Microcomputer Applicati	ons	4.0	CSU,UC
	Total Units	36.0 - 3	7.0	

Administrative Assistant Office Technology Department Major S0514

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 core courses:				
BUSO 5	Business English	3.0		
BUSO 25	Business Communications	3.0	CSU	
BUSO 26	Oral Communications	3.0		
	for Business			
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 20	Word for the Business Professio	nal4.0		
COMP 28	Office Management Skills	3.0		
COMP 50	Desktop Presentations	4.0	CSU	
	Using PowerPoint			
COMP 68	Transcription Techniques	3.0		
PLUS				
Select one ((1) course from:			
COMP 11	Internet Research for Business	2.0	CSU	
COMP 13	Using Web Page Software	4.0	CSU	
COMP 18	Data Entry	3.0		
COMP 60	Business Publications Using	4.0	CSU	
	Desktop Publishing Software			
	Total Units	33.0	- 35.0	

Advertising Design and Illustration Commercial and Entertainment Arts Major S1003

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:	3.0	CSU,UC
	Lettering and Typography		
ARTC 66	Portfolio	3.0	
ARTC 70	Computer Graphics: Introduction	3.0	CSU
ARTC 165	Illustration	3.0	CSU
ARTC 171	Computer Graphics 2:	3.0	CSU
	Advanced Layout and Design		
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:		
AHIS 5	History of Western Art: Renaissance Through Modern	3.0	CSU,UC
	<u>or</u>		
AHIS 5H	History of Western Art		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
	Total Units	30.0	
Recommen	nded Electives:		
AHIS 4	History of Western Art:		
	Prehistoric Through Gothic		
ANIM 172	Motion Graphics With After Effect	cts	
ANIM 175	Web Animation With Flash		
ARTC 77	Computer Graphics: Illustration		
ARTC 78A	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 Photograp	ohy	

Agri-Technology Agricultural Sciences Department Major S0101

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 of 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 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 1	Food Production, Land Use and Politics - A Global Perspect		CSU,UC
AGAG 91	Agricultural Calculations	3.0	
AGAN 1	Animal Science	3.0	CSU,UC
AGOR 1	Horticultural Science	3.0	CSU
AGOR 32	Landscaping and Nursery Management	3.0	CSU
AGOR 56	Engine Diagnostics	3.0	CSU
AGOR 71	Landscape Construction Fundamentals	3.0	CSU
PLUS			

Select one (3) courses from:

AGFR 20	Conservation of Natural Resources 3.0		CSU,UC
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
AGOR 24	Integrated Pest Management	3.0	CSU
AGOR 62	Landscape Irrigation	3.0	CSU
	- Design and Installation		
AGPE 70	Pet Shop Management	3.0	
AGPE 71	Canine Management	3.0	
	Total Units	33.0	- 34.0

Air Conditioning and Refrigeration Air Conditioning, Water & Welding Technologies Major S0909

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

Requirements for the Major Required courses:

AIRC 10	Technical Mathematics	2.0
	in Air Conditioning and Refrigera	ation
AIRC 11	Welding for Air Conditioning	2.0
	and Refrigeration	
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	ration
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	ration
AIRC 32A	Air Properties and Measurement	t 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 Maintenance Technology-Evening Aircraft Maintenance Tech

& Manufacturing Dept.

Maior S0951

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 of Science Degree. Two state-awarded

certificates are also available upon successful completion of this program - one certificate in Airframe Maintenance Technology and one certificate in Aircraft Powerplant Maintenance Technology. Excellent opportunities for employment exist in this area of training. Certain administrative, quality control, and flight personnel careers require the applicant to hold a valid A & P Certificate.

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

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

Requirements for the Major Required courses:

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

AIRM 96B	Aircraft Powerplant Maintenance Technology	3.0
AIRM 97A	Aircraft Powerplant Maintenance Technology	3.0
AIRM 97B	Aircraft Powerplant Maintenance Technology	3.0
AIRM 98A	Aircraft Powerplant Maintenance Technology	3.0
AIRM 98B	Aircraft Powerplant Maintenance Technology	3.0
	Total Units	63.0

Recommended Electives:

necommen	ucu Licetives.
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 S0911

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 of Science Degree. Two state-awarded certificates are also available upon successful completion of this program - one certificate in Airframe Maintenance Technology and one certificate in Aircraft Powerplant Maintenance Technology. Excellent opportunities for employment exist in this area of training. Certain administrative, quality control, and flight personnel careers require the applicant to hold a valid A & P Certificate.

This program offers a day (full-time) or evening (part-time) program option. The only difference between the two options is the course numbering and time required to complete the program. Day program courses AIRM 65A

and 65B are equivalent to evening program courses AIRM 95A, 95B, 96A, 96B, 97A, 97B, 98A, and 98B. Day program courses AIRM 66A and 66B are equivalent to evening program courses AIRM 90A, 90B, 91A, 91B, 92A, 92B, 93A, and 93B. The evening program courses are offered in 9-week modules.

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

Requirements for the Major Required courses:

ı	nequireaco	ui ses.		
	AIRM 65A	Aircraft Powerplant Maintenance Technology	13.0	CSU
	AIRM 65B	Aircraft Powerplant Maintenance Technology	13.0	
	AIRM 66A	Airframe Maintenance Technology	13.0	CSU
	AIRM 66B	Airframe Maintenance Technology	13.0	
	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	

67.0

Recommended Electives:

Total Units

ne	commen	ueu Liettives.
Al	RM 74	Aircraft Maintenance Technology - Work Experience
ΑI	RM 80	Lab Studies in Aircraft
		Maintenance Technology
EC	T 12	Technical Engineering Drawing II
EL	EC 90	Survey of Electronics
M	FG 70	Technical Mathematics - Manufacturing Applications
Pŀ	HYS 1	Physics

Alcohol/Drug Counseling Public Services Department Major S2101

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.

Requirements for the Major Required core 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 Re	3.0 ecovery	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 skilled 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	3.0
	and Referral	

Required field work courses:

AD 13	internsnip/Seminar	3.5 CSU
AD 14	Advanced Internship/Seminar	3.5 CSU
PLUS		

Select six (6) units from:

Select SIX (0) units irom:			
CHLD 10	Child Growth and Development	3.0	CSU,UC	
CIII D 10II	Or	2.0	ccuruc	
CHLD 10H	Child Growth and Development - Honors	3.0	CSU,UC	
PSYC 1A	Introduction to Psychology	3.0	CSU,UC	
	<u>or</u>			
PSYC 1AH	Introduction to Psychology - Honors	3.0	CSU,UC	
PSYC 19	Abnormal Psychology	3.0	CSU,UC	
SOC 1	Sociology	3.0	CSU,UC	
	<u>or</u>			
SOC 1H	Sociology - Honors	3.0	CSU,UC	

	Total Units	40.0	
SOC 15	Child Development	3.0	CSU,UC
SOC 14	Marriage and the Family	3.0	CSU,UC

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
- Restricted Electives can be taken in conjunction with core and skills courses
- c) Refer to Schedule of Credit Classes for sequence of courses
- d) 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 S1006

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.

Requirements for the Major Required courses:

ı	negun cu co	ui sesi		
	ANIM 101	Drawing - Gesture and Figure	3.0	CSU
	ANIM 104	Drawing Fundamentals	3.0	CSU
		<u>or</u>		
	ARTD 15A	Drawing: Beginning	3.0	CSU,U
	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	3.0	
		Computer Animation		
	ARTC 70	Computer Graphics: Introduction	1 3.0	CSU
	ARTD 17A	Drawing: Life	3.0	CSU,U
	ARTD 20	Design: Two Dimensional	3.0	CSU,U
	ARTS 22	Design:Three-Dimensional	3.0	CSU,U
	PLUS			
	Select one (2) courses from:		
	ANIM 117	Animation Background Layout	3.0	CSU
	ANIM 120	Script Development	3.0	
		for Animation		
	ANIM 132	Modeling, Texture Mapping and Lighting	3.0	
	ANIM 175	Web Animation With Flash	3.0	
	ARTD 16	Drawing: Perspective	3.0	CSU,U
		Total Units	36.0	•
п				

Recommended Electives:

ANIM 111 Animal Drawing

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

ANIM 118	Background Painting
ANIM 120	Script Development for Animation
ANIM 134	Dynamic Digital Environments
ANIM 135	Visual Effects II: Particle Systems
ANIM 148	Demo-Reel
ARTD 25A	Painting: Beginning

Architectural Technolog - Design Concentration

Architecture and Engineering Design Department Major S0202

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 courses:

ı	negunea co	ui sesi		
	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 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:		
ı	ADCII 1E	A 1.5 (1)A/ 1.5	2 0	CCII

Scient one (1) tourse from:			
ARCH 15	Architectural Working Drawings - I	3.0	CSL
ARCH 18	Architectural Computer Aided Design Elements	3.0	
PHIS			

PLUS

					-
ı١	ort	nne	(1)	course	from

Select one (1) course ironi.			
ARCH 14	Building and Zoning Codes	3.0	
ARCH 15	Architectural Working	3.0	CSU
	Drawings - I		

_			
	Total Units	38.0	40.0
INSP 70	Elements of Construction	3.0	CSU
ARCH 90	Architectural Work Experience	2.0	
ARCH 89	Architectural Work Experience	1.0	
	3-D Illustration and Animation		
ARCH 28	Architectural CAD	3.0	CSU
	Working Drawings		
ARCH 26	Architectural CAD	3.0	
ARCH 18	Architectural Computer Aided Design Elements	3.0	
1001140	1 12 . 16 .	2.0	

Recommended Electives:

ARTD 15A	Drawing: Beginning
ARTD 20	Design: Two Dimensional
ARTS 22	Design:Three-Dimensional
BIOL 6	Humans and the Environment
ENGL 1C	Critical Thinking and Writing
MATH 150	Trigonometry
PHYS 2AG	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 S0201

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:

negunea	Loui 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 -	- 2.0
EDT 26	Civil Engineering Technology and CAD	3.0	CSU
INSP 71	Construction Estimating	3.0	CSU
	Total Units	38.0	40.0

Recommended Electives:

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.

Aviation Science

Aeronautics, Transportation and Travel Department Major S0910

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

Required	courses:
4 500 00	ъ.

neguneaco	ui ses.		
AERO 23	Primary Pilot Ground School	4.0	CSU
AERO 24	Navigation	3.0	CSU
AERO 26	Aviation Weather	3.0	CSU
AERO 27	Aviation Safety and Human Factors	3.0	CSU
AERO 29	Federal Aviation Regulations	2.0	CSU
AERO 30	Instrument Ground School	3.0	CSU

AIRT 41 AIRT 42	Aircraft Recognition and Performance Air Traffic Control Environment		CSU CSU
AIRT 43	Air Traffic Control Team Skills	1.5	CSU
CISB 11	Computer Information Systems	3.5	CSU,U
TRAN 17	Air Transportation	3.0	CSU
	Total Units	31.0	

Recommended Flectives:

necommen	ucu Lictives.
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 S0506

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

Requirements for the Major Required courses:

BUSA 7	Principles of Accounting - Financial	5.0	CSU,UC
BUSM 10	Principles of Continuous Quality Improvement	3.0	
BUSM 20	Principles of Business	3.0	CSU,UC
BUSM 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	

Recommended Electives:

BUSM 81	Work Experience in Business
BUSM 85	Special Issues in Business
BUSS 85	Special Issues in Marketing

Business: Retail Management Accounting and Management Department Major S0509

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:

neganeace	, ai ses.		
BUSA 7	Principles of Accounting - Financial	5.0	CSU,UC
	<u>or</u>		
BUSA 72	Bookkeeping - Accounting	5.0	
BUSA 11	Fundamentals of Accounting	3.0	
BUSM 60	Human Relations in Business	3.0	CSU
BUSM 61	Business Organization and Management	3.0	CSU
BUSM 62	Human Resource Management	3.0	
BUSO 25	Business Communications	3.0	CSU
BUSO 26	Oral Communications for Business	3.0	
BUSS 36	Principles of Marketing	3.0	CSU
CISB 15	Microcomputer Applications	4.0	CSU,UC
FASH 62	Retail Store Management and Merchandising	3.0	CSU
	<u>or</u>		
BUSS 50	Retail Store Management and Merchandising	3.0	
	Total Units	33.0	
I			

Chemical Laboratory Technician Biological Sciences Department Major S0950

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 troubleshooting of experimental designs and outcomes.

Requirements for the Major Required courses:

•		
BUSM 10	Principles of Continuous	3.0
	Quality Improvement	

CHEM 20	Introductory Organic and Biochemistry	5.0	CSU,UC	CH
CHEM 50	General Chemistry I	5.0	CSU,UC	CH
CHEM 51	General Chemistry II	5.0	CSU,UC	
CHEM 60	Quantitative Chemical Analysis	5.0	CSU,UC	CH
CHEM 75	Instrumental Analysis	5.0		
CHMT 1	Introduction to Chemical Laboratory Technology	3.0		CH
CHMT 8	Work Experience in Chemical Technology	1.0		CH CH
CHMT 9	Work Experience in Chemical Technology	2.0		CH
PLUS				(H
Select six (6) units from:			C
CHMT 5	Elementary Principles of Chemical Processing	2.0	CSU	
MICR 22	Microbiology	4.0	CSU,UC	No
PHIL 12	Ethics or	3.0	CSU,UC	De De
PHIL 12H	Ethics - Honors	3 0	CSU,UC	Re
SPCH 26			CSU,UC	CH
3PCH 20	Interpersonal Communication or	3.0	(30,00	CH
SPCH 26H	Interpersonal Communication - Honors	3.0	CSU,UC	CH CH
	Total Units	40.0		CH

Child Development Child Development Major S1315

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 of 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:

negun cu co	ui ses.		
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	CSU

CHLD 66	Early Childhood Development Observation	2.0 CSU
CHLD 66L	Early Childhood Development Observation Laboratory	1.0 CSU
CHLD 67	Early Childhood Development Participation	2.0 CSU
CHLD 67L	Early Childhood Development Participation Laboratory	1.0 CSU
CHLD 68	Children With Special Needs	3.0 CSU
CHLD 69	Early Childhood Development Field Work Seminar	2.0 CSU
CHLD 84	Guidance and Discipline in Child Development Settings	1.0 CSU
CHLD 91	Early Childhood Development Field Work	1.0 CSU
	Total Units	28.0

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

Recommended Electives:

CHLD 50	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 S0912

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:

negunea co	413631		
AERO 23	Primary Pilot Ground School	4.0	CSU
AERO 24	Navigation	3.0	CSU
AERO 25	Commercial Pilot Ground School	3.0	CSU
AERO 26	Aviation Weather	3.0	CSU
AERO 27	Aviation Safety	3.0	CSU
	and Human Factors		
AERO 28	Aircraft and Engines	3.0	CSU
AERO 29	Federal Aviation Regulations	2.0	CSU
AERO 30	Instrument Ground School	3.0	CSU
TRAN 17	Air Transportation	3.0	CSU
	Total Units	27.0	

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 - Database Management Systems

Computer Information Systems Department Major S0706

The Computer Information Systems major is a two-year program leading to the Associate of Science (A.S.) Degree. The program is designed to prepare students for employment in a computer field following graduation. Students wishing a Bachelors' Degree (transfer program) should meet with a counselor or advisor to discuss transferability of courses.

Coursework includes a list of core courses and additional courses for each concentration. The Database Management Systems Concentration includes coursework in the design, development and maintenance of relational databases. Students choosing this concentration have the option of selecting either the Microsoft or Oracle concentration.

Requirements for the Major Required core courses:

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
CISN 21	Windows Operating System	4.0	
	<u>or</u>		
CISN 31	Linux Operating Systems	4.0	
BUSM 20	Principles of Business	3.0	
	<u>or</u>		
BUSM 25	Principles of E-Commerce	3.0	
	<u>or</u>		
BUSA 7	Principles of Accounting	5.0	
	- Financial		

PLUS

Select one of the following two concentrations: Microsoft Concentration:

	oncenti acioni		
CISD 11	Database Management	4.0	CSU
- Microsoft	Access		
CISD 14	Advanced Database	4.0	
	Management - Microsoft Access	;	
CISD 21	Database Management	4.0	
	- Microsoft SQL Server		
CISD 40	Database Design	3.0	
Oracle Cond	entration:		
CISD 31	Database Management - Oracle	4.0	
CISD 32	Oracle Forms and reports	4.0	
CISD 40	Database Design	3.0	
	Total Units	29.0	- 35.0

Computer Graphics Design/Photography Commercial and Entertainment Arts

Major S1005

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:

negan ca co	negan ca courses.				
GRAP 1	Computer Graphics Lab	1.0			
GRAP 10	Photo Editing with Photoshop	3.0			
GRAP 12	Advanced Photo Editing	3.0			
	with Photoshop				

GRAP 14	Digital Color Management	3.0			
GRAP 16	Digital Image Design with Illustrator & Freehand	3.0			
GRAP 18	Advanced Image Design - 3D Modeling Techniques	3.0			
GRAP 20	Applying Photos and Images in Multimedia	3.0			
GRAP 28	Digital Portfolio	2.0			
PHOT 10	Beginning Photography	3.0	CSU,UC		
PHOT 17	Photocommunication	3.0			
	Total Units	27.0			
O					

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 and Networking Technology

Electronics and Computer Technology Department Major S0725

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 c	ourses:		
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+	3.0	
	Certification Preparation		
CNET 64	Server +	3.0	
	Certification Preparation		
CNET 66	Security +	3.0	
	Certification Preparation		
ELEC 11	Technical Applications in Microcomputers	3.0	CSU
	<u>or</u>		
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	1.0	
	for the Technician		
	Total Units	44.0	- 45.0
Recommer	nded Electives:		

Computer Network Administration and Security Management

Electronic Devices

Microprocessor Systems

ELEC 51

ELEC 74

Computer Information Systems Department Major S0701

Computer Network Administration and Security Management is a two-year program leading to the Associate of 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 Required courses:						
Telecommunications/ Networking Fundamentals	4.0	CSU				
Microsoft NT Network System Administration	4.0	CSU				
Cisco CCNA Networking Fundamentals and Routing	4.0	CSU				
Network Vulnerabilities and Countermeasures	4.0	CSU				
Network Analysis and NIDS	4.0	CSU				
Network Security and Firewalls	4.0	CSU				
Linked Service Learning	1.0	CSU				
(1) course from:						
Computer Information Systems	3.5	CSU,UC				
Windows Operating System	4.0	CSU				
Linux Operating System	4.0	CSU				
LINUX Networking and Security	4.0	CSU				
Novell Netware Systems Administration	4.0	CSU				
Total Units 28.5 - 29.0						
	Telecommunications/ Networking Fundamentals Microsoft NT Network System Administration Cisco CCNA Networking Fundamentals and Routing Network Vulnerabilities and Countermeasures Network Analysis and NIDS Network Security and Firewalls Linked Service Learning (1) course from: Computer Information Systems Windows Operating System Linux Operating System LINUX Networking and Security Novell Netware Systems Administration	Telecommunications/ 4.0 Networking Fundamentals Microsoft NT Network 4.0 System Administration Cisco CCNA Networking 4.0 Fundamentals and Routing Network Vulnerabilities 4.0 and Countermeasures Network Analysis and NIDS 4.0 Network Security and Firewalls 4.0 Linked Service Learning 1.0 (1) course from: Computer Information Systems 3.5 Windows Operating System 4.0 LINUX Networking and Security 4.0 Novell Netware Systems 4.0 Administration				

Computer Programming

Computer Information Systems Department Major S0709

The Computer Programming major is a two-year program leading to the Associate in Science (A.S.) Degree. It is designed to prepare students for employment as a computer programmer following graduation. Students wishing a Bachelor's Degree (transfer program) should meet with a counselor or advisor to discuss transferability of courses.

Course work includes a list of core courses and additional courses for each concentration. The Computer Programming degree emphasizes the development of applications in a business environment using objectoriented methodologies. Students may select one of four programming language concentrations: C++, Visual Basic, Java or C#.

Requirements for the Major Required courses:

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
CISN 21	Windows Operating System	4.0	
	<u>or</u>		
CISN 31	Linux Operating System	4.0	

	CICD 40	011 + 01 + 10 1	2.0
	CISP 10	Object-Oriented Design	2.0
	BUSM 20	Principles of Business	3.0
		<u>or</u>	
	BUSM 25	Principles of E-Commerce	3.0
		<u>or</u>	
	BUSA 7	Principles of Accounting - Financial	5.0
	CISD 11	Database Management - Microsoft Access	4.0
		<u>or</u>	
	CISD 21	Database Management	4.0
		- Microsoft SQL Server	
		<u>or</u>	
	CISD 31	Database Management - Oracle	4.0
	DILLIC		
	PLUS		
		following concentrations:	
		following concentrations:	
	One of the f	following concentrations: Programming in C++	4.0
	One of the f	•	4.0 4.0
	One of the f C++: CISP 31	Programming in C++ Advanced C++ Programming	
	One of the f C++: CISP 31 CISP 34	Programming in C++ Advanced C++ Programming	
	One of the for C++: CISP 31 CISP 34 Visual Basic	Programming in C++ Advanced C++ Programming	4.0
	One of the for C++: CISP 31 CISP 34 Visual Basic CISP 11	Programming in C++ Advanced C++ Programming c: Programming in Visual Basic	4.0
	One of the for C++: CISP 31 CISP 34 Visual Basic CISP 11	Programming in C++ Advanced C++ Programming c: Programming in Visual Basic Advanced Visual Basic	4.0
	One of the f C++: CISP 31 CISP 34 Visual Basia CISP 11 CISP 14	Programming in C++ Advanced C++ Programming c: Programming in Visual Basic Advanced Visual Basic	4.0
	One of the for C++: CISP 31 CISP 34 Visual Basic CISP 11 CISP 14 Java:	Programming in C++ Advanced C++ Programming c: Programming in Visual Basic Advanced Visual Basic Programming	4.0 4.0 4.0
_	One of the 1 C++: CISP 31 CISP 34 Visual Basic CISP 11 CISP 14 Java: CISP 21	Programming in C++ Advanced C++ Programming C: Programming in Visual Basic Advanced Visual Basic Programming Programming in Java	4.0 4.0 4.0 4.0
	One of the for C++: CISP 31 CISP 34 Visual Basic CISP 11 CISP 14 Java: CISP 21 CISP 24	Programming in C++ Advanced C++ Programming Programming in Visual Basic Advanced Visual Basic Programming Programming in Java Advanced Java Programming Programming in C#	4.0 4.0 4.0 4.0
	One of the for C++: CISP 31 CISP 34 Visual Basic CISP 11 CISP 14 Java: CISP 21 CISP 24 C#:	Programming in C++ Advanced C++ Programming Programming in Visual Basic Advanced Visual Basic Programming Programming Advanced Java Programming	4.0 4.0 4.0 4.0 4.0

Construction Inspection Architecture and Engineering **Design Department**

Total Units

Maior S0920

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:

ARCH 12	Architectural Materials	3.0	CSU
	and Specifications		
ARCH 14	Building and Zoning Codes	3.0	
INSP 17	Legal Aspects of Construction	3.0	CSU
INSP 70	Elements of Construction	3.0	CSU
INSP 71	Construction Estimating	3.0	CSU

32.0 - 34.0

וכאוו	Inspection	5.0
	Total Units	18.0
Recomme	nded Electives:	
ARCH 11	Architectural Drawing	
ARCH 15	Architectural Working Drawing	s - I

Reading Construction Drawings

Fundamentals of Construction 3.0

Correctional Sciences Public Services Department Major S2103

INICD 07

INSP 67

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

Requirements for the Major Required courses:

ADJU 68	Administration of Justice Report Writing	3.0	
CORS 10	Introduction to Correctional Sciences	3.0	CSU
CORS 15	Control and Supervision of the Offender	3.0	
CORS 20	Correctional Law	3.0	
CORS 25	Probation and Parole	3.0	
CORS 30	Ethnic Relations in Corrections	3.0	
PLUS			
Select four ((4) courses from:		
ADJU 1	The Administration of Justice System	3.0	CSU,UC
ADJU 2	Principles and Procedures of the Justice System	3.0	CSU
ADJU 20	Principles of Investigation	3.0	CSU
ADJU 38	Narcotics Investigation	3.0	
ADJU 59	Gangs in the Community/ Corrections	3.0	CSU
ADJU 59 CORS 35	Gangs in the Community/		CSU

CORS 40	Crime and Delinquency	3.0
CORS 45	The Violent Offender	3.0
	Total Units	30.0
Recomme	nded Electives:	
PE-F 50	Physical Skills Preparation f Enforcement and Fire Scien	
PE-F 51	Agility Testing Preparation Enforcement and Fire Scien	
PE-F 52	Fitness and Conditioning for Fire Science and Forestry	r Law Enforcemer
SPAN 66	Spanish for Fire and Police	Personnel

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

Educational Paraprofessional Psychology and Education Department Major S2117

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 51 CHLD 64

LIT 40

PE 3

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	
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:				

Early Literacy in Child Development

Children's Literature

First Aid and CPR

Health, Safety and Nutrition of Young Children

Electronics and Computer Engineering Technology

Electronics and Computer Technology Department Major S0906

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:

ı	nequireu co	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 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 Flectives:

necommended Electives.		
CISP 11	SP 11 Programming in Visual Basic	
EDT 11	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 S1210

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 of 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:

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

Recommended Electives:

ADJU 1 The Administration of Justice 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.
- 5) Take the AWE (Assessment of Written English, the Mt. SAC Math Placement test, and the Degrees of Reading Power reading test at least ten working days before the state of the pre-course (EMS 1). Placement examinations will be individually assessed 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 Office.

NOTE: If the course(s) were taken and/or the degree obtained at Mt. San Antonio College, it is not necessary to request transcripts.

Indicate in the mailing address the program for which transcripts are being sent to the Technology and Health Division Office.

EXAMPLE: Mt. San Antonio College Technology and Health Division Paramedic Program 1100 North Grand Avenue Walnut. CA 91789-1399

8) A physical examination, proof of certain immunizations, and a criminal background check are required of all candidates after acceptance to the program and before entrance into the clinical setting. Forms and information will be provided upon acceptance into the program. In addition, drug testing may be required as part of the physical examination and/or requested by the college or one of its agents.

Entrance Procedure:

In determining eligibility, consideration will be given to the following:

- 1) Completion of all admission requirements
- 2) EMS-related experience
- 3) Scores on the English assessment and math placement tests
- 4) 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:

- <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
- <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 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 Maior S0913

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	1 3.0	CSU
EDT 14	Mechanical Design	3.0	CSU
	- Geometric Dimensioning and Tolerancing		
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 S0118

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 Reauired courses:

AGAG 1	Food Production, Land Use	3.0	CSU,UC
	and Politics - A Global Perspective	ve	
AGAG 59	Work Experience in Agriculture	1.0 -	4.0
AGOR 51	Tractor and Landscape	3.0	CSU
	Equipment Operations		
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	3.0	CSU
	Fundamentals		
AGOR 72	Landscape Hardscape Application	ns3.0	CSU
CISB 15	Microcomputer Applications	4.0	CSU,UC
	Total Units	35.0	38.0

Escrow Management

Business Administration Department Major S0511

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	
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	

Recommended Electives:

ROZA 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
	BUSL 18H BUSM 62 BUSO 5 BUSR 52 BUSR 52D BUSR 57 PSYC 1A

Family and Consumer Sciences Consumer Science and Design Technologies Major \$1309

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
	<u>or</u>		
CHLD 10H	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 S1320

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

Requirements for the Major Required courses:

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,U
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 and Product Development I	3.0	
FASH 31	Fashion Design and Product Development II	3.0	
FASH 32	Fashion Design and Product Development III	3.0	
	Total Units	39.0	

Recommended Electives:

FASH 26	Fashion Computer Assisted Design
FASH 81	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 90, FASH 91, and FASH 92 may be taken two times for credit.

Fashion Merchandising

Consumer Science and Design Technologies Major S1308

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:

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 15	Fashion Strategies	3.0	CSU
FASH 17	Textiles	3.0	CSU,U
FASH 30	Fashion Design and Product Development I	3.0	
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 or	3.0	CSU
BUSS 33	Advertising and Promotion	3.0	CSU
FASH 66	Visual Merchandising Display	3.0	CSU
	Total Units	27.0	

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

FASH 90, FASH 91 and FASH 92 may be taken two times for credit.

Fire Technology

Fire Technology Department Major S2105

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 Select two	o (2) course from:		

Select two (2) course trom:		
EMT 90	Emergency Medical Technician I	10.0	
FIRE 7	Fire Fighting Tactics and Strategy	y 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	2.5	CSU
	for the Basic Fire Academy		
	Total Units	23.5	- 40.0

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 PE-F 50	Fire Investigation 1B Physical Skills Preparation for Administration of Justice and Fire Technology
PE-F 51	or Agility Testing Preparation for Administration of Justice and Fire Technology
PE-F 52	<u>or</u> Fitness and Conditioning for Administration of Justice, Fire Technology, and Forestry
SPAN 66	Spanish for Fire and Police Personnel

Fire Technology - Administration Fire Technology Department Maior S2106

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
CISP 11	Basic Programming	4.0	CSU,UC
FIRE 1	Fire Protection Organization	3.0	CSU
FIRE 8	Fire Company Organization and Management	3.0	CSU
FIRE 30	Fire Management 1	2.0	
	Total Units	20.5	

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 S2107

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	18.5	
FIRE 21	Fire Instructor 1B	2.0	
FIRE 20	Fire Instructor 1A	2.0	
111120	and Management	5.0	230
FIRE 8	Fire Company Organization	3.0	CSU
FIRE 1	Fire Protection Organization	3.0	CSU
CISB 11	Computer Information Systems	3.5	CSU,UC
BUSA 7	Principles of Accounting - Financial	5.0	CSU,UC
DUCAZ	D · · · I CA · ·	F 0	-

Recommended Electives:

FIRE 2	Fire Prevention Technology
FIRE 30	Fire Management 1
FIRE 40	Fire Prevention 1A
FIRE 41	Fire Prevention 1B
SPAN 66	Spanish for Fire and Police Personnel

Fire Technology - Administrative Law

Fire Technology Department Major S2108

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:

neguneaco	nequirea 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	CSI
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 S2109

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 The following courses

THE TOHOWH	ig 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	35.0	

Recommended Electives:

Recommend	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 S2110

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			
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			
Recommen	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 S2111

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

Recommended Electives:

	necommen	ueu Liettives.
	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
t.	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 S2112

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	
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	

Recommended 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 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

General Business

Accounting and Management Department Major S0501

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.

5.0 CSILUC

Requirements for the Major Required courses:

Principles of Accounting

RUSA 7

BUSA /	- Financial	5.0	(30,00
	<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
BUSM 10	Principles of Continuous	3.0	
	Quality Improvement		
BUSM 20	Principles of Business	3.0	CSU,UC
BUSM 60	Human Relations in Business	3.0	CSU
BUSM 61	Business Organization	3.0	CSU
D.1161.1.40	and Management		
BUSM 62	Human Resource Manageme		
BUSO 5	Business English	3.0	
BUSO 25	Business Communications	3.0	CSU
BUSS 36	Principles of Marketing	3.0	CSU
CISB 15	Microcomputer Applications	4.0	CSU,UC
PLUS			
Select six (6,) units from:		
BUSA	Business: Accounting	1.0 - 5.0	CSU,UC
BUSC	Business: Economics	3.0	CSU,UC
BUSL	Business: Law	1.0 - 3.0	CSU,UC
BUSM	Business: Management	1.0 - 4.0	CSU,UC
BUSS	Business: Sales,	1.0 - 4.0	CSU
	Merchandising and Marketin	-	
CISB	Computer Information	2.0 - 4.0	CSU,UC
50110	Systems: Beginning	0 5 4 0	ccu
COMP	Computer Applications	0.5 - 4.0	CSU
	Total Units	42.0	

Histologic Technician Training Biological Sciences Department Major S1211

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:

Total Units

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
CHEM 10	Chemistry for Allied Health Majors	4.0	CSU,UC
	<u>or</u>		
CHEM 50	General Chemistry I	5.0	CSU,UC
HT 1	Introduction to Histotechnology	1.0	
HT 2	Scientific Basics for	3.0	
	Histologic Technicians		
HT 10	Histology	3.0	
HT 12	Beginning Histotechniques	5.0	
HT 14	Advanced Histotechniques	4.0	
HT 16	Histochemistry/ Immunohistochemistry	4.0	
HT 17	Work Experience In Histotechnology	1.0	- 4.0
MICR 1	Principles of Microbiology	5.0	CSU,UC
	<u>or</u>		
MICR 22	Microbiology	4.0	CSU,UC

41.0 - 44.0

Horse Ranch Management Agricultural Sciences Department Major S0102

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

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

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

Requirements for the Major Required courses:

AGAB 20	Microcomputer Applications in Agriculture	3.0	CSU,UC
AGAG 59	Work Experience in Agriculture 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:

AGHE 84A	iHE 84A Applied Animal Health Procedures 1.0				
AGOR 53	Small Engine Repair I	3.0	CSU		
AGOR 71	Landscape Construction	3.0	CSU		
Fundament	als				
BUSM 20	Principles of Business	3.0	CSU,UC		
BUSM 66	Small Business Management	3.0	CSU		
	Total Units	33.0	- 36.0		

Hospitality and Restaurant Management

Consumer Science and Design Technologies Major S1307

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

Requirements for the Major Required courses:

nequireu co	urses.		
HRM 51	Introduction to Hospitality	3.0	CSU
HRM 52	Food Safety and Sanitation	1.5	CSU
HRM 53	Dining Room Service Managemen	nt3.0	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 Elective:

HRM 91 Work Experience in Restaurant/Hospitality

Human Resource Management Accounting and Management Department Major S0530

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 Reauired courses:

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

Interior Design

Consumer Science and Design Technologies Major S1301

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: ARCH 11 Architectural Drawing

ARCH 13	Architectural Illustration	3.0	CSU,U
ARCH 15	Architectural Working	3.0	CSU
	Drawings - I		
ARCH 16	Basic CAD	4.0	CSU,U
	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
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	3.0	CSU
	& Furnishings I		
ID 190	History of Interior Architecture	3.0	CSU
	& Furnishings II		
ID 210	Fundamentals of Lighting	3.0	
ID 215	Interior Design Studio II	2.0	CSU
ID 230	Business and Professional	3.0	
	Practice		
ID 240A	Interior Design Internship	1.0	
	Seminar		
ID 2 40D	<u>and</u>	4.0	
ID 240B	Interior Design Internship	1.0	
	Total Units	50.0	
	ded Electives:		
ARCH 23	Architectural Presentations		
ARTD 15A	Drawing: Beginning		

Bookkeeping - Accounting

Life Management

BUSA 72

FCS 41

Interior Design

3.0 CSU.UC

- Kitchen And Bath Design

Consumer Science and Design Technologies Major S1302

This program provides for immediate opportunity to seek employment in the area of kitchen and bath design. The program is available as an Associate of 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 Reauired courses:

ARCH 11	Architectural Drawing	3.0	CSU,UC
ARCH 15	Architectural Working Drawings - I	3.0	CSU
ARCH 16	Basic CAD and Computer Application	4.0	CSU,UC
ID 100	Fundamentals of Interior Design	3.0	CSU
ID 105	Interior Design Studio I	2.0	CSU
ID 130	Applied Color and Design Theory	4.0	CSU
ID 150	Interior Materials and Products	4.0	CSU
ID 170	Space Planning	3.0	CSU
ID 180	History of Interior Architecture & Furnishings I	3.0	CSU
ID 190	History of Interior Architecture & Furnishings II	3.0	CSU
ID 210	Fundamentals of Lighting	3.0	
ID 215	Interior Design Studio II	2.0	CSU
ID 230	Business and Professional Practice	3.0	
ID 240A	Interior Design Internship Seminar	1.0	
ID 240B	Interior Design Internship	1.0	
ID 240C	Interior Design/Kitchen & Bath Internship	2.0	
ID 250	Codes and Specifications for Interior Design	2.0	CSU
ID 265	Interior Design Studio III - Kitchens	2.0	
ID 275	Interior Design Studio IV - Bath Design	2.0	CSU
INSP 70	Elements of Construction	3.0	CSU
INSP 71	Construction Estimating	3.0	CSU
	Total Units	56.0	

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 S0507

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

Kequire	ments for the Major		
Required c	ourses:		
BUSL 20	International Business Law	3.0	
BUSM 20	Principles of Business	3.0	CSU,UC
BUSM 50	World Culture: A Business Perspective or	3.0	CSU
ANTH 22	General Cultural Anthropology	3.0	CSU,UC
BUSM 51	Principles of International Business	3.0	CSU
BUSM 52	Principles of Exporting and Importing	3.0	CSU
BUSM 61	Business Organization and Management	3.0	CSU
BUSM 66	Small Business Management	3.0	CSU
BUSS 36	Principles of Marketing	3.0	CSU
PLUS			
Select one	(1) course from:		
BUSS 70	International Marketing Concept	ts 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
ITAL 1	TI I II I	4.0	CCILIIC

Select one (1) course from:				
BUSS 70	International Marketing Co	oncepts 3.0		
CHIN 1	Beginning Chinese	4.0	CSU,U	
FRCH 1	Elementary French	4.0	CSU,U	
GERM 1	Elementary German	4.0	CSU,U	
ITAL 1	Elementary Italian	4.0	CSU,U	
JAPN 1	Elementary Japanese	4.0	CSU,U	
SPAN 1	Elementary Spanish	4.0	CSU,U	
	Total Units	27.0	- 28.0	

Recommended Electives:

BUSM 81	Work Experience in Business
BUSM 85	Special Issues in Business
BUSS 85	Special Issues in Marketing

Law Enforcement

Public Services Department Major S2102

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

Requirements for the Major Required courses:

ADJU 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:

Jelett Ioui	(4) Courses rivili.		
ADJU 6	Concepts of Enforcement Service	s 3.0	
ADJU 13	Concepts of Traffic Services	3.0	
ADJU 20	Principles of Investigation	3.0	CSU
ADJU 38	Narcotics Investigation	3.0	
ADJU 59	Gangs in the	3.0	CSU
	Community/Corrections		
ADJU 74	Vice Control	3.0	
CORS 30	Ethnic Relations in Corrections	3.0	
CORS 40	Crime and Delinquency	3.0	
CORS 45	The Violent Offender	3.0	
	Total Units	30.0	

Recommended Flortives

necomment	necommenueu 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 Enforcemen			
	Fire Science and Forestry			
SPAN 66	Spanish for Fire and Police Personnel			

Licensed Vocational Nurse to RN Nursing Department Major S1201

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 of 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 of 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 or PSYC 14

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

Requirements for Nursing Required courses:

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:		CSU
	Nutrition/Elimination/Surgical A	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: Integration/Regulation	4.0	CSU
NURS 11	Preceptorship in Nursing	2.0	CSU
	Total Units	28.0	
Requirer	nents for the Major		
ANAT 35	Human Anatomy	5.0	CSU, UC
רכ ואוו	and	5.0	C30,0C
NAT 36		Ε Λ	CSU, UC
INAI 30	Human Physiology	5.0	(30,00
	<u>or</u>		
ANAT 10A	Introductory Human Anatomy	4.0	CSU, UC
	<u>and</u>		
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	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
PSYC 1A	Introduction to Psychology	3.0	CSU, UC
SPCH 1A	Public Speaking	3.0	CSU, UC
	Total Units		- 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 eliqibility 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.
- 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.

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, 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 S0103

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

Requirements for the Major Required courses:

in Agriculture

AGAB 20

i e	iii rigiicultuic		
AGAG 1	Food Production, Land Use and Politics - A Global Perspective		CSU,UC
AGAG 59	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 and Disease Control	3.0	CSU
PLUS			
Select six (6	i) 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
BUSS 36	Principles of Marketing	3.0	CSU
1	Total Units	43.0	- 46.0

Manufacturing Technology Aircraft Maintenance Tech & Manufacturing Dept. Major S0918

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	2.0	CSU
	(Computerized Numerical Contro	I) 0pe	erations
DILLIC			

PLUS

3.0 CSU,UC

Select two (2) course 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		
	Total Units	28.0			

Marketing Management Business Administration Department Major S0510

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.

5.0 CSU.UC

Requirements for the Major Required courses:

Principles of Accounting

BUSA 7

DUSA /	- Financial	5.0	(30,00
	<u>or</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 Concepts	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	3.0	CSU,UC
	- Macroeconomics		
	<u>or</u>		
BUSC 1AH	Principles of Economics - Macroeconomics - Honors	3.0	CSU,UC
BUSC 1B	Principles of Economics	3.0	CSU,UC
	- Microeconomics		,,,,,,,
	<u>or</u>		
BUSC 1BH	Principles of Economics - Microeconomics - Honors	3.0	CSU,UC
BUSC 17	Applied Business Statistics	3.0	CSU,UC
BUSM 60	Human Relations in Business	3.0	CSU
BUSO 5	Business English	3.0	
	,	32.0	

Mental Health Technology - Psychiatric Technician

Psychiatric Technician Department Major S1208

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

3.0

Requirements for the Major Required courses: MENT 40 Introduction to Interviewing

	and Counseling		
	<u>or</u>		
PSYC 40	Introduction to Interviewing and Counseling	3.0	
MENT 56	Medical - Surgical Nursing for Psychiatric Technicians	9.0	
MENT 56L	Clinical Experience	4.0	
MENT 58D	Advanced Medical - Surgical Nursing and Pharmacology for	4.0 PT	
MENT 58L	Advanced Medical - Surgical Nursing for Psychiatric Technici	1.5 ans Clir	nical
MENT 70	Introduction to Psychiatric Technology	1.5	
MENT 70L	Introduction to Psychiatric Technology Clinical Technicians	2.0	
MENT 72	Nursing Care of the Developmentally Disabled Pers	7.0 on	
MENT 72L	Nursing Care of the Developmentally Disabled Pers	5.0 on - Cli	nical
MENT 73L	Psychiatric Nursing for Psychiatric Technicians Clini	5.0 cal	
MENT 73T	Psychiatric Nursing for Psychiatric Technicians	6.0	
MENT 82	Work Experience in Mental Health Technology	2.0	
PSYC 1A	Introduction to Psychology	3.0	CSU,UC
	Total Units	53.0	

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.)
- 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. 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.
- Certain convictions may prevent a candidate from being licensed as a Psychiatric Technician.
- All students may be required to pass 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 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
- *Hearina*: 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

Enalish Lanauaae 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.

Nursina **Nursing Department** Major S1203

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 of Science Degree in Nursing and are eligible to take the NCLEX-RN examination leading to licensure as a Registered Nurse.

Prereauisite 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 (3) semester units with a minimum grade of C.

Non-course requirements:

- 1. An overall grade point average of 2.5 for the Human Anatomy, Human Physiology, and Microbiology prerequisite courses with no grade less than a "C" for each course and no more than one repetition of any one of the courses.
- 2. A cumulative grade point average (GPA) of 2.5 for all college coursework completed.
- 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.
- 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

Regarding Licensure:

The California Board of Registered Nursing (BRN) protects the consumer by screening applicants for licensure in order to identify potentially unsafe practitioners. The BRN may deny applications for interim permits, temporary licenses, and permanent licensure, if the applicant has been found guilty of dishonesty, fraud or deceit, felony child abuse, sex offend crimes, acts involving narcotics,

dangerous drugs or devices, assault and/or battery, and other crimes. Applicants who have questions regarding limitations related to licensure should contact the California Board of Registered Nursing at (916) 322-3350 or access its website at www.rn.ca.gov

Requirements for Nursing Required courses:

nequireu c	Jui ses.		
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		
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 A		
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	
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	4.0	CSU, UC
	<u>and</u>		
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	3.0	CSU, UC
CHLD 10	Child Growth and Development	3.0	CSU, UC
	or		,
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		- 27.0
			_,

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

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

Requirements for the Associate Degree

Students must develop an education plan with a counselor or educational advisor to complete college academic requirements for the AS degree. Contact 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:

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

Course Prereauisites:

- 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.
 - b) English composition must be completed with a grade of "C" or higher:
 - c) A minimum cumulative grade point average of 2.5, in all college coursework completed at the time of certification:
 - d) Students must have eligibility to enroll in MATH 51, Elementary Algebra.
- 3) The eligibility appointment:
 - a) Once a student has completed all course prerequisites, they may request an appointment with a counselor or educational advisor.
 - 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 svllabus:
- 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 & 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

Enalish Lanauaae Skills:

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

Ornamental Horticulture Agricultural Sciences Department Major S0119

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

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

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

Requirements for the Major Reauired courses:

AGAG 1	Food Production, Land Use and Politics - A Global Perspective	3.0	CSU,UC
AGOR 1	Horticultural Science	3.0	CSU
AGOR 2	Plant Propagation/	3.0	CSU
	Greenhouse Management		
AGOR 13	Landscape Design	3.0	CSU
AGOR 24	Integrated Pest Management	3.0	CSU
AGOR 29	Ornamental Plants - Herbaceous	3.0	CSU,UC
AGOR 30	Ornamental Plants - Trees and Woody Shrubs	3.0	CSU,UC
AGOR 32	Landscaping and Nursery Management	3.0	CSU
AGOR 39	Turf Grass Production and Management	3.0	CSU
AGOR 50	Soil Science and Management	3.0	CSU,UC
AGOR 62	Landscape Irrigation - Design and Installation	3.0	CSU
AGOR 71	Landscape Construction Fundamentals	3.0	CSU
AGOR 91	Work Experience in Nursery Operations	1.0 -	- 4.0

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 S1401

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 \$1405

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

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

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

Requirements for the Major Required courses:

BUSL 18	Business Law	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 and Post-Trial	3.0	CSU
PLGL 35A	Law Office Procedures	3.0	CSU
PLGL 35B	Automated Law Office Procedur	es3.0	
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	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 S1402

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:

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 Procedur	es3.0	
PLGL 37	Tort Law	3.0	CSU
PLGL 38	Employment and Ethical Issues	2.0	
	in Paralegalism		
PLGL 39	Contract Law	3.0	CSU
PLGL 48	Criminal Law and Procedures	3.0	CSU
PLGL 49	Evidence Law	3.0	CSU
	Total Units	35.0	

Recommended Electives:

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

Special Information:

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

Paralegal/Legal - Family Law Specialty

Business Administration Department Major S1403

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:

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	

	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

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 S1404

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 Maior 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 Procedur	es3.0	
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 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 S0116

The courses in park and sports turf management are designed to enable students to prepare for a career in this essential and diverse profession. This degree is part of our comprehensive Agricultural Sciences Program. The 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 hard cape), and properly identify and maintain trees, shrubs and turf grasses. In addition, students will learn about personnel management, budgeting and other management topics.

Requirements for the Major Reauired courses:

AGAG 1	Food Production, Land Use and Politics - A Global Perspectiv		CSU,UC
AGOR 4	Park Management	3.0	
AGOR 5	Park Facilities	3.0	
AGOR 13	Landscape Design	3.0	CSU
AGOR 24	Integrated Pest Management	3.0	CSU
AGOR 29	Ornamental Plants - Herbaceous	3.0	CSU,UC
AGOR 30	Ornamental Plants - Trees and Woody Shrubs	3.0	CSU,UC
AGOR 39	Turf Grass Production and Management	3.0	CSU
AGOR 51	Tractor and Landscape Equipment Operations	3.0	CSU
AGOR 62	Landscape Irrigation - Design and Installation	3.0	CSU
AGOR 63	Landscape Irrigation Systems Management	3.0	
AGOR 71	Landscape Construction Fundamentals	3.0	CSU
AGOR 75	Urban Arboriculture	3.0	
AGOR 91	Work Experience in Nursery Operations	1.0 -	- 4.0
CISB 15	Microcomputer Applications	4.0	CSU,UC
	Total Units	44.0	47.0

Pet Science

Agricultural Sciences Department Major S0104

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 Reauired 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
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 Bird	ls 3.0	
	Total Units	34.0	

Photography

Commercial and Entertainment Arts Major S1002

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 Required courses:

AHIS 1

ARTB 1

GRAP 12

PHOT 1

PHOT 2

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

Understanding the Visual Arts

Understanding the Visual Arts

Black and White Photography

Laboratory Studies:

Advanced Photo Editing with Photoshop

Laboratory Studies: Color Photography

Physical Education

Physical Education Department Major S0806

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 Reauired courses:

negunea co	ui ses.			
ANAT 35	Human Anatomy		5.0	CSU,UC
ANAT 36	Human Physiology		5.0	CSU,UC
NF 10	Nutrition for Personal Heand Wellness	alth	3.0	CSU
	<u>or</u>			
NF 25	Essentials of Nutrition		3.0	CSU,UC
	<u>or</u>			
NF 25H	Essentials of Nutrition - H	onors	3.0	CSU,UC
PE 3	First Aid and CPR		3.0	CSU,UC
	<u>or</u>			
PE 5	Advanced First Aid/ CPR/Emergency Respons	e	3.0	CSU
PE 17	Introduction to Physical E	ducation	13.0	CSU,UC
PE 19	Introduction to Care/Prev of Activity/Sports - Relate			CSU,UC
PE 34	Fitness for Living		3.0	CSU,UC
PLUS				
Select eight	(8) courses from:			
DNCE	Dance: Activity	0.5 -	2.0	CSU,UC
PE-A	Physical Education: Aquatics	0.5 -	2.0	CSU,UC
PE-F	Physical Education: Fitnes	s 0.1 -	2.5	CSU,UC
PE-I	Physical Education: Individual	0.5 -	1.0	CSU,UC
PE-L	Physical Education: Adaptive	0.5 -	1.0	CSU,UC
PE-S	Physical Education: Team Sports	0.5 -	1.0	CSU,UC
	Total Units	28.6 - 4	1.5	

Psychiatric Technician to RN Nursing Department Major S1209

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 of 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.
- 2. Human Physiology, including a laboratory component, a minimum of four semester units.
- Microbiology, including a laboratory component, a minimum of four semester units.
- 4. English 1A (Writing Composition) minimum of three semester units with units with a minimum grade of C.
- 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.
- 5. Possess a current California Psychiatric Technician License.
- 6. Criminal background check and drug screening must be passed 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.)

Medical-Surgical Nursing:

3.5 (SII

Requirements for Nursing Required courses:

NURS 3

Locomotion/Sensation/Integument/ Oncology/Immunology			
NURS 4	Maternity Nursing	3.0	CSU
NURS 6	Pediatric Nursing	3.0	CSU
NURS 7	Medical-Surgical Nursing: Nutrition/Elimination/Surgical A	7.0 sepsis	
NURS 8	Medical-Surgical Nursing: Circulation and Oxygenation	5.0	CSU
NURS 9	Leadership in Nursing	1.0	CSU
NURS 10	Medical-Surgical Nursing: Integration/Regulation	4.0	CSU
NURS 11	Preceptorship in Nursing	2.0	CSU
	Total Units	28.5	
Requirer	nents 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 <u>and</u>	4.0	CSU, UC
ANAT 10B	Introductory Human Physiology	4.0	CSU, UC
MICR 1	Principles of Microbiology or	5.0	CSU, UC
MICR 22	Microbiology	4.0	CSU, UC
ENGL 1A	Freshman Composition	4.0	CSU, UC
	or		,
CHLD 10	Child Growth and Development or	3.0	CSU, UC
PSYC 14	<u>or</u> Developmental Psychology	3 U	CSU, UC
PSYC 1A	Introduction to Psychology	3.0	,
SPCH 1A	Public Speaking	3.0	CSU, UC
or CIT IA	, ,		- 27.0
i NΩTF• /Innl	icante plannina to continuo thoi	r odu	ration

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.

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 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.

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. 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 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 S0606

The Radio Broadcasting Behind-the-Scenes Degree is designed for students who are interested in the nonperformance side of the broadcasting industry. Instruction in this major prepares students for entry-level jobs in a variety of areas including production, promotion, copywriting and management. Students also receive instruction in the business side of the industry and can further customize their program by selecting from a variety of optional courses. Students intending to pursue a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of

Requirements for the Major Required courses:

R-TV 01	Introduction to Broadcasting	3.0	CSU
R-TV 09	Broadcast Sales and Promotion	3.0	
R-TV 10	Radio Management and Programming	3.0	
R-TV 11A	Beginning Radio Production	3.0	CSU
R-TV 11B	Advanced Radio Production	3.0	CSU
R-TV 12	Commercial Copywriting	3.0	
R-TV 15	Broadcast Business Practices	3.0	
R-TV 16	Broadcast Career Preparation	3.0	
R-TV 97A	Radio/Entertainment Industry Seminar	1.0	
R-TV 97B	Radio/Entertainment Industry Internship	1.0	
R-TV 97C	KSAK Radio/Internet Radio Internship	1.0	- 2.0

PLUS Soloet nino (0) unite from:

Select IIIIIe	(9) units ironi:
R-TV 03	Sportscasting and Ren

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 Reporting	1.5	
R-TV 08	KSAK Radio Studio Operations	2.0	CSU
R-TV 17	Internet Radio and Podcasting	3.0	
R-TV 26	Legal Issues in Entertainment Law	3.0	
R-TV 27	Radio Drama	3.0	
R-TV 31	History of Radio DJs	3.0	
R-TV 33	Radio Show Producer Techniques and Procedures	3.0	
	Total Units	36.0	- 37.0

Radio Broadcasting: On the Air **Commercial and Entertainment Arts** Major S0605

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 iockey, 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 Reauired courses:

R-TV 01	Introduction to Broadcasting	3.0	CSU
R-TV 02	On-Air Personality Development	3.0	CSU
R-TV 05	Radio-TV Newswriting	3.0	
R-TV 07A	Beginning Commercial Voice-Over	s3.0	
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	1.0	
	Industry Internship		
R-TV 97C	KSAK Radio/Internet Radio 1.0 — Internship	2.0	

PLUS

Select nine (9) units from:

Select lille (2) 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 07B	Advanced Commercial Voice-Overs	3.0		
R-TV 08	KSAK Radio Studio Operations	2.0	CSL	

R-TV 09	Broadcast Sales and Promotion	3.0
R-TV 10	Radio Management	3.0
	and Programming	
R-TV 12	Commercial Copywriting	3.0
R-TV 17	Internet Radio and Podcasting	3.0
R-TV 26	Legal Issues in Entertainment Law	3.0
R-TV 27	Radio Drama	3.0
R-TV 31	History of Radio DJs	3.0
R-TV 33	Radio Show Producer Techniques	3.0
	and Procedures	
	Total Units	36.0 - 37.0
Recommend	ded Electives:	
ANIM 115	Storyboarding	

Radiologic Technology Radiologic Technology Department Major S1206

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 of 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	4.5	CSU
	of Radiologic Technology		

	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	2.0	CSU
		in Radiologic Technology		
		Total Units	77.0	
ı				

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

Admission Requirements:

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

- a) Applicant must be 18 years of age upon entrance into the program.
- b) High school graduate or equivalent.
- c) 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.
- 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 pass 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 Continuing 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.
- d) Maneuver well enough to physically protect himself or herself from injury caused by patients exhibiting aggressive behaviors.
- e) Physically place patients in the proper positions for the examination according to established procedures and standards of speed and accuracy.
- 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.
- 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.
- i) 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 S0512

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

urses:		
Real Estate Principles	3.0	CSU
Legal Aspects of Real Estate	3.0	
Real Estate Practice, or	3.0	
Real Estate Practice Work Experience	3.0	
Real Estate Finance	3.0	
Real Estate Economics	3.0	
Appraisal: Principles and Procedures	3.5	
Microcomputer Applications	4.0	CSU,UC
2), three (3) or four (4) course	s from:	
Income Tax Aspects of Real Estate Investments	3.0	
	Real Estate Principles Legal Aspects of Real Estate Real Estate Practice, or Real Estate Practice Work Experience Real Estate Finance Real Estate Economics Appraisal: Principles and Procedures Microcomputer Applications 2), three (3) or four (4) course Income Tax Aspects	Real Estate Principles 3.0 Legal Aspects of Real Estate 3.0 Real Estate Practice, or 3.0 Real Estate Practice 3.0 Work Experience Real Estate Finance 3.0 Real Estate Economics 3.0 Appraisal: 3.5 Principles and Procedures Microcomputer Applications 4.0 2), three (3) or four (4) courses from: Income Tax Aspects 3.0

Real Estate Property Management 3.0

3.0

3.0

BUSR 60 Real Estate Investment Planning 3.0 BUSR 62 Mortgage Loan Brokering and Lending BUSR 76 Escrow Procedures I PLUS

Group B

BUSR 59

Select zero (0), one (1) or two (2) units 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 Busin	ness3.0	
BUSS 35	Professional Selling	3.0	CSU
BUSS 36	Principles of Marketing	3.0	CSU
PSYC 1A	Introduction to Psychology	3.0	CSU,UC
Total Units		34.5	- 44.5

Real Estate Appraisal Business Administration Department Major S0513

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 Reauired courses:

BUSR 81	Appraisal: Principles	3.5	
	and Procedures		
BUSR 82	Uniform Standards	1.0	
	of Professional Appraisal Pract	ice	
BUSR 83	Residential Appraisal	3.5	
BUSR 84	Residential Appraisal: Case Studies2.5		

PLUS

Coloct coven (7) courses from

Select seve	en (/) courses trom:		
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	3.0	
	of Real Estate Investments		
BUSR 59	Real Estate Property Managem	ent 3.0	
BUSR 76	Escrow Procedures I	3.0	
CISB 15	Microcomputer Applications	4.0	CSU,U
INSP 70	Elements of Construction	3.0	CSU
	Total Units	31.5	32.5

Registered Veterinary Technology **Agricultural Sciences Department** Major S0105

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

These programs are intended to prepare students for employment following graduation. Students desiring a Bachelor's Degree (transfer program) should consult with the department chairperson, counselor or advisor to discuss transferability of courses.

This degree is designed to prepare students for careers as Registered Veterinary Technicians who will work under the supervision of licensed private organizations including veterinary hospitals, research vivariums, animal shelters, and other animal care agencies. Students who satisfactorily complete the requirements of this program are eligible to take the State of California Certifying Examination for Registered Veterinary Technicians.

Students wishing to be admitted to the Registered Veterinary Technology program must meet with the Director of the Registered Veterinary Technology program at least two weeks prior to the beginning of the semester in which enrollment shall begin.

Requirements for the Major Required courses 1st year:

AGAN 1	Animal Science	3.0	CSU,UC
AGAN 2	Animal Nutrition	3.0	CSU,UC
AGAN 51	Animal Handling and Restraint	3.0	CSU
AGAN 94	Animal Breeding	3.0	
AGHE 54	Veterinary Office Procedures	3.0	
AGLI 96	Animal Sanitation and Disease Control	3.0	CSU
	allu Disease Colliloi		

Reauired courses 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 4.0 CSU AGHE 62B Clinical Pathology AGHE 64 3.0 CSU Veterinary Pharmacology Veterinary Radiography 2.0 CSU AGHE 65 3.0 CSU AGHE 79 **Laboratory Animal Medicine** and Care AGHE 84A Applied Animal Health Procedures 1.0 AGHE 84B Applied Animal Health Procedures 1.0 AGHF 85 Seminar in Animal 1.0 Health Technology AGHE 86 Anatomy and Physiology of 40 **Domestic Animals**

PLUS

Select four (4) units of work experience:

AGHE 83A Work Experience in Animal Health 1.0 – 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,
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	58.0	

Respiratory Therapy

Respiratory Technology Department Maior S1205

The Respiratory Therapy Program, which is accredited by the Committee on Accreditation for Respiratory Care (COARC), is designed to train students to function as Respiratory Therapists.

Respiratory Therapy is the application of technical skills involving a complete understanding of cardiopulmonary physiology and recognition of various pathological conditions that alter the patient's ability to breathe effectively.

By applying medical gases under pressure - i.e., compressed air, oxygen, and other mixtures - to the airways through the use of various kinds of equipment, the therapist, under the direction of the physician, treats the diseased or ineffective respiratory system.

Some mechanical aptitude and manual dexterity is helpful in learning the operation of specialized equipment. This includes diagnostic apparatus which aids the physician in detecting cardiorespiratory diseases.

Requirements for the Major Required courses:

RESD 50	Theory and Principles of Respiratory Therapy	2.0	CSU
RESD 51A	Respiratory Therapy Science	4.0	CSU
RESD 51B	Respiratory Therapy Science	4.0	CSU
RESD 52	Pulmonary Anatomy and Physiology	3.0	CSU
RESD 53	Cardiopulmonary Pathophysiology	3.0	CSU
RESD 55	Adult Respiratory Intensive Care	3.0	CSU
RESD 56A	Techniques of Respiratory Therapy	2.5	CSU
RESD 56B	Techniques of Respiratory Therapy	6.0	CSU
RESD 56C	Techniques of Respiratory Therapy	2.5	CSU
RESD 56D	Techniques of Respiratory Therapy	6.0	CSU
RESD 57A	Special Procedures for Respiratory Care	1.5	CSU
RESD 57B	Special Procedures for Respiratory Care	1.5	CSU
RESD 58	Neonatal Intensive Care	3.0	CSU
RESD 59	Respiratory Therapeutic Modalities	3.0	CSU
RESD 60	Comprehensive Pulmonary	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:

- 1) Applicant must be at least 18 years of age upon entrance into the program and must be a high school graduate or equivalent. Please provide copy of diploma as proof of high school completion.
- 2) File a college application and be accepted as a student at Mt. San Antonio College.
- 3) Applicant must take the College placement exams before taking any of the prerequisite or respiratory therapy courses.

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

- *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 issue:
- 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 S0801

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 certificate 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	CSU
SIGN 225	Ethical Decision Making for Interpreters	2.0	

SIGN 227	Cognitive Processing	4.0	
	for Interpreters		
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	2.0	
	in Sign Language/Interpreting		
SIGN 238	Oral Transliteration	3.0	
SIGN 240	Vocabulary Building	2.0	CSU
	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	40.0	43.0

Small Business Management Accounting and Management Department Major S0508

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

Requirements for the Major Required courses:

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

Recommended Electives:

BUSM 81	Work Experience in Business
BUSM 85	Special Issues in Business
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 S0602

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 14	Media Aesthetics	3.0		
R-TV 15	Broadcast Business Practices	3.0		
R-TV 19A	Beginning Television Production	3.0	CSU	
R-TV 19B	Advanced Television Production	3.0	CSU	

R-TV 100A Work Experience in Film and TV 2.0

PLUS

Select twelve (12) units from:

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

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 S0919

This program is designed to prepare the student for employment in the broad field of welding. It leads to occupations in manufacturing and repair and helps prepare the student for positions in supervision.

Courses in the welding curriculum prepare students for welding certification. The college is a testing agency for the City of Los Angeles and is authorized to administer the performance test for the Structural Welding Certificate. There is a \$50 charge for students and \$60 for non- students to take this test. Topics of the written portion of the test which is administered by the city are reviewed in various welding courses offered by the college.

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

Requirements for the Major Required courses:

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

Recommended Electives:

BUSM 61	Business Organization and Management
EDT 11	Technical Engineering Drawing I
MFG 70	Technical Mathematics
	- Manufacturing Applications
WELD 30	Metal Sculpture

ASSOCIATE OF 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 64 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 Degree A8981

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

BUSC 1A Principles of Economics 3.0 - Macroeconomics <u>or</u>

BUSC 1AH	Principles of Economics - Macroeconomics - Honors	3.0	
BUSC 1B	Principles of Economics - Microeconomics	3.0	
	<u>or</u>		
BUSC 1BH	Principles of Economics - Microeconomics - Honors	3.0	
CISB 15	Microcomputer Applications or	4.0	
COMP 12	Office Computer Applications or	4.0	
CISB 11	Computer Information Systems	3.5	
Plus select	a minimum of three courses froi	n the	
following which should be selected in consultation			
with a counselor or educational advisor.			
BUSO 25	Business Communications	3.0	
BUSM 20	Principles of Business	3.0	

	for Area of Emphasis	
	Total Units	18.5 - 23.0
SPCH 7	Intercultural Communication	3.0
Elective Co	ourse:	
BUSC 17	Applied Business Statistics	3.0
BUSL 18	Business Law	3.0
BUSA 8	Principles of Accounting - Managerial	5.0
BUSA 7	Principles of Accounting - Financial	5.0

Associate of Arts Degree in Liberal Arts and Sciences

Emphasis in Communication Degree A8982

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.

Core/Required Courses (12 units)

SPCH 1A	Public Speaking	3.0	
	<u>or</u>		
SPCH 1AH	Public Speaking - Honors	3.0	
SPCH 26	Interpersonal Communication	3.0	
	<u>or</u>		
SPCH 26H	Interpersonal Communication	3.0	
	- Honors		
JOUR 100	Mass Media and Society	3.0	
SPCH 1B	Intermediate Public Speaking	3.0	
	<u>or</u>		
SPCH 20	Argumentation and Debate	3.0	
	<u>or</u>		
SPCH 20H	Argumentation and Debate	3.0	
	- Honors		
PLUS			
Change and (1) of the following tracks.			

Choose one (1) of the following tracks: Performance Studies Track

(6 additional units selected from the following):

		-
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	3.0
	(if not used as a core class)	

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

(6 additional units selected from the following):

(o addicion	ar annes sereceea mont ene tono.	9/.
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	3.0
	<u>or</u>	
PHIL 15H	Major World Religions - Honors	3.0
JOUR 107	Race, Culture, Sex and Mass Media Images	3.0
LIT 3	Multicultural American Literatu	re 3.0
ANTH 5	Principles of Cultural Anthropology	3.0
	or	
ANTH 22	General Cultural Anthropology	3.0
	Total Units	18.0

Associate of Arts Degree in Liberal Arts and Sciences

for Area of Emphasis

Emphasis in Fine Arts Degree A8983

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.

Core/Required Courses (24 units)

ARTD 15A	Drawing: Beginning	3.0
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:	3.0
	Prehistoric Through Gothic	

								FIU	granis Le	eauling to all Associat	es Degree
	<u>or</u>		MUS 11B	Music Literature Survey	3.0	LIT 10	Survey of Shakespeare	3.0		<u>or</u>	
AHIS 4H	History of Western Art:	3.0	MUS 12	History of Jazz	3.0	LIT 11A	World Literature	3.0	JAPN 2	Continuing Elementary Japanes	se 4.0
	Prehistoric Through Gothic - Hor	nors	MUS 13	Introduction to Music	3.0	LIT 11B	World Literature	3.0		<u>and</u>	
AHIS 5	History of Western Art:	3.0		Appreciation		LIT 15	Introduction to Cinema	3.0	JAPN 3	Intermediate Japanese	4.0
	Renaissance Through Modern		MUS 14A	World Music	3.0	SPCH 4	Oral Interpretation of Literature	3.0		<u>or</u>	
	<u>or</u>		MUS 14B	American Folk Music	3.0	THTR 10	History of Theater Arts	3.0	SPAN 11	Spanish for the Spanish Speaki	ng 4.0
AHIS 5H	History of Western Art:	3.0	MUS 15	Rock Music History	3.0	Reliaion a	nd Literatures:			<u>and</u>	
	Renaissance Through Modern -			and Appreciation		PHIL 15	Major World Religions	3.0	SPAN 12	Continuing Spanish	4.0
	Total Units	24.0	Art History	:		1111213	<u>or</u>	5.0		for the Spanish Speaking	
	for Area of Emphasis		AHIS 3	History of Women	3.0	PHIL 15H	Major World Religions - Honors	3.0		<u>or</u>	
	ded two studio electives			and Gender in Art		LIT 36	Introduction to Mythology	3.0	SPAN 2	Continuing Elementary Spanish	1 4.0
-	lected from the following):			<u>or</u>		LIT 46	The Bible as Literature:	3.0		<u>and</u>	
ANIM 101	Drawing - Gesture and Figure	3.0	AHIS 3H	History of Women	3.0		Old Testament		SPAN 3	Intermediate Spanish	4.0
ARTB 14	Basic Studio Arts	3.0	ALUC A	and Gender in Art - Honors	2.0	LIT 47	The Bible as Literature:	3.0		Total Units	18.0 - 28.0
ARTC 165	Illustration	3.0	AHIS 4	History of Western Art: Prehistoric Through Gothic	3.0		New Testament			for Area of Emphasis	
ARTC 70	Computer Graphics: Introduction			or		History:			Recommen	nded electives:	
ARTD 16	Drawing: Perspective	3.0	AHIS 4H	History of Western Art:	3.0	HIST 3	History of World Civilization	3.0	HUMA 1	The Humanities	3.0
ARTD 15B	Drawing: Beginning	3.0	וודכוווא	Prehistoric Through Gothic - Hor			<u>or</u>		STDY 100	Student Achievement	3.0
ARTD 17B	Drawing: Life	3.0	AHIS 5	History of Western Art:	3.0	HIST 3H	History of World Civilization	3.0		and Fundamentals of Learning	
ARTD 27	Painting: Watercolor	3.0		Renaissance Through Modern			- Honors				
ARTD 43	Printmaking: Silk-screen and Intaglio	3.0		<u>or</u>		HIST 4	History of World Civilization	3.0		ate of Arts Degree	
ARTD 44	Printmaking: Relief	3.0	AHIS 5H	History of Western Art:	3.0		<u>or</u>		in Libe	ral Arts and Sciences	5
ANID 44	and Lithography	5.0		Renaissance Through Modern - I	Honors	HIST 4H	History of World Civilization	3.0		s in Information Technolog	ЭУ
ARTG 20	Art, Artists and Society	3.0	AHIS 6	History of Modern Art	3.0		- Honors		Degree A	\8985	
ARTG 21A	Introduction to Exhibition	3.0		<u>or</u>		HIST 10	History of Asia	3.0		sis in Information Technology pro	
7	Production	5.0	AHIS 6H	History of Modern Art - Honors		HIST 11	History of Asia	3.0		th an understanding of software	
ARTS 30A	Ceramics: Beginning	3.0	AHIS 9	History of Asian Art	3.0	HIST 16	The Wild West	3.0		echnologies, operating systems, i	networks, and
ARTS 33	Ceramics: Hand Construction	3.0	AHIS 10	A History of Greek and	3.0	HIST 19	- A History, 1800-1890 History of Mexico	3.0	network se	•	
ARTS 40A	Sculpture: Beginning	3.0	11110 44	Roman Art and Architecture	2.0	HIST 35	History of Africa	3.0		n Technology Basics	
ARTS 41A	Sculpture: Life	3.0	AHIS 11	History of African, Oceanic and Native American Art	3.0	HIST 44	History of Native Americans	3.0		its from the following):	
PHOT 10	Basic Digital	3.0	AHIS 12	History of Precolumbian Art	3.0		•	3.0	CISB 11	Computer Information Systems	
	and Film Photography		ANIS 12	·	3.0	Foreign La			CISB 15	Microcomputer Applications	4.0
			AHIS 12H	<u>or</u> History of Precolumbian Art	3.0	CHIN 2	Continuing Elementary Chinese	4.0	COMP 12	Office Computer Applications	4.0
	ate of Arts Degree		AIIIJ IZII	- Honors	5.0	CHINI 2	<u>and</u>	4.0	Software D	Development	
in Libe	ral Arts and Sciences		Dhiloconhu	and Political Science:		CHIN 3	Intermediate Chinese	4.0	(4 units sel	lected from the following):	
Emphasis	s in Humanities		PHIL 12	Ethics	3.0	FDCII 2	<u>Or</u>	4.0	CISP 11	Programming in Visual Basic	4.0
Degree A	18984		FIIIL IZ		3.0	FRCH 2	Continuing Elementary French	4.0	CISP 21	Programming in Java	4.0
An emphas	is in Humanities provides the stu	udent with an	PHIL 12H	<u>or</u> Ethics - Honors	3.0	FDCII 3	and	4.0	CISP 31	Programming in C++	4.0
	ling of the interrelationship betw		PHIL 20A	History of Western Philosophy	3.0	FRCH 3	Intermediate French	4.0	CISP 41	Programming in C#	4.0
	story, music, literature and the dr		PHIL 20B	History of Western Philosophy	3.0	CEDM 2	Or Continuing Flamentary Corman	4.0	CISW 21	Secure Client Side	4.0 CSU
	ophical and political thought. Th		POLI 5	Political Science Theory	3.0	GERM 2	Continuing Elementary German	4.0		Web Programming	
	thens the understanding of othe	r cultures	POLI 9	Introduction to International	3.0	GERM 3	<u>and</u> Intermediate German	4.0	CISW 24	Secure Server Side	4.0
_	e study of a foreign language.		I OLI)	Relations	5.0	GENINI 2		4.0		Web Programming	
Select a total of 18 units choosing courses from at least			d Dramatic Arts Literatures:		ITAL 2	<u>or</u> Continuing Elementary Italian	4.0	Database 1	•		
	llowing 7 categories:		FRCH 60	French Culture Through Cinema	3 0	IIAL Z	and	4.0	(4 units sel	lected from the following):	
Music:		2.0	ITAL 60	Italian Culture Through Cinema		ITAL 3	<u>unu</u> Intermediate Italian	4.0	CISD 11	Database Management	4.0
MUS 11A	Music Literature Survey	3.0	TIAL OU	manan Culture mnough Chlema	3.0	IIVE	intermediate italian	7.∪		- Microcomputers	

Progran	ns Leading to an Asso	ociates De	gree		
CISD 21	SOL Server	4.0		or	
CISD 31	Database Management	4.0	PE 5	Advanced First Aid/CPR/	3.0
Oneratina	Systems and Networking			Emergency Response	
	ected from the following):		PE 13	Sports Officiating	3.0
CISN 11	Telecommunications/Networkin	n 4 0	PE 17	Introduction to Physical Educatio	n3.0
CISN 21	Windows Operating System	4.0	PE 19	Introduction to Care/	3.0
CISN 31	Linux Operating System	4.0		Prevention of Activity/Sports-Rel	•
	. , ,	***	PE 34	Fitness for Living	3.0
	units selected from the following	-	PE 39	Techniques of Fitness Testing	2.0
CISS 13	Principles of Information Systems Security	4.0	PE 44	Theory of Coaching	3.0
	Total Units	19.5 – 20.0	DN-T 18	Introduction to Dance	3.0
	for Area of Emphasis	17.3 – 20.0	DN-T 20	History and Appreciation of Danc	e3.0
0	•		Cluster 2: S	cientific and Nutrition Backgrou	nd
	ded Electives:	2.5	(minimum	of 3 units selected from the follo	wing):
CISM 11	Systems Analysis and Design	3.5	ANAT 10A	Introductory Human Anatomy	4.0
COMP 20	Word for the Business Professional	4.0		<u>or</u>	
COMP 50	Desktop Presentations	4.0	ANAT 35	Human Anatomy	5.0
COMP 30	using PowerPoint	4.0	ANAT 10B	Introductory Human Physiology	4.0
BUSA 7	Principles of Accounting	5.0	ANAT 36	<u>or</u> Human Physiology	5.0
DUCM 20	- Financial	2.0	CHEM 10	Chemistry for Allied	4.0
BUSM 20	Principles of Business Human Relations in Business	3.0	CHEMIO	Health Majors	1.0
BUSM 60		3.0		or	
BUSO 25	Business Communications	3.0	CHEM 40	 Introduction	4.0
BUSS 36	Principles of Marketing	3.0		to General Chemistry	
SL 2	Service Learning in Networking	1.0	MICR 1	Principles of Microbiology	5.0
SPCH 26	Interpersonal Communication	3.0		<u>or</u>	
CDCII 2CII	Or	2.0	MICR 22	Microbiology	4.0
SPCH 26H	Interpersonal Communication - Honors	3.0	PHYS 1	Physics	4.0
STDY 100	Student Achievement	3.0		<u>or</u>	
סטו ועוכ	and Fundamentals of Learning	5.0	PHYS 2AG	General Physics	4.0
			PSYC 1B	Biological Psychology	3.0
Associa	ate of Arts Degree		BIOL 1	General Biology	4.0
	ral Arts and Sciences		BIOL 5	Contemporary Health Issues	3.0
	in Kinesiology and Wellne			<u>or</u>	
Degree A	8986		BIOL 13	Human Reproduction, Development and Aging	3.0
	is in Kinesiology and Wellness pr		NF 10	Nutrition for Personal Health	3.0
student wit	th an understanding of physical of	education,		and Wellness	
	notion, and the mechanics of hu			<u>or</u>	
movement. In addition to the foundational physical education and movement courses, students select courses			NF 25	Essentials of Nutrition	3.0
	ind movement courses, students ntific and nutrition and a behavi		Cluster 3: E	Behavioral Development and Dive	ersity
	nt and diversity cluster.	viai		of 3 units selected from the follo	
	Physical Education and Movemen	••	PSYC 1A	Introduction to Psychology	3.0
	rnysical Education and Movemel of 6 units selected from the foll		PSYC 26	Psychology of Sexuality	3.0
•		3,	PSYC 3	Introduction to Research	4.0
PE 3	First Aid and CPR	3.0		Methods in Psychology	
				, 3,	

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			
I	ional units taken from any cours for a total of at least 18 units.	es in Clusters			
	Total Units	18.0			
	for Area of Emphasis				
Students v emphasis take a mir different F	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 Degree A8987 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. Language Acquisition					
Language	Acquisition				

(minimum 9 units selected from the following):

4.0

3.0

3.0

3.0

Early Literacy in Child Development Critical Thinking and Writing

Critical Thinking

READ 100 Analysis and Critical Reading

and Logical Writing

Language Acquisition

READ 110 Reading Tutoring for Elementary 3.0 Students Through Service Learning

<u>or</u>

CHLD 51

ENGL 1C

PHIL 9

ENGL 81

SIGN 210	American Sign Language Structure	3.0
STDY 100	Student Achievement and Fundamentals of Learning	3.0
Lanauaae A	rts and Diversity	
	6 units selected from the following	na):
SPAN 1	Elementary Spanish	4.0
SPAN 2	Continuing Elementary Spanish	4.0
SPAN 3	Intermediate Spanish	4.0
SPAN 4	Continuing Intermediate Spanish	
SPAN 5	Advanced Spanish	4.0
SPAN 6	Continuing Advanced Spanish	4.0
SPAN 11	Spanish for the Spanish	4.0
317.11	Speaking	
SPAN 12	Continuing Spanish	4.0
	for the Spanish Speaking	
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	
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	
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	
JAPN 1	Elementary Japanese	4.0
JAPN 2	Continuing Elementary Japanese	
JAPN 3	Intermediate Japanese	4.0

	Total Units for Area of Emphasis	18.0
	for Young Children	
CHLD 61	Language Arts and Art Media	3.0
SPCH 4	Oral Interpretation of Literature	3.0
LIT 40	Children's Literature	3.0
LIT 6B	<u>or</u> Survey of English Literature	3.0
LIT 6A	Survey of English Literature	3.0
LIT 2	Modern American Literature	3.0
	<u>or</u>	
LIT 1	Early American Literature	3.0
JOUR 108	Writing for Public Relations	3.0
JOUR 102	Intermediate News Writing	3.0
	<u>or</u>	
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
ENGL 1BH	<u>or</u> English - Introduction to Literary Types - Honors	3.0
	to Literary Types	
ENGL 1B	English - Introduction	3.0
(minimum	3 units selected from the followi	ng):
Personal O _l	otions	
	Anti-Bias Perspective	
CHLD 50	Multicultural Education:	3.0
LIT 33	Images of Women in Literature	3.0
	American Literature	
LIT 25	Contemporary Mexican	3.0
LIT 20	African American Literature	3.0
LIT 11B	World Litera2ture	3.0
	<u>or</u>	
LIT 11A	World Literature	3.0
LIT 3	Multicultural American Literature	3.0
SIGN 105	American Sign Language 5	4.0
SIGN 104	American Sign Language 4	4.0
SIGN 103	American Sign Language 3	4.0
SIGN 102	American Sign Language 2	4.0
SIGN 101	American Sign Language 1	4.0
ARAB 2	Continuing Elementary Arabic	4.0
ARAB 1	Elementary Arabic	4.0
LATN 2	Continuing Elementary Latin	4.0
LATN 1	Elementary Latin	4.0

Associate of Arts Degree in Liberal Arts and Sciences

Emphasis in Mathematics Degree A8989

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

MATH 130 College Algebra

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

3.0

_		
	Total Units for Area of Emphasis	18 Units
CSCI 145	Java Language and Object Oriented Programmi	4.0 ng
CSCI 140	C++ Language and Object Development	4.0
CSCI 110	Fundamentals of Computer Science	3.5
MATH 285	Linear Algebra and Differential Equations	5.0
MATH 280	Calculus and Analytic Geometry	4.0
MATH 181	Calculus and Analytic Geometry	5.0
MATH 180	Calculus and Analytic Geometry	4.0
MATH 160	Precalculus Mathematics	4.0
MATH 150	Trigonometry	3.0
MATH 140	Calculus for Business	4.0
MINITI 130	College Algebia	5.0

Recommended Electives:

MATH 100	Survey of College Mathematics	3.0	
MATH 110	Elementary Statistics	3.0	
	<u>or</u>		
MATH 110H	Elementary Statistics - Honors	3.0	
MATH 245	A Transition	3.0	
	to Advanced Mathematics		
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 Degree A8990

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)

rea Courses (13 units)	
Music Theory	3.0
Harmony	3.0
Musicianship	1.0
- Ear Training and Sight Singing	
Musicianship	1.0
•	3.0
	3.0
,	1.0
-):
Elementary Class Piano	1.0
	1.0
Advanced Class Piano	1.0
ce Ensemble	
selected from the following):	
Chamber Winds	2.0
Collegiate Chorale	1.0
Concert Choir	2.0
Masterworks Chorale	1.0
Women's Vocal Ensemble	2.0
Concert and Community Band	2.0
Ensemble	1.0
Laboratory Band	2.0
Pep Band	1.0
Vocal Jazz Ensemble	3.0
	3.0
Mt. SAC Singers	2.0
Jazz Band	3.0
Men's Vocal Ensemble	2.0
Wind Ensemble	3.0
Total Units	18.0 - 20.0
•	
Music Literature Survey	3.0
•	
Individual Instruction	3.0
•	3.0
	Harmony Musicianship - Ear Training and Sight Singing Musicianship - Ear Training and Sight Singing Musicianship - Ear Training and Sight Singing Music Literature Survey Individual Instruction Conducting Elementary Class Piano Intermediate Class Piano Advanced Class Piano Advanced Class Piano Coe Ensemble Selected from the following): Chamber Winds Collegiate Chorale Concert Choir Masterworks Chorale Women's Vocal Ensemble Concert and Community Band Ensemble Laboratory Band Pep Band Vocal Jazz Ensemble Chamber Singers Jazz Band Men's Vocal Ensemble Wind Ensemble Total Units for Area of Emphasis Ecommended Electives:

Associate of Arts Degree in Liberal Arts and Sciences

Emphasis in Natural Sciences Degree A8988

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 10 and 5 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	5.0		
	and Diversity			
MICR 1	Principles of Microbiology	5.0		
	<u>or</u>			
MICR 22	Microbiology	4.0		
CHEM 50	General Chemistry	5.0		
	<u>or</u>			
CHEM 50H	General Chemistry - Honors	5.0		
CHEM 51	General Chemistry II	5.0		
CHEM 80	Organic Chemistry	5.0		
CHEM 81	Organic Chemistry	5.0		
CHEM 60	Quantitative Chemical Analysis	5.0		
GEOL 1	Physical Geology	4.0		
GEOL 2	Historical Geology	4.0		
PHYS 2AG	General Physics	4.0		
PHYS 2BG	General Physics	4.0		
PHYS 4A	Engineering Physics	5.0		
PHYS 4B	Engineering Physics	5.0		
PHYS 4C	Engineering Physics	5.0		
ENGR 40	Statics	3.0		
ENGR 41	Dynamics	3.0		
	Total Units	18.0		
	for Area of Emphasis			

Associate of Arts Degree in Liberal Arts and Sciences

Emphasis in Social & Behavioral Sciences Degree A8991

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 Behavioral Sciences	

Cluster 2: Cultural & Gender Diversity

(minimum of 3 units selected from the following):				
The Native American	3.0			
Principles of Cultural	3.0			
Anthropology				
<u>or</u>				
General Cultural Anthropology	3.0			
Mass Media and Society	3.0			
Race, Culture, Sex	3.0			
•				
Politics of the Mexican American	3.0			
African American Politics	3.0			
Intercultural Communication	3.0			
Women in American History	3.0			
- Beyond the Stereotypes				
Human Sexuality	3.0			
<u>or</u>				
Human Sexuality - Honors	3.0			
Images of Women in Literature	3.0			
The Psychology of Women	3.0			
Psychology of Sexuality	3.0			
Introduction to Criminology	3.0			
Marriage and the Family	3.0			
Sociology of Ethnic Relations	3.0			
<u>or</u>				
Sociology of Ethnic Relations	3.0			
- Honors				
	The Native American Principles of Cultural Anthropology or General Cultural Anthropology Mass Media and Society Race, Culture, Sex and Mass Media Images Politics of the Mexican American African American Politics Intercultural Communication Women in American History - Beyond the Stereotypes Human Sexuality or Human Sexuality - Honors Images of Women in Literature The Psychology of Women Psychology of Sexuality Introduction to Criminology Marriage and the Family Sociology of Ethnic Relations or Sociology of Ethnic Relations			

Cluster 3: Development of the Person (minimum of 3 units selected from the following): BIO 5 **Contemporary Health Issues** 3.0

3.0

3.0

3.0

3.0

Human Reproduction,

BIO 13

SOC 2H

SOC 4

SOC 15

	Development and Aging	
CHLD 1	Child, Family and Community	3.0
CHLD 10	Child Growth and Development	3.0
CHLD 10H	<u>or</u> Child Growth and Development - Honors	3.0
PSYCH 14	Developmental Psychology	3.0
SOC 2	Sociology	3.0
	<u>or</u>	

Sociology - Honors

Child Development

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

Introduction to Gerontology

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	intended electives include.	
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 or	3.0
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>

Service Learning and Community 1.0

SL 4

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 Center in advance of the next registration period.

Students should develop an educational plan by the end of their second semester. Students with declared majors are encouraged to consult with an educational advisor or a counselor in the Counseling Center. Students who are undecided are encouraged to see a counselor or enroll in COUN 5 — Career/Life Planning.

Listed below are majors that may be offered at various campuses of the California State University (CSU) and/or the University of California (UC). Although a serious attempt was made to make this list a comprehensive one, it is not an exact list of every major available. To find out exactly what major is available at any particular university, please visit the Counseling Center. 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.

UNIVERSITY TRANSFER MAJOR OPTIONS

Liberal Arts Social Sciences Social Ecology Sociology Art Anthropology **Urban Studies** Art History Behavioral Sciences Women's Studies Child Development Classics **Comparative Cultures** Cultural Geography **Natural Sciences & Math** Creative Studies **Economics** LIFE SCIENCES Drama/Theater Arts Ethnic and Area Studies **Biological Sciences English and Literature** Asian Studies Animal Physiology Foreign Languages and Chicana/Chicano Studies Biochemistry Literatures Comparative Cultures **Biomedical Sciences** Humanities **European Studies Botany** Liberal Studies Latin American Studies Ecology Linauistics Middle Eastern Studies **Environmental Biology** Medieval Studies Native American Studies Genetics Third World Studies Museum Studies Integrative Biology Music History Marine Biology **Human Development** Musicology Microbiology Philosophy Law and Society Molecular Biology Religious Studies Legal Studies Zoology Renaissance Studies Peace and Conflict Studies **Health Sciences** Political Science Rhetoric

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 Journalism 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

Nursing Nutrition

Occupational Therapy Physical Education Public Health Radiologic Technology Recreation Administration Rehabilitation

Medical Lab Technology

Psychology

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 eligible 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.

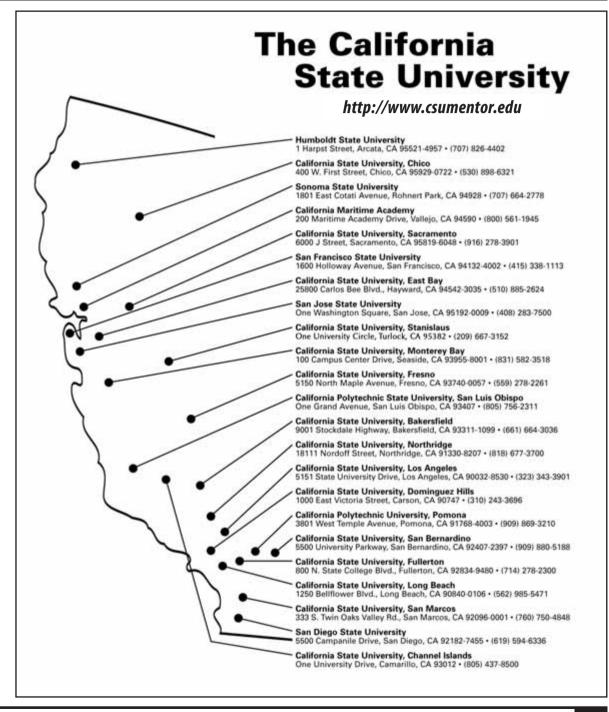
Students who completed college units before they graduated from high school or during the summer between high school graduation and CSU enrollment are considered first-time freshmen and must meet those admission requirements.

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 guarter 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 2009-2010 California State University (CSU) undergraduate application.



CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION REQUIREMENTS 2009-10

The requirements listed below are for the 2009-2010 academic year and are based upon information available at the time of catalog publication.

Students may contact the Counseling Center for most current information at (909) 594-5611, ext. 4293.

Forty-eight units of general education are required to graduate from campuses of the CSU system. A maximum of 39 units may be certified by community colleges; nine units must be taken at the upper division level. Acceptable courses are grouped in five areas, A through E. A maximum of 30 units may be certified from Areas B through D collectively. The list of certifiable courses will be subject to change year by year, but students are assured that courses taken to meet General Education-Breadth Requirements will be honored if they are on the list during the year taken.

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 2009 must follow 2009-2010 CSU GE—Breadth requirements. Courses are approved for the academic year in which they were completed. Students may obtain a copy from the Counseling Center. For the most recent version of the CSU GE, come to the Counseling Center located in Student Services, upper level.

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 A-3: Critical Thinking: ENGL 1C Critical Thinking and Writing ENGL 1CH Critical Thinking and Writing PHIL 3 Logic in Practice	+CHEM 51 General Chemistry II GEOG 1 Elements of Physical Geography +GEOG 1H Elements of Physical Geography – Honors +GEOG 1L Physical Geography Laboratory – Honors +GEOL 1 Physical Geography Laboratory – Honors +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	+BIOL 6L Humans and the Environment Laboratory BIOL 17 Neurobiology and Behavior BIOL 20 Marine Biology +BIOL 21 Marine Biology Laboratory BIOL 34 Fundamentals of Genetics +MICR 1 Principles of Microbiology +MICR 22 Microbiology PSYC 1B Biological Psychology B-3: Lab Science This requirement is met by taking ONE of the courses above indicated by a "+" sign. Lab must be	ARTB 1 Understanding the Visual Arts AHIS 1H Understanding the Visual Arts — Honors AHIS 2 Topics in Visual Art and Culture AHIS 2H Topics in Visual Art and Culture — Honors AHIS 3 History of Women and Gender in Art 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
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:	+METO 3L Weather and Atmospheric Environment Laboratory OCEA 10 Introduction to Oceanography OCEA 10H Introduction to Oceanography – Honors +OCEA 10L Introduction to Oceanography Laboratory +PHSC 3 Energy Science 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 Science Select at least one course from the following list:	a corresponding section to the lecture course taken. B-4: Mathematics Select at least one course from the following list: BUSC 17 Applied Business Statistics MATH 100 Survey of College Mathematics MATH 110 Elementary Statistics MATH 110H Elementary Statistics — Honors MATH 120 Finite Mathematics MATH 130 College Algebra MATH 140 Calculus for Business MATH 150 Trigonometry MATH 160 Precalculus Mathematics MATH 180 Calculus and Analytic Geometry MATH 181 Calculus and Analytic Geometry	Through Modern — Honors AHIS 6 History of Modern Art 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 ARCH 31 World Architecture I ARCH 32 World Architecture II ARTB 14 Basic Studio Arts ARTD 15A Drawing: Beginning
ASTR 5 Introduction to Astronomy ASTR 5H Introduction to Astronomy — Honors +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	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 — Honors +ANTH 1L Biological Anthropology Laboratory +BIOL 1 General Biology +BIOL 2 Plant and Animal Biology +BIOL 3 Ecology and Field Biology	MATH 280 Calculus and Analytic Geometry MATH 285 Linear Algebra and Differential Equations PSYC 10 Statistics for the Behavioral Sciences Area C Arts, Literature, Philosophy and Foreign Languages (9 units) Select three courses, with at least one course from "Arts" and one course from "Humanities": C-1: Arts AHIS 1 Understanding the Visual Arts, or	ARTD 20 Design: Two Dimensional ARTD 25A Painting: Beginning ARTG 20 Art, Artists and Society ARTS 22 Design: Three Dimensional ARTS 30A Ceramics: Beginning ARTS 40A Sculpture: Beginning DN-T 20 History and Appreciation of Dance ID 180 History of Interior Architecture and Furnishings I MUS 7 Fundamentals of Music MUS 11A Music Literature Survey

		CALI	FORNIA STATE UNIVERSITY GENER	RAL EDUCAT	ION REQUIREMENTS 2009-10		
MUS 11B	Music Literature Survey	* HIST 40	History of the Mexican American	SPAN 5	Advanced Spanish	BUSC 1B	Principles of Economics – Microeconomics
MUS 12	History of Jazz	HUMA 1	The Humanities	SPAN 6	Continuing Advanced Spanish	BUSC 1BH	Principles of Economics —
MUS 13	Introduction to Music Appreciation	ITAL 1	Elementary Italian	SPAN 11	Spanish for the Spanish Speaking		Microeconomics — Honors
MUS 13H	Introduction to Music Appreciation — Honors	ITAL 2	Continuing Elementary Italian	SPAN 12	Continuing Spanish for the Spanish	JOUR 100	Mass Media and Society
MUS 14A	World Music	ITAL 3	Intermediate Italian		Speaking	D-3: Ethnic S	Studies
MUS 14B	American Folk Music	ITAL 4	Continuing Intermediate Italian	SPAN 25	Spanish Literature	* HIST 30	History of the African American
MUS 15	Rock Music History and Appreciation	ITAL 5	Advanced Italian			* HIST 31	History of the African American
PHOT 15	History of Photography	ITAL 6	Continuing Advanced Italian	Area D		* HIST 40	History of the Mexican American
SPCH 4	Oral Interpretation of Literature	ITAL 60	Italian Culture Through Cinema		cal, and Economic Institutions and	* HIST 44	,
THTR 9	Introduction to Theatre Arts	JAPN 1	Elementary Japanese		storical Background	JOUR 107	History of Native Americans
THTR 10	History of Theatre Arts	JAPN 2	Continuing Elementary Japanese		rses: Minimum 9 units with courses from	POLI 25	Race, Culture, Sex, and Mass Media Images Politics of the Mexican American
THTR 11	Principles of Acting I	JAPN 3	Intermediate Japanese		disciplines (D0 – D9):		
C-2: Humani		JAPN 4	Continuing Intermediate Japanese	D-0: Sociolo	gy & Criminology	POLI 35	African American Politics
1		JAPN 5	Advanced Japanese	CHLD 1	Child, Family, School and Community	SOC 20	Sociology of Ethnic Relations
ARAB 1	Elementary Arabic	LATN 1	Elementary Latin	SOC 1	Sociology	SOC 20H	Sociology of Ethnic Relations — Honors
ARAB 2	Continuing Elementary Arabic	LATN 2	Continuing Elementary Latin	SOC 1H	Sociology — Honors	D-4: Gender	Studies
CHIN 1	Elementary Chinese	LIT 1	Early American Literature	SOC 2	Sociology	* HIST 36	Women in American History —
CHIN 2	Continuing Elementary Chinese	LIT 2	Modern American Literature	SOC 2H	Sociology — Honors		Beyond the Stereotypes
CHIN 3	Intermediate Chinese	LIT 3	Multicultural American Literature	SOC 4	Introduction to Gerontology	* PSYC 25	The Psychology of Women
CHIN 4	Continuing Intermediate Chinese	LIT 6A	Survey of English Literature	SOC 5	Introduction to Criminology	D-5: Geogra	nhv
ENGL 1B	English — Intro to Literary Types	LIT 6B	Survey of English Literature	SOC 5H	Introduction to Criminology – Honors	GEOG 2	Human Geography
ENGL 1BH	English — Intro to Literary Types — Honors	LIT 11A	World Literature	SOC 14	Marriage and the Family	GEOG 2H	Human Geography — Honors
FRCH 1	Elementary French	LIT 11B	World Literature	SOC 15	Child Development	GEOG 5	
FRCH 2	Continuing Elementary French	LIT 14	Introduction to Modern Poetry	SOC 20	Sociology of Ethnic Relations		World Regional Geography
FRCH 3	Intermediate French	LIT 15	Introduction to Cinema	SOC 20H	Sociology of Ethnic Relations — Honors	GEOG 8 GEOG 30	The Urban World
FRCH 4	Continuing Intermediate French	LIT 20	African American Literature		pology & Archeology		Geography of California
FRCH 5	Advanced French	LIT 25	Contemporary Mexican American Lit		., .,	D-6: History	
FRCH 6	Continuing Advanced French	LIT 33	Images of Women in Literature	ANTH 3	Archeology	* HIST 1	History of the United States
FRCH 60	French Culture Through Cinema	LIT 35	Science Fiction and Fantasy Survey	ANTH 5	Principles of Cultural Anthropology	* HIST 3	History of World Civilization
GERM 1	Elementary German	LIT 36	Introduction to Mythology	ANTH 22	General Cultural Anthropology	* HIST 3H	History of World Civilization — Honors
GERM 2	Continuing Elementary German	LIT 40	Children's Literature	ANTH 30	The Native American	* HIST 4	History of World Civilization
GERM 3	Intermediate German	LIT 46	The Bible as Literature: Old Testament	D-2: Econom	ics	* HIST 4H	History of World Civilization — Honors
* HIST 1	History of the United States	LIT 47	The Bible as Literature: New Testament	AGAG 1	Food Production, Land Use and Politics —	* HIST 7	History of the United States
* HIST 3	History of World Civilization	PHIL 5	Introduction to Philosophy		A Global Perspective	* HIST 7H	History of the United States — Honors
* HIST 3H	History of World Civilization — Honors	PHIL 5H	Introduction to Philosophy – Honors	AGFR 20	Conservation of Natural Resources	* HIST 8	History of the United States
* HIST 4	History of World Civilization	PHIL 12	Ethics	BUSC 1A	Principles of Economics – Macroeconomics	* HIST 8H	History of the United States — Honors
* HIST 4H	History of World Civilization — Honors	PHIL 12H	Ethics — Honors	BUSC 1AH	Principles of Economics —	* HIST 10	History of Asia
* HIST 7	History of the United States	PHIL 15	Major World Religions		Macroeconomics — Honors	* HIST 11	History of Asia
* HIST 7H	History of the United States — Honors	PHIL 15H	Major World Religions — Honors	Attention	It is recommended that you use one of the	antions halou	y as part of the Qunits required in Area D
* HIST 8	History of the United States	PHIL 20A	History of Western Philosophy	Attention:	it is recommended that you use one of the	סאנוסווז מפוטא	v as part of the 5 units required in Area D.
* HIST 8H	History of the United States — Honors	PHIL 20B	History of Western Philosophy	CSII AME	RICAN INSTITUTIONS & U.S. HISTORY GRA	DIIATION DEC	HIIREMENT.
* HIST 10	History of Asia	SIGN 101	American Sign Language 1			IDUMITUR NEC	QUINLINEI().
* HIST 11	History of Asia	SIGN 102	American Sign Language 2	Option 1:		.1 04	
* HIST 19	History of Mexico	SIGN 103	American Sign Language 3		If Option #1 is selected, DO NOT select a		
* HIST 30	History of the African American	SIGN 104	American Sign Language 4	Option 2:	Completion of one course from U.S. His	tory plus one c	ourse from American Institutions:
* HIST 31	History of the African American	SIGN 202	American Deaf Culture		United States History:		American Institutions:
* HIST 35	History of Africa	SPAN 1	Elementary Spanish		•	T 31 HIST	
* HIST 36	Women in American History —	SPAN 2	Continuing Elementary Spanish			T 36	POLI 1H POLI 35
"""	Beyond the Stereotypes	SPAN 3	Intermediate Spanish	The two	courses from Option 1 or Option 2 may be use		
* HICT 30	California History	SDAN A	Continuing Intermediate Spanish	lile two (ourses from option 1 of option 2 may be us	eu as part or tr	IC 7 UIIILS IUI ANEA D.

Beyond the Stereotypes California History

* HIST 39

SPAN 4

Continuing Intermediate Spanish

* HIST 19 * HIST 30 * HIST 31 * HIST 35 * HIST 36 * HIST 39 * HIST 40 * HIST 44	History of Mexico History of the African American History of the African American History of Africa Women in American History — Beyond the Stereotypes California History History of the Mexican American History of Native Americans	NF 10 NF 25 NF 25H NF 28 PE 34 PSYC 14 * PSYC 25 PSYC 26	Nutrition for Personal Health and Wellness Essentials of Nutrition Essentials of Nutrition — Honors Cultural and Ethnic Foods Fitness for Living Developmental Psychology The Psychology of Women
	,		, , ,
* HIST 44	History of Native Americans	PSYC 26	Psychology of Sexuality
D-7: Interdis	ciplinary Social or Behavioral	PSYC 33	Psychology for Effective Living
* CHLD 10	Child Growth and Development	SOC 15	Child Development
* CHLD 10H	Child Growth and Development — Honors		

CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION REQUIREMENTS 2009-10

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
D. O. Davehal	logu

Intercultural Communication

Interpersonal Communication

SPCH 26H Interpersonal Communication — Honors

Intercultural Communication — Honors

D-9: Psychology

SPCH 7

SPCH 7H

SPCH 26

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

Area E

AD 3

Lifelong Understanding & Self Development (3 units) Select at least one course.

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

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 2009 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.
- 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

THE UNIVERSITY OF CALIFORNIA

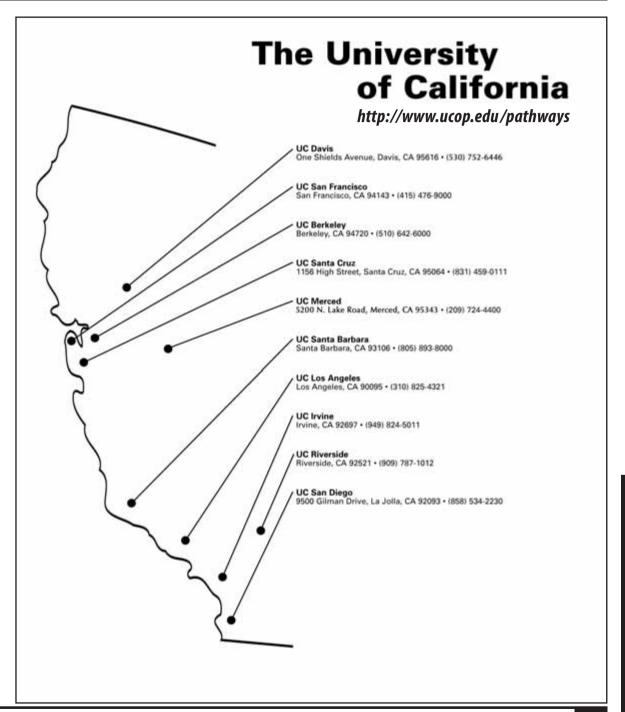
UC Minimum Admission Requirements

There are several ways to meet the University's minimum admission requirements for transfer students, as described below. The path you use depends on the degree to which you satisfied UC's minimum eligibility requirements for freshmen, at the time you graduated from high school. In all cases, you must have at least a "C" (2.0) grade point average in all transferable coursework. If you need assistance in determining whether you met the requirements, contact an educational advisor in the Counseling Center.

Minimum Admission Requirements for California Residents Transferring to UC

- 1. 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 vour 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 pass/no pass; 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; and
 - four transferable college courses (3 semester or 4-5 auarter 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) 2009-10

The requirements listed below are for the 2009-2010 academic year and are based upon information available at the time of catalog publication. Students may contact the Counseling Center for most current information at (909) 594-5611, ext. 4293.

Completion of the IGETC will permit a student to transfer from Mt. SAC to a campus in either the University of California UC or CSU will certify the coursework. Mt. SAC will certify coursework from other campuses according to the IGETC (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 lowerdivision 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

list of the originating campus. A minimum grade of "C" is required in each course. (A grade of "C—" is not acceptable.)

Students beginning Fall 2009 must follow 2009-2010 IGETC requirements. Courses are approved for the academic year in which they were completed. Students may obtain a copy from the Counseling Center.

Area 1	Area 3		MUS 15 THTR 10	Rock Music History and Appreciation History of Theater Arts	ITAL 6 ITAL 60	Continuing Advanced Italian Italian Culture through Cinema
nglish Communication	Arts and Humanities		,		JAPN 3	Intermediate Japanese
elect <u>one</u> course from each group:		ourses minimum, at least <u>one</u> course from	Humanities		JAPN 4	Continuing Intermediate Japanese
iroup A: English Composition		o and <u>one</u> course from the Humanities group:	CHIN 3	Intermediate Chinese	JAPN 5	Advanced Japanese
ENGL 1A Freshman Composition, <u>or</u>	Arts Courses		CHIN 4	Continuing Intermediate Chinese	LIT 1	Early American Literature
ENGL 1AH Freshman Composition — Honors	AHIS 1	Understanding the Visual Arts, <u>or</u>	ENGL 1B	English — Introduction to Literary Types	LIT 2	Modern American Literature
iroup B: Critical Thinking – Composition	ARTB 1	Understanding the Visual Arts	ENGL 1BH	English — Introduction to Literary Types —	LIT 3	Multicultural American Literature
ENGL 1C Critical Thinking and Writing, or	AHIS 1H	Understanding the Visual Arts — Honors		Honors	LIT 6A	Survey of English Literature
ENGL 1CH Critical Thinking and Writing — Honors	AHIS 3	History of Women and Gender in Art	FRCH 3	Intermediate French	LIT 6B	Survey of English Literature
PHIL 9 Critical Thinking and Logical Writing	AHIS 3H	History of Women and Gender in Art –	FRCH 4	Continuing Intermediate French	LIT OD LIT 10	Survey of Shakespeare
		Honors	FRCH 5	Advanced French		
roup C: Oral Communication	AHIS 4	History of Western Art: Prehistoric	FRCH 6	Continuing Advanced French	LIT 11A	World Literature
SU requirements only		through Gothic	FRCH 60	French Culture through Cinema	LIT 11B	World Literature
SPCH 1A Public Speaking, <u>or</u>	AHIS 4H	History of Western Art: Prehistoric	GERM 3	Intermediate German	LIT 14	Introduction to Modern Poetry
SPCH 1AH Public Speaking — Honors		through Gothic — Honors	HIST 1	History of the United States	LIT 15	Introduction to Cinema
Area 2	AHIS 5	History of Western Art: Renaissance	HIST 3	History of World Civilization	LIT 20	African American Literature
		through Modern	HIST 3H	History of World Civilization — Honors	LIT 25	Contemporary Mexican American
Mathematical Concepts and Quantitative Reasoning	AHIS 5H	History of Western Art: Renaissance	HIST 4	History of World Civilization		Literature
elect <u>one</u> course from:		through Modern — Honors	HIST 4H	History of World Civilization — Honors	LIT 33	Images of Women in Literature
MATH 110 Elementary Statistics	AHIS 6	History of Modern Art	HIST 7	History of the United States	LIT 35	Science Fiction and Fantasy Survey
MATH 110H Elementary Statistics — Honors	AHIS 6H	History of Modern Art — Honors	HIST 7H	History of the United States — Honors	LIT 36	Introduction to Mythology
MATH 120 Finite Mathematics	AHIS 10	A History of Greek and Roman Art and	HIST 8	History of the United States	LIT 46	The Bible as Literature: Old Testament
MATH 130 College Algebra		Architecture	HIST 8H	History of the United States — Honors	LIT 47	The Bible as Literature: New Testamen
MATH 140 Calculus for Business	AHIS 11	History of African, Oceanic, and Native	HIST 10	History of Asia	PHIL 5	Introduction to Philosophy
MATH 160 Precalculus Mathematics		American Art	HIST 11	History of Asia	PHIL 5H	Introduction to Philosophy – Honors
MATH 180 Calculus and Analytic Geometry	AHIS 12	History of Precolumbian Art	HIST 19	History of Mexico	PHIL 12	Ethics
MATH 181 Calculus and Analytic Geometry	AHIS 12H	History of Precolumbian Art — Honors	HIST 30	History of the African American	PHIL 12H	Ethics — Honors
MATH 280 Calculus and Analytic Geometry	ARCH 31	World Architecture I	HIST 31	History of the African American	PHIL 15	Major World Religions
MATH 285 Linear Algebra and Differential Equations	ARCH 32	World Architecture II	HIST 35	History of Africa	PHIL 15H	Major World Religions — Honors
PSYC 10 Statistics for the Behavioral Sciences	DN-T 20	History and Appreciation of Dance	HIST 36	Women in American History —	PHIL 20A	History of Western Philosophy
	MUS 11A	Music Literature Survey		Beyond the Stereotypes	PHIL 20B	History of Western Philosophy
	MUS 11B	Music Literature Survey	HIST 39	California History	SIGN 104	American Sign Language 4
	MUS 11B	History of Jazz	HIST 40	History of the Mexican American	SIGN 202	American Deaf Culture
	MUS 12	Introduction to Music Appreciation	HUMA 1	The Humanities	SPAN 3	Intermediate Spanish
	MUS 13	Introduction to Music Appreciation —	ITAL 3	Intermediate Italian	SPAN 4	Continuing Intermediate Spanish
	חכו כטואו	Honors	ITAL 4	Continuing Intermediate Italian	SPAN 5	Advanced Spanish
	MUS 14A	World Music	ITAL 5	Advanced Italian	SPAN 6	Continuing Advanced Spanish
		VVIII II I IVIII SII	IIIALJ	navancea Italian	SPAN 25	Spanish Literature

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, or General Cultural Anthropology ANTH 22 BUSC 1A Principles of Economics: Macroeconomics BUSC 1AH Principles of Economics: Macroeconomics - Honors Principles of Economics: Microeconomics BUSC 1B BUSC 1BH Principles of Economics: Microeconomics – Honors Human Geography GEOG 2 GEOG 2H Human Geography — Honors GEOG 8 The Urban World GEOG 30 Geography of California HIST 44 History of Native Americans P0111 Political Science POLI 1H Political Science — Honors POLI 5 Political Science Theory POLL 9 Introduction to International Relations POLI 25 Politics of the Mexican American POLI 35 African American Politics PSYC 1A Introduction to Psychology Introduction to Psychology — Honors PSYC 1AH PSYC 19 Abnormal Psychology The Psychology of Women PSYC 25 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 5H Introduction to Criminology — Honors SOC 20 Sociology of Ethnic Relations SOC 20H Sociology of Ethnic Relations — Honors Intercultural Communication SPCH 7 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

INTERS	EGMENTAL GENERAL EDUCATION
ASTR 8	Introduction to Stars, Galaxies, and
CHEM 10	the Universe Chemistry for Allied Health Majors
CHEM 20	Introductory Organic and Biochemistry
CHEM 40	Introduction to General Chemistry
<u>CHEM 50</u>	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 1LH	Physical Geography Laboratory Physical Geography Laboratory — Honors
GEOG 1LH GEOL 1	Physical 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
<u>OCEA 10L</u>	Introduction to Oceanography Laboratory
PHSC 3	Energy Science
PHYS 1	Physics
PHYS 2AG	General Physics
PHYS 2BG	General Physics
PHYS 4A	Engineering Physics
PHYS 4B PHYS 4C	Engineering Physics Engineering Physics
	, ,
Biological Sci	
ANAT 10A	Introductory Human Anatomy Introductory Human Physiology
<u>ANAT 10B</u> <u>ANAT 35</u>	Human Anatomy
ANAT 36	Human Physiology
ANTH 1	Biological Anthropology
ANTH 1H	Biological Anthropology — Honors
ANTH 1L	Biological Anthropology Laboratory
BIOL 1	General Biology
BIOL 2	Plant and Animal Biology
BIOL 4	Biology for Majors
BIOL 4H	Biology for Majors — Honors
BIOL 6	Humans and the Environment
BIOL 6L	Humans and the Environment Laboratory
BIOL 8	Cell and Molecular Biology
BIOL 20	Marine Biology
BIOL 21	Marine Biology Laboratory Principles of Microbiology
MICR 1	
MICR 22 PSYC 1B	Microbiology Biological Psychology
LAICID	Diviogical Esychology

UC REQUIREMENT ONLY

Language other than English:

TRANSFER CURRICULUM (IGETC) 2009-10

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.

ARAB 1	Elementary Arabic	JAPN 1	Elementary Japanese
CHIN 1	Elementary Chinese	SIGN 101	American Sign Language I
FRCH 1	Elementary French	SPAN 1	Elementary Spanish

GERM 1 Elementary German ITAL 1 Elementary Italian

CSU GRADUATION REQUIREMENTS ONLY IN U.S. HISTORY, CONSTITUTION, AND AMERICAN IDEALS:

Note: UCSB requires a college-level U.S. history or government course.

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.

SPAN 11 Spanish for the Spanish Speaking

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 UniversityHarvey Mudd College
- Holy Names College
- Hope International University
- Humphreys College
- · John F. Kennedy University
- · Keck Graduate Institute
- La Sierra University
- · Laguna College of Art and Design
- · Loma Linda University
- · Loyola Marymount University
- Marymount College
- The Master's College
- Menlo College
- Mills College
- 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
- Savbrook 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 the Counseling Center. You may also obtain information from the aiccu.edu.



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	175
AERO	Aeronautics	CISX	Computer Information Systems: Auxiliary	MATH		
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	METO	Meteorology	
AGFR	Agriculture: Forestry, Conservation	CISN	Computer Information Systems: Networking	MICR	Microbiology	
AGAG	Agriculture: General Subjects	CISP	Computer Information Systems: Programming 146	MUS	Music	
AGLI	Agriculture: Livestock Production	CISS	Computer Information Systems: Security	NURS	Nursing	183
AGOR	Agriculture: Ornamental Horticulture 117	CISW	Computer Information Systems: Web Applications 148	NF	Nutrition & Food	184
AGPE	Agriculture: Pet Science	CSCI	Computer Science	OCEA	Oceanography	
AIRC	Air Conditioning & Refrigeration	CORS	Correctional Sciences	PHIL	Philosophy	185
AIRT	Air Traffic Control121	COUN	Counseling	PHOT	Photographics	
1	Aircraft Maintenance Technology122	DNCE	Dance	PE-L	Physical Education: Adaptive	
AD	Alcohol Drug Counseling	DN-T	Dance: Theory	PE-A	Physical Education: Aquatics	
	American Language	DSPS	Disabled Students	PE-X	Physical Education: Athletics	
ANAT	Anatomy & Physiology		Education	PE-F	Physical Education: Fitness	
	Anthropology	ELEC	Electronics	PE-I	Physical Education: Individual	
	Arabic	EST	Electronics Systems Technology	PE-S	Physical Education: Team Sports	
	Architectural Technology	EMS	Emergency Medical Service	PE	Physical Education: Theory	
	Art History	EMT	Emergency Medical Technician	PHSC PHTH	Physical Science	
	Art: Advertising Design/Graphics	ENGR EDT	Engineering	PAP	Physical Therapy	
ARTB	Art: Basic Studio Arts	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	German	SL	Service Learning	
BUSA	Business: Accounting	HIST	History	SIGN	Sign Language & Interpreting	
BUSC	Business: Economics	HT	Histotechnology	SOC	Sociology	
BUSL	Business: Law	HRM	Hospitality & Restaurant Management	SPAN	Spanish	206
BUSM	Business: Management	HUMA	Humanities	SPCH	Speech	207
BUS0	Business: Office Technology	INSP	Inspection & Estimating, Building170	STDY	Study Techniques	208
PLGL	Business: Paralegal	ID	Interior Design170	SURV	Surveying	
1	Business: Real Estate	ITAL	Italian 171	TECH	Technology & Related Courses	
	Business: Sales, Merchandising & Marketing 138	JAPN	Japanese	THTR	Theater Arts	
	Chemical Technology	JOUR	Journalism		Transportation	210
	Chemistry		Latin	TUTR	Tutor Training	
1	Child Development	LEAD	Leadership	WATR	2,	
	Chinese	LERN	Learning Assistance Services	WELD	Welding	210
	Computer and Networking Tech	LIBR	Library & Instructional Media			
COMP	Computer Applications	LIT	Literature			

ADMINISTRATION OF JUSTICE: LAW ENFORCEMENT

ADJU 1 — The Administration of Justice System 3 Units Degree Applicable, CSU, UC (CAN AJ02)

54 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

3 UnitsJustice System Degree Applicable, CSU

54 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 Degree Applicable, CSU, UC (CAN AJ04)

54 hours lecture

Provides an overview of California criminal law from the perspective of the law enforcement officer.

ADJU 4 — Legal Aspects of Evidence

3 Units

Degree Applicable, CSU

54 hours lecture

Introduction to criminal evidence, including admissibility, witness competency, privileged communication, hearsay, and collection and preservation of evidence.

ADJU 5 — Community Relations

3 Units

Degree Applicable, CSU, UC

54 hours lecture

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 hours lecture

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

Degree Applicable

Degree Applicable

54 hours lecture

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

Degree Applicable, CSU

54 hours lecture

Prerequisite: Eligibility for English 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

3 Units

Degree Applicable

54 hours lecture

Prereauisite: Eliaibility for Enalish 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

Degree Applicable, CSU

54 hours lecture

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 Degree Applicable

54 hours lecture

Techniques for proper documentation of crime reports and related law enforcement records. Use of simulations and role-playing.

ADJU 74 — Vice Control

3 Units

Degree Applicable

54 hours lecture

Prerequisite: Eligibility for English 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

Degree Applicable, CSU

72 hours lecture

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

Degree Applicable, CSU

54 hours lecture

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 Applicable, CSU

54 hours lecture

Advisorv: 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 Applicable, CSU

54 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

Degree Applicable, CSU

54 hours lecture

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

Degree Applicable, CSU

54 hours lecture

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

Degree Applicable, CSU

36 hours lecture

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 Applicable, CSU

54 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 Applicable

(May be taken four times for credit) (May be taken for Pass/No Pass only)

18 hours lecture

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 Applicable

(May be taken four times for credit) (May be taken for Pass/No Pass only)

54 hours lab

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

.5 Unit

Degree Applicable

(May be taken for Pass/No Pass only)

27 hours lab

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 Degree Applicable

(May be taken for Pass/No Pass only)

27 hours lab

Advisory: AERO 30 or AERO 41

Flight simulator training in the ATC-810 simulator in preparation for the multi-engine rating and advanced instrument flight. Emergency procedures for multi-engine aircraft and high performance airplanes.

AERO 45A — Multi-Engine Turbine Aircraft Operations 3 Units Not Degree Applicable

54 hours lecture

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

3 Units

Not Degree Applicable

54 hours lecture

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 (CAN AGO2) Degree Applicable, CSU, UC

54 hours lecture

Advisory: Eligibility for ENGL 68

Use of word processing, data base, spreadsheets, and graphic programs for students interested in agricultural business, nursery and landscape, equipment, and farm management.

AGRICULTURE: ANIMAL HEALTH TECHNOLOGY

AGHE 54 — Veterinary Office Procedures

3 Units

Degree Applicable

54 hours lecture

Includes veterinary hospital records, client relations, medical terminology, filing of governmental reports, legal responsibilities of animal health technicians and application of veterinary medical ethics.

AGHE 60 — Medical Nursing and Animal Care

4 Units

Degree Applicable, CSU

54 hours lecture

54 hours lab

Prerequisite: AGL1 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

Degree Applicable, CSU

54 hours lecture

54 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

Degree Applicable, CSU

54 hours lecture

54 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

Degree Applicable, CSU

54 hours lecture

54 hours lab

Prereauisite: AGLI 95

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

Degree Applicable, CSU

54 hours lecture

Prerequisite: Formal admittance to Advanced Class Status in the Registered Veterinary Technology Program, and completion of MATH 51 or MATH 51B or AGAG 91

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

Degree Applicable, CSU

18 hours lecture

54 hours lab

Prerequisite: AGLI 95 and formal admittance to the Registered Veterinary Technology Program

Basic concepts and skills of veterinary positioning of canine, feline. avian, reptilian species, and livestock for radiography; processing of the radiograph; radiation safety; basic technique and instrumentation; contrast radiography and ultrasound imaging. Emphasizes performance of x-ray procedures for the veterinary practitioner.

AGHE 79 — Laboratory Animal Medicine and Care

3 Units

Degree Applicable, CSU

36 hours lecture 54 hours lab

Laboratory animal medicine, care and procedures, rules and regulations governing laboratory animals.

AGHE 83A — Work Experience in Animal Health

1 to 2 Units Degree Applicable

(May be taken four times for credit) (May be taken for Pass/No Pass only)

75 to 150 hours lab

Prerequisite: Formal admittance 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 Degree Applicable

54 hours lab

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 Degree Applicable

54 hours lab

Spring field study course in the collection, handling and analysis of feces, urine and blood samples of pet and domestic animals. Practical experience in applied clinical procedure and techniques, including 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 Degree Applicable

18 hours lecture

Prerequisite: Completion of the Registered Veterinary Technology program 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 Degree Applicable, CSU

54 hours lecture

54 hours lab

Prerequisite: Formal admitance 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

3 Units

(CAN AG06)

Degree Applicable, CSU, UC

54 hours lecture

Fundamental problems and essential concepts of animal production. Includes the study of the types of domestic animals and their utilization by humans.

AGAN 2 — Animal Nutrition

3 Units

(CAN AG12)

Degree Applicable, CSU, UC

54 hours lecture

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

Degree Applicable, CSU

36 hours lecture

54 hours lab

Methods of proper handling for large and small animals, including chemical and physical techniques of restraint.

AGAN 94 — Animal Breeding

3 Units

Degree Applicable

54 hours lecture

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

Degree Applicable, CSU, UC

54 hours lecture

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

AGAG 1 — Food Production, Land Use and Politics

3 Units

- A Global Perspective

Degree Applicable, CSU, UC

54 hours lecture

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 to 4 Units

Degree Applicable

(May be taken four times for credit) (May be taken for Pass/No Pass only)

75 to 300 hours lab

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

3 Units

Degree Applicable

54 hours lecture

Prereauisite: Eliaibility 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

Degree Applicable, CSU

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

36 hours lecture

In order to offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special 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 Degree Applicable

54 hours lecture

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

(CAN AG24)

Degree Applicable, CSU

36 hours lecture

54 hours lab

A study of the various types of swine enterprises and the ways and means of entering them. Swine management, including handling, feeding, breeding, farrowing, butchering, and marketing. Practical skills are taught using the college farm.

AGLI 16 — Horse Production

4 Units

Degree Applicable, CSU, UC

Degree Applicable, CSU

(CAN AG26) 54 hours lecture

54 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

(CAN AG22)

36 hours lecture

54 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

Degree Applicable, CSU

54 hours lecture

54 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

Degree Applicable, CSU

18 hours lecture

54 hours lab

Emphasizes proper horse hoof care; shoeing, trimming and disease recognition and control.

AGLI 20 — Horse Behavior and Training

2 Units

Degree Applicable

18 hours lecture

54 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 Degree Applicable, CSU

(CAN AG20) 36 hours lecture

54 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

Degree Applicable, CSU, UC

18 hours lecture

54 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 96 — Animal Sanitation and Disease Control 3 Units

Degree Applicable, CSU

54 hours lecture

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

Degree Applicable

18 hours lecture

54 hours lab

Theory and application of artificial insemination of domestic animals, including semen evaluation and processing, heat synchronization, and pregnancy diagnosis.

AGRICULTURE: ORNAMENTAL HORTICULTURE

AGOR 1 — Horticultural Science

3 Units

(CAN AG08) Degree Applicable, CSU

54 hours lecture

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 (CAN AG10) Degree Applicable, CSU

36 hours lecture

54 hours lab

Plant propagation and production practices with emphasis on florists' plants, woody ornamentals and fruits. Commercial techniques include seed propagation, cuttings, grafting and budding, layering, fern sporing and division. Stresses greenhouses and other environmental structures for plant propagation and production.

AGOR 4 — Park Management

3 Units

Degree Applicable

54 hours lecture

Management and operation of municipal park departments. Includes the development of budgets, purchasing, park policies, planning and scheduling.

AGOR 5 — Park Facilities

3 Units Degree Applicable

Degree

54 hours lecture

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

Degree Applicable, CSU

36 hours lecture

54 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

Degree Applicable

(May be taken for option of letter grade or Pass/No Pass) 54 hours lecture

Design, installation and maintenance practices used in interior landscaping, Includes identification, culture and care of plants suitable for interior use. Field trip required.

AGOR 24 — Integrated Pest Management

3 Units

Degree Applicable, CSU

36 hours lecture

54 hours lab

Identifies common agricultural pests in Southern California and analyzes physical, biological and chemical pest control principles and practices. Stresses use, safety, equipment, laws, and regulations of pesticides.

AGOR 29 — Ornamental Plants - Herbaceous

3 Units

(CAN AG18) Degree Applicable, CSU, UC

36 hours lecture

54 hours lab

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 Nurserymen (CAN) and California Landscape Contractors Association (CLCA) certification test plant lists.

AGOR 30 — Ornamental Plants - Trees and Woody Shrubs 3 Units Degree Applicable, CSU, UC

36 hours lecture

54 hours lab

Identification, growth habits, culture and ornamental use of landscape trees and shrubs adapted to climates of California. Plants emphasized will come from the California Association of Nurserymen (CAN) and California Landscape Contractors Association (CLCA) certification test plant lists.

AGOR 32 — Landscaping and Nursery Management

Degree Applicable, CSU

3 Units

36 hours lecture 54 hours lab

Advisory: AGOR 1

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.

AGOR 39 — Turf Grass Production and Management 3 Units

Degree Applicable, CSU

36 hours lecture 54 hours lab

Introduction to cultivation, maintenance and management of turfgrasses utilized for athletic fields, golf courses, parks, cemeteries, commercial and residential lawns, Identification, installation, cultural requirements and maintenance practices are emphasized. Field trips required.

AGOR 40 — Sports Turf Management

3 Units

Degree Applicable

(May be taken for option of letter grade or Pass/No Pass) 36 hours lecture

54 hours lab

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.

AGOR 50 — Soil Science and Management 3 Units (CAN AG14) Degree Applicable, CSU, UC

36 hours lecture 54 hours lab

Field trips included.

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 Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

54 hours lab

Selection, operation, repair and maintenance of power equipment used in the landscape industry. Includes 2WD and 4WD tractors, skip loader, skid steer loader, backhoe, lawnmowers, edgers, weed eaters, blower/vacuum, rotatillers, chainsaws, spraying equipment and allterrain vehicles. Laboratory includes actual hands-on applications of this equipment.

AGOR 52 — Hydraulics

3 Units

Degree Applicable, CSU

36 hours lecture

54 hours lab

Operation, maintenance, and repair of hydraulic systems. Emphasis: pumps, valves, cylinders, flow control, reservoirs, lines, motors, and hydrostatic transmissions. Laboratory provides hands-on application of hydraulic systems.

AGOR 53 — Small Engine Repair I

3 Units

Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

54 hours lab

Principles and repair of small engines used in landscape, industrial and agricultural applications, Includes repairs of lawnmowers, chainsaws, 2cycle engine, 4-cycle engine, spraying equipment, all-terrain vehicles, and other related gas-powered equipment.

AGOR 54 — Small Engine Repair II

3 Units

Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

54 hours lab

Advanced repair and maintenance of mid-horsepower gasoline and diesel engines. Multi-cylinder air- and water-cooled engines used in landscape, industrial and agricultural applications. Repair of ridemowers, generator engines, air compressor engines, 2-cycle and 4-cycle engines, spraying equipment, all-terrain vehicles, and other related gas-powered equipment. Students gain actual hands-on experience maintaining and overhauling engines.

AGOR 55 — Diesel Engine Repair

3 Units

Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

54 hours lab

Repair and maintenance of diesel engines used to power industrial, landscape and agricultural equipment. Students gain actual hands-on experience maintaining, servicing, and repairing diesel engines.

AGOR 56 — Engine Diagnostics

3 Units Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

54 hours lab

Analysis and evaluation of tractor power failure. Students gain actual experience in the proper diagnostic procedures of power equipment. Service, maintenance and repair of tractor electrical systems: electrical wiring, voltage regulators, generators, alternators, switches, gauges, batteries and test equipment.

AGOR 57 — Power Train Repair

3 Units

Degree Applicable

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

54 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 Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

54 hours lab

Design and application of turf and ornamental irrigation systems. Design techniques, sprinkler system components and hydraulic principles used in nursery management, interior design, residential and commercial landscaping. Special emphasis is given to water conservation incorporating controlled flow technologies.

AGOR 63 — Landscape Irrigation Systems Management 3 Units Degree Applicable

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

54 hours lab

Advisory: Eligibility for ENGL 68

A systematic approach to water conservation in the landscape. Repair techniques that will allow a current system to efficiently operate to its initial design. Trouble shooting procedures including field testing of valves and controllers. Irrigation efficiency test will be incorporated to demonstrate proper methods of water audits.

AGOR 64 — Landscape Irrigation - Drip and Low Volume 3 Units Degree Applicable

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

54 hours lab

Conservation of water in the landscape by utilization of drip and low-flow irrigation practices. Design, operation and maintenance of drip and low-flow irrigation systems, including determination of irrigation requirements, selection of emitters and low-flow devices, and uniformity of water distribution. Students will gain hands-on experience in design and installation techniques.

AGOR 71 — Landscape Construction Fundamentals 3 Units

Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

54 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 utilities (gas, water, electricity), woodworking, masonry and surveying techniques applied to landscaping.

AGOR 72 — Landscape Hardscape Applications

Degree Applicable, CSU

3 Units

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

54 hours lab

Landscape construction pertaining to all hardscape features. Course covers 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

Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

54 hours lecture

Landscape laws, contracting, and estimating as it pertains to Landscape Construction. Information covered will be helpful for the licensing exam administered by the state of California C-27 classification. Students will gain hands-on experience of contracting and running a business.

AGOR 75 — Urban Arboriculture

Degree Applicable

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

54 hours lab

Care and management of ornamental trees. Includes pruning techniques, fruit tree care, bracing, cabling, and pest control. Safe practices in the use of equipment including the use of ropes, chippers, boom trucks, chain saws, and identification and evaluation of common trees. Prepares students for the tree worker and arborist certification exams.

AGOR 91 — Work Experience in Nursery Operations 1 to 4 Units Degree Applicable

(May be taken four times for credit) (May be taken for Pass/No Pass only)

75 to 300 hours lab

Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog

This course is designed to provide majors with actual on-the-job experience in an approved work station which is related to classroom instruction. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. It is 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.

AGRICULTURE: PET SCIENCE

AGPE 70 — Pet Shop Management

3 Units Degree Applicable

54 hours lecture

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

Degree Applicable, CSU

36 hours lecture

54 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 grooming of dogs. May include field trips.

AGPE 72 — Feline Management

3 Units

Degree Applicable, CSU

54 hours lecture

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

Degree Applicable

36 hours lecture

Advisory: Eligibility for ENGL 68

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.

AGPE 74 — Reptile Management

2 Units

Degree Applicable

36 hours lecture

Advisory: Eligibility for ENGL 68

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.

AGPE 76 — Aviculture - Cage and Aviary Birds

3 Units

Degree Applicable

54 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.

AIR CONDITIONING AND REFRIGERATION

AIRC 10 — Technical Mathematics in Air **Conditioning and Refrigeration**

2 Units

27 hours lecture

27 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

Degree Applicable

2 Units

18 hours lecture

54 hours lab

Fundamentals of welding related to the field of air conditioning and refrigeration with emphasis on the sterile techniques and skills required for joining copper refrigerant lines and the procedures for light fabrication.

AIRC 12 — Air Conditioning Codes and Standards

3 Units

Degree Applicable

54 hours lecture

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 20 — Refrigeration Fundamentals

3 Units Degree Applicable

36 hours lecture

72 hours lab

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**

4 Units

Degree Applicable

54 hours lecture

54 hours lab

Electrical principles and practices used in air conditioning and refrigeration as applied to the development and interpretation of schematics and the sequential approach to wiring circuits including power supplies, motors, and controls. Develops skills for designing electrical circuits, and electrical trouble shooting.

AIRC 26A — Heat Pump Fundamentals

1.5 Units

Degree Applicable

27 hours lecture

Advisory: AIRC 25 taken prior Degree Applicable

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

Degree Applicable

36 hours lecture

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

Degree Applicable

54 hours lecture

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

Degree Applicable

54 hours lecture

54 hours lab

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.

AIRC 32A — Air Properties and Measurement

1.5 Units

Degree Applicable

27 hours lecture

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

Degree Applicable

27 hours lecture

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

Degree Applicable

54 hours lecture

54 hours lab

Advisory: AIRC 31, AIRC 32A, AIR 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

Degree Applicable

27 hours lecture

27 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 Degree Applicable

54 hours lecture

54 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

Not Degree Applicable

1 to 4 Units

(May be taken four times for credit) (May be taken for Pass/No Pass only)

75 to 300 hours lab

Prerequisite: Approval of college Work Experience supervisor and compliance with Work Experience regulations as designated in the College Catalog

This course is designed to combine actual job experience in Air Conditioning and 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

Degree Applicable, CSU

36 hours lecture 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

Degree Applicable, CSU

54 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

Degree Applicable, CSU

27 hours lecture Advisory: AIRT 42

Leadership skills for aviation professionals, with emphasis on air traffic control scenarios. Control tower simulations, including communication and conflict resolution. Coordination and control of air traffic utilizing FAA standards and interpersonal team skills.

AIRT 45 — Flight Services

3 Units

Degree Applicable, CSU

54 hours lecture

Advisory: AERO 23, AERO 29

Air traffic control procedures utilized by Flight Service Stations in providing flight assistance and communication services. Air traffic pilot briefings, emergency procedures, flight handling, search and rescue, and introduction to data transmission procedures and services.

AIRT 47 — Work Experience in Air Traffic Control 1 Unit

Not Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

75 hours lab

Prerequisite: Compliance with Work Experience regulations as designated in the College Cataloa

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

1 Unit Degree Applicable

54 hours lab

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 Degree Applicable

(May be taken four times for credit)

54 hours lab

Advisory: AIRT 51 and AERO 30 taken prior or concurrently
Simulation of a radar approach control facility concentrating on approach
and departure procedures using appropriate phraseology, flight progress
strip markings and radar separation standards. Students who repeat this
course will improve skills through further instruction and practice.

AIRCRAFT MAINTENANCE TECHNOLOGY

AIRM 65A — Aircraft Powerplant Maintenance Technology

13 Units

Degree Applicable, CSU

108 hours lecture

376 hours lab

Theory and overhaul of aircraft reciprocating and turbine powerplants. Approved and required for the FAA powerplant certification and Airframe and Aircraft Powerplant Maintenance Technology major.

AIRM 65B — Aircraft Powerplant Maintenance Technology

Degree Applicable, CSU

13 Units

108 hours lecture

376 hours lab

Reciprocating and turbine engine systems and components. Approved and required for the FAA powerplant certification and Airframe and Aircraft Powerplant Maintenance Technology major.

AIRM 66A — Airframe Maintenance Technology 13 Units

Degree Applicable, CSU

108 hours lecture

376 hours lab

Theory of flight. Aircraft structures including inspection, maintenance, repair, and alteration. Approved and required for the FAA airframe certification and Airframe and Aircraft Powerplant Maintenance Technology major.

AIRM 66B — Airframe Maintenance Technology

Degree Applicable, CSU

13 Units

108 hours lecture

376 hours lab

Airframe systems and components. Approved and required for the FAA and required airframe certification and the Airframe and Aircraft Powerplant Maintenance Technology major.

AIRM 70A — Aircraft Maintenance Electricity and Electronics

3 Units

Degree Applicable

36 hours lecture

72 hours lab

Advisory: AIRM 71

Basic electrical theory including units, terminology, applications of Ohm's Law in series and parallel circuits, nickel cadmium and lead acid storage batteries, generators and related control circuits, electrical wiring practices, and electrical measuring instruments construction and use. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology Major.

AIRM 70B — Aircraft Maintenance Electricity and Electronics

3 Units

Degree Applicable

36 hours lecture

72 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 tubes, digital electronics, microprocessors, computers, power distribution systems for large aircraft. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major.

AIRM 71 — Aviation Maintenance Science

6 Units Degree Applicable

108 hours lecture

Federal aviation regulations, interpretation of aircraft drawings, basic physics, technical mathematics, and aircraft weight and balance computations. FAA approved course required of all aircraft powerplant and airframe maintenance technology majors.

AIRM 72 — Aviation Materials and Processes

1.5 Units

Degree Applicable

18 hours lecture

36 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 Applicable

18 hours lecture

36 hours lab

Advisory: AIRM 70B, AIRM 72 (May be taken concurrently)

Theory and techniques of gas and inert gas welding as they apply to aircraft construction and repair. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major.

AIRM 74 — Aircraft Maintenance Technology -Work Experience

2 Units

(May be taken for Pass/No Pass only)

90 hours lab

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 or 150 paid 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 to 1 Unit

Degree Applicable

(May be taken four times for credit) (May be taken for Pass/No Pass only)

27 to 54 hours lab

Advisory: AIRM 65 A/B, or AIRM 66 A/B, or AIRM 90-93 A/B, or AIRM 95-98 A/B, or equivalent

Additional lab instruction for students needing FAA required hours to complete a training certificate or required remediation of program modules or completion of aboratory assignments. Students who repeat this course will improve skills through further instruction and practice.

AIRM 90A — Airframe Maintenance Technology

3 Units Degree Applicable

36 hours lecture

72 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

3 Units Degree Applicable

36 hours lecture

72 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 Degree Applicable

36 hours lecture 72 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 Degree Applicable

Degree Applicable 36 hours lecture

72 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 Aircraft Powerplant Maintenance Technology major.

AIRM 92A — Airframe Maintenance Technology

3 Units Degree Applicable

36 hours lecture

72 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 Degree Applicable

36 hours lecture 72 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

3 Units

Degree Applicable

36 hours lecture 72 hours lab

Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73

A FAA aproved course coveing 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

Degree Applicable

36 hours lecture

72 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 Degree Applicable

36 hours lecture

72 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

Degree Applicable

36 hours lecture

72 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

Degree Applicable

36 hours lecture

72 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

Degree Applicable

36 hours lecture

72 hours lab

Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73

Propeller theory, nomenclature, application, constant speed devices, and propeller controls. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology Major. Required for FAA certification.

AIRM 97A — Aircraft Powerplant Maintenance Technology

Degree Applicable

3 Units

36 hours lecture

72 hours lab

Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73

A FAA approved course covering instrumentation and smoke and fire detection/suppression systems used in small and large aircraft. Includes engine starting systems and electrical power generating devices.

AIRM 97B — Aircraft Powerplant Maintenance Technology

Degree Applicable

3 Units

36 hours lecture

72 hours lab

Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73 Reciprocating engine and turbine engine fuels, fuel metering devices, and system operation. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major.

AIRM 98A — Aircraft Powerplant Maintenance Technology

3 Units

Degree Applicable

36 hours lecture

72 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

Degree Applicable

3 Units

36 hours lecture 72 hours lab

Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73
Reciprocating and turbine engine lubricants and lubricating systems.
Approved by the FAA and required for the Airframe and Aircraft
Powerplant Maintenance Technology major.

ALCOHOL DRUG COUNSELING

AD 1 — Alcohol/Drug Dependency

3 Units Degree Applicable, CSU

54 hours lecture

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

s 3 Units Degree Applicable, CSU

54 hours lecture

Examines in-depth the physiological effect of alcohol and other drugs on the human body. Includes aspects of tolerance, habituation, cross tolerance and synergistic effect.

AD 3 — Chemical Dependency: Intervention, Treatment and Recovery

3 Units

Degree Applicable, CSU

54 hours lecture

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

Degree Applicable

54 hours lecture

Examines the history, law and psychology of domestic violence; cultural/social aspects; relationship to substance abuse.

AD 5 — Chemical Dependency: Prevention and Education

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1.5 Units

Degree Applicable, CSU

27 hours lecture

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

3 Units Degree Applicable, CSU

Dei

54 hours lecture

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

Degree Applicable

54 hours lecture

Advisory: AD 1, AD 2, AD 3 taken prior and AD 4, AD 5, AD 6 taken prior of concurrently

Introduces the theory and practice of group counseling, the group process and dynamics of group interaction.

AD 9 — Family Counseling

3 Units Degree Applicable

54 hours lecture

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 Degree Applicable

27 hours lecture

54 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

3 Units Degree Applicable

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

Degree Applicable, CSU

(May be taken for Pass/No Pass only)

27 hours lecture

126 hours lab

Advisory: AD 1, AD 2, AD 3, AD 4, AD 5, AD 6, and six units of Restricted Electives taken prior and AD 8, AD 9, AD 10, AD 11 taken prior or 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

Degree Applicable, CSU

(May be taken for Pass/No Pass only)

68 hours lecture

68 hours lab

Advisory: AD 10 and AD 13

The second of a two-semester sequence in which the student applies the values, concepts and skills gained from previous courses to the actual process of helping chemically dependent persons.

AMERICAN LANGUAGE

AMLA 21S — Accent Reduction

2 Units

Not Degree Applicable

(May be taken for option of letter grade or Pass/No Pass) 36 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 22S — American Language Interpersonal Communication

2 Units

Not Degree Applicable

(May be taken for option of letter grade or Pass/No Pass) 36 hours lecture

Enhances ability of non-native speakers to communicate in every day and academic situations. Emphasis on grammatical accuracy and sophisticaton as well as confidence in communications in pesonal and professional settings.

AMLA 235 — American Language Formal Speaking 2 Units

Not Degree Applicable

(May be taken for option of letter grade or Pass/No Pass) 36 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

Not Degree Applicable

(May be taken for option of letter grade or Pass/No Pass) 36 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

y 4 Units Not Degree Applicable

(May be taken for option of letter grade or Pass/No Pass) 72 hours lecture

Prerequisite: Satisfactory score on appropriate Reading Placement Test or successful completion of noncredit ESL Level 4
Basic reading and vocabulary for non-native speakers.

AMLA 32R — American Language Intermediate Reading 4 Units Not Degree Applicable

(May be taken for option of letter grade or Pass/No Pass) 72 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.

AMLA 33R — American Language Advanced Reading 4 Units Not Degree Applicable

(May be taken for option of letter grade or Pass/No Pass) 72 hours lecture

Prerequisite: Successful completion of AMLA 32R or satisfactory score on appropriate Reading Placement Test

Advanced reading and vocabulary for non-native speakers.

AMLA 41W — American Language Basic Writing 4 Units

Not Degree Applicable

(May be taken for option of letter grade or Pass/No Pass) 72 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.

AMLA 42W — American Language Intermediate Writing 4 Units Not Degree Applicable

(May be taken for option of letter grade or Pass/No Pass) 72 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.

AMLA 43W — American Language Advanced Writing 4 Units

Not Degree Applicable

(May be taken for option of letter grade or Pass/No Pass) 72 hours lecture

Prerequisite: Satisfactory score on the English Placement Test or successful completion of AMLA 42W

Advisory: AMLA 33R taken prior or concurrently

Advanced grammar and writing for non-native speakers.

AMLA 56 — American Language Nouns and Articles 1 Unit Not Degree Applicable

(May be taken for option of letter grade or Pass/No Pass)
18 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.

AMLA 57 — American Language Verb Review I 1 Unit

Not Degree Applicable

(May be taken for option of letter grade or Pass/No Pass)
18 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.

AMLA 58 — American Language Verb Review II 1 Unit Not Degree Applicable

(May be taken for option of letter grade or Pass/No Pass)
18 hours lecture

Advanced work on modals, passive voice, passive modals, and conditionals for non-native English students. Exercises and writing practice will emphasize improved verb usage in writing.

AMLA 59 — American Language Prepositions 1

Not Degree Applicable

(May be taken for option of letter grade or Pass/No Pass) 18 hours lecture

Designed to help non-native learners of English practice their use of prepositions in spoken and written English. Students will analyze prepositions and idiomatic expressions through reading and will apply their knowledge to written work.

AMLA 60 — American Language Verb Review III 1 Unit

Not Degree Applicable

(May be taken for option of letter grade or Pass/No Pass) 18 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.

AMLA 61 — American Language Word Forms

1 Unit

Not Degree Applicable

(May be taken for option of letter grade or Pass/No Pass)

18 hours lecture

Helps non-native speakers of English practice noun, verb, adjective and adverb word forms in spoken and written English.

ANATOMY AND PHYSIOLOGY

ANAT 10A - Introductory Human Anatomy

4 Units

Degree Applicable, CSU, UC

54 hours lecture

54 hours lab

A systematic study of the macroscopic and microscopic structures of the human body. Emphasis on cell structures, skeletal, muscular, respiratory, circulatory, nervous, digestive, excretory, endocrine, and reproductive systems.

ANAT 10B — Introductory Human Physiology

4 Units

Degree Applicable, CSU, UC

Degree Applicable, CSU, UC

Degree Applicable, CSU, UC

54 hours lecture

54 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 35 — Human Anatomy

5 Units

(CAN BIOL10)

CAN BIOL SEO B

54 hours lecture

108 hours lab

Advisory: BIOL 1, BIOL 4

1 Unit | 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.

ANAT 36 — Human Physiology

5 Units

(CAN BIOL12)

CAN BIOL SEQ B

54 hours lecture

108 hours lab

1 Unit | Prerequisite: ANAT 35, and CHEM 10 or CHEM 40

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.

ANAT 40 — Human Prosection

2 Units Degree Applicable, CSU

108 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

Degree Applicable

54 hours lecture

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 (CAN ANTHO2)

3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

The evolutionary biology of primates with particular emphasis on hominid evolution and behavior. The genetic and evolutionary mechanisms underlying evolution, human variation, primate field studies, and the hominid palentological record are stressed.

ANTH 1H — Biological Anthropology - Honors 3 Units (CAN ANTHO2) Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

The evolutionary biology of primates with particular emphasis on homonid evolution and behavior. The genetic and evolutionary mechanisms underlying evolution, human variation, primate field studies, and the hominid palentological record are stressed. This enriched course is designed for the honors program allowing, for example, more student 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 Degree Applicable, CSU, UC

54 hours lab

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

(CAN ANTHO6) Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 54 hours lecture

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. Topics include the evolution of culture from the earliest stone toolmakers to the primary civilizations of the Old and New Worlds, with emphasis on the invention and spread of agriculture and the impact of this change on prehistoric cultures.

ANTH 5 — Principles of Cultural Anthropology 3 Units (CAN ANTH04) Degree Applicable, CSU, UC

54 hours lecture

The anthropological approach to the study of human behavior from a cross cultural, comparative, and an evolutionary perspective. An exploration into the languages, economics, sociopolitical systems, religions, and world views of diverse world cultures. A technical presentation is stressed as this course is designed for Social Sciences majors.

ANTH 22 — General Cultural Anthropology

3 Units

Degree Applicable, CSU, UC

54 hours lecture

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 Degree Applicable, CSU, UC

Degree Appr

54 hours lecture

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

2 Units

Degree Applicable, CSU

(May be taken four times for credit)

36 hours lecture

To offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced.

ARABIC

ARAB 1 — Elementary Arabic

4 Units

Degree Applicable, CSU, UC

72 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 — Elementary Arabic Continued

4 Units

Degree Applicable, CSU, UC

4 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

ARCH 10 — Design I - Elements of Design

3 Units

Degree Applicable, CSU, UC

36 hours lecture

72 hours lab

Fundamentals of two- and three-dimensional design and design process. Elements include visualization, perception, presentation, expression, and site analysis of physical/contextual/cultural aspects of design and/or the urban environment. Portfolio will be produced.

ARCH 11 — Architectural Drawing

3 Units

Degree Applicable, CSU, UC

36 hours lecture

72 hours lab

Advisory: Eliaibility for MATH 51

Basic graphic and drawing techniques, including architectural graphics, building construction fundamentals, and methods of drawings considered prerequisite to architectural design.

COURSE DESCRIPTIONS

Course Descriptions

ARCH 12 — Architectural Materials and Specifications 3 Units

Degree Applicable, CSU

54 hours lecture

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

Degree Applicable, CSU, UC

36 hours lecture 72 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 Degree Applicable

54 hours lecture

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 Degree Applicable, CSU

36 hours lecture 72 hours lab

Advisory: ARCH 11, ARCH 12, ARCH 14, and eligibility for MATH 51 Methods and techniques used in the development of architectural construction documents for light frame structures (Type V construction) including construction theory, practice, and working drawings. Portfolio will be produced.

ARCH 16 — Basic CAD and Computer Application

4 Units Degree Applicable, CSU, UC

54 hours lecture 54 hours lab

Advisory: Eligibility for MATH 51

Basic CAD (Computer Aided Design and Drafting) and computer application in architecture, engineering and related fields (including basic word processing, spreadsheet, CAD and presentation applications).

ARCH 18 — Architectural Computer Aided Design 3 Units **Elements**

Degree Applicable

36 hours lecture 72 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.

ARCH 21 — Design II - Architectural Design

3 Units Degree Applicable, CSU

36 hours lecture 72 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

Degree Applicable, CSU, UC

36 hours lecture

72 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

36 hours lecture 72 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.

ARCH 27 — Design III - Environmental Design 3 Units Degree Applicable, CSU, UC

36 hours lecture

72 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

Degree Applicable, CSU

3 Units

36 hours lecture

72 hours lab

Advisory: ARCH 18 or equivalent experience

Intermediate to advanced architectural CAD in 3-D illustration, rendering and animation. Virtual "walk-through" and "fly-through" of interior/exterior 3-D models with photo-realistic materials and lighting will be produced.

ARCH 29 — Design IV - Advanced Project 3 Units

Degree Applicable, CSU

36 hours lecture 72 hours lab

Advisory: ARCH 23, ARCH 27 or equivalent experience

Advanced design seminars and complex building design projects in architecture, including portfolio development.

ARCH 31 — World Architecture I

3 Units

Degree Applicable, CSU

54 hours lecture

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

Degree Applicable, CSU

54 hours lecture

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 to 2 Units

Degree Applicable

(May be taken four times for credit) (May be taken for Pass/No Pass only)

3 Units | 75 to 150 hours lab

Degree Applicable | Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog

> This course is designed to provide actual on-the-iob 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

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Fundamentals of visual art forms and the role art plays in various historical periods and cultures. Students may not earn credit for both AHIS 1 and ARTB 1.

AHIS 1H — Understanding the Visual Arts - Honors 3 Units Degree Applicable, CSU, UC

54 hours lecture

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

Degree Applicable, CSU, UC

54 hours lecture

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

Degree Applicable, CSU, UC

54 hours lecture

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

Degree Applicable, CSU, UC

3 Units

54 hours lecture

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 3 Units Degree Applicable, CSU, UC

54 hours lecture

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 3 Units Through Gothic

(CAN ARTO2)

Degree Applicable, CSU, UC

CAN ART SEQ A

54 hours lecture

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: Prehistoric Through Gothic - Honors

Degree Applicable, CSU, UC

(CAN ARTO2) CAN ART SEO A

54 hours lecture

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: Renaissance 3 Units Through Modern

(CAN ARTO4)

Degree Applicable, CSU, UC

CAN ART SEQ A

54 hours lecture

Western art from the Renaissance through Modern periods, demonstrating the relationship of various visual art forms to each other and to the cultural context in which they were produced.

AHIS 5H — History of Western Art--Renaissance 3 Units Through Modern - Honors

(CAN ARTO4) CAN ART SEQ A Degree Applicable, CSU, UC

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54 hours lecture

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

Degree Applicable, CSU, UC

54 hours lecture

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 Degree Applicable, CSU, UC

54 hours lecture

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

Degree Applicable, CSU, UC

54 hours lecture

3 Units

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

Degree Applicable, CSU

3 Units

54 hours lecture

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

Degree Applicable, CSU, UC

54 hours lecture

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

Degree Applicable, CSU, UC

54 hours lecture

3 Units

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 Degree Applicable, CSU, UC

54 hours lecture

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

Degree Applicable, CSU

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 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

ARTC 60 — Graphic Design: Lettering and Typography 3 Units Degree Applicable, CSU, UC

36 hours lecture 72 hours lab

Prereauisite: Eliaibility 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

Degree Applicable

36 hours lecture

72 hours lab

Prerequisite: Completion of a minimum of 15 semester units in Advertising Design, Architectural Design, Art, Fashion Merchandising, Industrial Design, Interior Design or Photographics

This course aids individuals from any of the visual art disciplines to assemble a portfolio, book, or package of works of art (that represents their individual development, interests and/or strengths) for use to enter a four-year institution, professional art school, or a professional field of choice.

ARTC 70 — Computer Graphics: Introduction

3 Units

Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

72 hours lab

Introduces basic art, design and color theory principles to the application of 2-dimensional computer graphics. Explores basic computer concepts applied to graphic projects utilizing professional imaging software programs. Introduces the use of color scanner, digitized artist tablet, laser and color printers. Software: Adobe Photoshop, Adobe Illustrator.

ARTC 74 — Computer Graphics: Web Design

3 Units

Degree Applicable, CSU

36 hours lecture 72 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.

ARTC 77 — Computer Graphics: Exploring Digital Illustration

3 Units

Degree Applicable

36 hours lecture

72 hours lab

Prerequisite: ARTC 70

Advisory: ARTC 165 or ARTD 15A or ANIM 104

Basic principles of art, design and color. Theory as applied to digital hand illustration will be explored and original illustrations created through use of professional illustration software.

ARTC 78A — Work Experience in Design/Illustration

1 to 3 UnitsAdvertising

Degree Applicable

(May be taken four times for credit)
(May be taken for Pass/No Pass only)

75 to 225 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 161 — Graphic Design:Layout

3 Units

Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

72 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

Degree Applicable, CSU

36 hours lecture

72 hours lab

Corequisite: ARTD 20 or ARTD 15A or ARTD 17A or ANIM 104 (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.

ARTC 171 — Computer Graphics 2: Advanced Layout and Design

3 Units

Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

72 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.

ARTC 172 — Computer Graphics - Multimedia

3 Units

Degree Applicable

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

72 hours lab

Prerequisite: ARTC 70

An introduction to multimedia design and basic animation using Macromedia Director. Introduces text and sound editing, image manipulation, and interactive design principles in the preparation of presentations, animations, and informational kiosks. Emphasis is placed on clarity of communication, design, and technical skills.

ART: ANIMATION

ANIM 101 — Drawing - Gesture and Figure

3 Units Degree Applicable, CSU

(May be taken four times for credit)

(May be taken four th

36 hours lecture

72 hours lab

Explores contemporary and traditional approaches to sketching basic objects and the human figure using drawing techniques for rapid visualization. Emphasizes and develops perceptual and technical skills for capturing basic visual mechanics of motion and gesture. Students who repeat this course will improve skills through further instruction and practice.

ANIM 104 — Drawing Fundamentals

3 Units

Degree Applicable, CSU

36 hours lecture

72 hours lab

Emphasizes creative expression through the use of drawing media and techniques. Emphasis is placed on use of light logic, atmospheric and linear perspective. Includes basic drawing skills and methods of achieving compositional integrity through objective analysis and synthesis.

ANIM 107 — Figure in Motion

3 Units Degree Applicable

(May be taken four times for credit)

36 hours lecture

72 hours lab

Prereauisite: 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

Degree Applicable, CSU

36 hours lecture

72 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.

ANIM 109 — Advanced Principles of Animation

3 Units

Degree Applicable

36 hours lecture

72 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.

ANIM 111 — Animal Drawing

1.5 Units Degree Applicable

(May be taken two times for credit)

18 hours lecture

36 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

Degree Applicable

36 hours lecture

72 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.

ANIM 116 — Character Development

1.5 Units

Degree Applicable

18 hours lecture

36 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.

ANIM 117 — Animation Background Layout

3 Units

Degree Applicable, CSU

36 hours lecture

72 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.

ANIM 118 — Background Painting

3 Units

Degree Applicable

36 hours lecture

72 hours lab

Analysis and production of environments for scenes in animation. Emphasis on the study of light logic and color as they pertain to the creation of atmosphere, mood and environments.

ANIM 119 — Portfolio

1.5 Units Degree Applicable

18 hours lecture

36 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.

ANIM 120 — Script Development for Animation

3 Units

Degree Applicable

54 hours lecture

Creative and problem solving processes as applied to story and script development. Scripts screenplays, live action and animated film, and the practical application of story adaptation to screenplay.

ANIM 130 — Introduction to 3-D Computer Animation

Degree Applicable

3 Units

36 hours lecture

72 hours lab

Explores 3-D computer animation interfaces, use of polygons, perspective views, contouring, links, external processors for special computer effects, and using the Alias MAYA software. 3-D modeling, rendering, and animation of primitive and complex poly-spline meshes used in environments, and following a story board developed for scene sequencing are included.

ANIM 132 — Modeling, Texture Mapping and Lighting 3 Units

Degree Applicable

36 hours lecture

72 hours lab

Advisorv: 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.

ANIM 134 — Visual Effects I: Dynamics

1.5 Units

Degree Applicable

18 hours lecture

36 hours lab

Advisory: ANIM 132

Advanced course exploring the animation techniques called dynamics. Covers building material for 3-D objects using bitmaps to create texture maps and using light effects in 3-D computer environments.

ANIM 135 — Visual Effects II: Particle Systems

1.5 Units Degree Applicable

18 hours lecture

36 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.

ANIM 136 — Animation Environment Layout

3 Units

Degree Applicable

36 hours lecture

72 hours lab

Advisory: ANIM 132

Create an environment project; design, model, texture, and light an environment for a computer graphics game or film.

1 to 3 Units ANIM 137A — Work Experience in New Digital Media Degree Applicable

(May be taken four times for credit) (May be taken for Pass/No Pass only)

75 to 225 hours lab

Advisory: Completion of the first and second semester of the Animation Program

This course is designed to provide actual on-the-iob experience in Animation 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.

ANIM 145 — Advanced 3-D Modeling

3 Units

Degree Applicable

36 hours lecture

72 hours lab

Advisory: ANIM 132

An advanced course in 3-D modeling with a focus on designing, modeling, and rigging a character for animation.

ANIM 146 — Advanced 3-D Animation

3 Units

Degree Applicable

36 hours lecture

72 hours lab

Advisory: ANIM 132

Animation of a pre-selected 3-D dynamic environment project and development of characteristics and personality of 3-D characters through animation.

ANIM 148 — Demo-Reel

1.5 Units

Degree Applicable

(May be taken four times for credit)

18 hours lecture

36 hours lab

Prerequisite: ANIM 130

Production of a demo-reel representative of student interest, strength and skill for entry into animation fields, professional schools or baccalaureate institutions. Students who repeat this course will improve skills through further instruction and practice.

ANIM 172 — Motion Graphics With After Effects

3 Units

Degree Applicable

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

72 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.

ANIM 175 — Web Animation With Flash

3 Units

Degree Applicable | 72 hours lab

36 hours lecture

72 hours lab

Prerequisite: ARTC 70

Principles and design considerations of animation for the Web will be explored and developed through use of professional Web animation software.

ART: BASIC STUDIO ARTS

ARTB 1 — Understanding the Visual Arts

3 Units

Degree Applicable, CSU, UC

54 hours lecture

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

Degree Applicable, CSU, UC

36 hours lecture

72 hours lab

Prereauisite: Eliaibility 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 AND PROFESSIONAL PRACTICES

ARTG 20 — Art, Artists and Society

3 Units

Degree Applicable, CSU

36 hours lecture

72 hours lab

Explores art as a creative process and the role of an artist in contemporary and past societies approached through analysis of art exhibitions and artist 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

Degree Applicable, CSU

3 Units

36 hours lecture

72 hours lab

Prereauisite: 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.

ARTG 21B — Intermediate Exhibition Production

3 Units Degree Applicable, CSU

36 hours lecture

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.

ARTG 22A — Exhibition Design and Art Gallery **Operation Work Experience**

1 to 2 Units

Degree Applicable

(May be taken four times for credit)

75 to 150 hours lab

Prerequisite: ARTG 20, ARTG 21A, ARTG 21B

Provides on-the-job experience in exhibition design and art gallery operation in an approved work site which is related to classroom-based learning. A minimum of 75 paid clock hours or 60 non-paid clock hours 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

Degree Applicable, CSU, UC

(May be taken four times for credit)

18 hours lecture

54 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 (CAN ART16) 3 Units Degree Applicable, CSU, UC

36 hours lecture 72 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

3 Units Degree Applicable, CSU, UC

36 hours lecture 72 hours lab

Introduction to clay, glaze and firing through projects that employ techniques in hand building and on the wheel. Emphasis is on developing skills, vocabulary and analysis of form, function and aesthetics through projects and oral and written criticism.

ARTS 30B — Ceramics: Beginning

3 Units

Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

72 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 Degree Applicable, CSU, UC

36 hours lecture

72 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

Degree Applicable, CSU, UC

36 hours lecture 72 hours lab

Prerequisite: 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

Degree Applicable, CSU, UC

36 hours lecture

72 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 Degree Applicable, CSU, UC

(CAN ART12) 36 hours lecture

72 hours lab

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 Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

72 hours lab

Prerequisite: ARTS 40A

Advanced projects in subtractive, additive and manipulative approaches are explored. Students who repeat this course will improve skills by further instruction and practice.

ARTS 41A — Sculpture: Life

3 Units

Degree Applicable, CSU, UC

36 hours lecture

72 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

Degree Applicable, CSU, UC

(May be taken four times for credit)

36 hours lecture

72 hours lab

Prerequisite: 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

Degree Applicable

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

72 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

Degree Applicable

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

72 hours lab

Advisory: ARTS 41 and/or ARTS 42

Modeling, molding, casting and application of special effects makeup appliances and masks to the human figure. Emphasis on human 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

3 Units

(CAN ARTO8) Degree Applicable, CSU, UC

36 hours lecture

72 hours lab

An entry level course emphasizing creative expression through the use of drawing media. Emphasis is placed on basic drawing methods and skills, composition and exploration of drawing media.

ARTD 15B — Drawing: Beginning

3 Units

Degree Applicable, CSU, UC

36 hours lecture

72 hours lab

Prereauisite: 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

Degree Applicable, CSU, UC

36 hours lecture

72 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.

Course Descriptions

ARTD 17A — Drawing: Life

3 Units

Degree Applicable, CSU, UC

(CAN ART24) 36 hours lecture

72 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

Degree Applicable, CSU, UC

36 hours lecture

72 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

3 Units

Degree Applicable, CSU, UC

36 hours lecture

72 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.

ARTD 21 — Design: Color and Composition

3 Units

(CAN ART22)

Degree Applicable, CSU, UC

Degree Applicable, CSU, UC

36 hours lecture

72 hours lab

Prerequisite: ARTD 20 or equivalency determined by a portfolio review Synthesizes color theory and relationships of pigment and light. Emphasis will be placed on fundamental color harmonies, color matching, the effects of light, color perception and expression in their application to design and composition and as they are used in all other disciplines of the arts.

ARTD 23A — Drawing: Head and Hands

1.5 Units

(May be taken two times for credit)

18 hours lecture

36 hours lab

Prereauisite: 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

ARTD 25B — Painting: Beginning

(CAN ART10)

72 hours lab

36 hours lecture

36 hours lecture

Prereauisite: ARTD 25A

individual expression.

72 hours lab

3 Units | ARTD 43 — Introduction to Printmaking

Degree Applicable, CSU, UC

3 Units

3 Units

(CAN ART20)

3 Units Degree Applicable, CSU, UC

(May be taken four times for credit)

36 hours lecture

72 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.

3 Units

Degree Applicable, CSU, UC

(CAN ART20) 36 hours lecture

72 hours lab

Prerequisite: 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.

Degree Applicable, CSU, UC

Degree Applicable, CSU, UC

36 hours lecture 72 hours lab

Prerequisite: ARTD 25B

Develop a working knowledge of painting media. Painting problems are studied in order to broaden the student's knowledge of painting organization.

An extension and expansion of principles and techniques introduced in

ARTD 25A. More emphasis is placed on personal approach and

Emphasizes creative self-expression through the painting media.

Students will develop the ability to conceptualize and solve

compositional and technical painting problems.

ARTD 26B — Painting: Intermediate

ARTD 26A — Painting: Intermediate

3 Units

Degree Applicable, CSU, UC

36 hours lecture 72 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

Degree Applicable, CSU, UC

(May be taken two times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

72 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 45 — Printmaking: Collagraph/Monotype/ Silkscreen

ARTD 44 — Printmaking: Relief and Lithography

Degree Applicable, CSU, UC

3 Units

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

72 hours lab

Prerequisite: 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.

ASTRONOMY

ASTR 5 — Introduction to Astronomy

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility 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 5H — Introduction to Astronomy - Honors

3 Units Degree Applicable, CSU

54 hours lecture

Prerequisite: Eligibility for ENGL 1A; acceptance into Honors

An honors course designed to provide an enriched experience. A nontechnical 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. Students may not receive credit for both ASTR 5H and ASTR 5.

ASTR 5L — Astronomical Observing Laboratory

1 Unit Degree Applicable, CSU, UC

54 hours lab

Coreauisite: ASTR 5 or ASTR 7 or ASTR 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

Degree Applicable, CSU

54 hours lecture

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

Degree Applicable, CSU

54 hours lecture

Introduction to astronomy with emphasis on the structure and evolution of stars, galaxies, and the universe. Field trips required.

ASTR 99 — Special Projects in Astronomy

2 Units

3 Units

Degree Applicable, CSU

(May be taken four times for credit)

36 hours lecture

In order to offer selected students recognition for their academic interests and ability, and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special 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

BIOL 1 — General Biology

4 Units

Degree Applicable, CSU, UC

54 hours lecture

54 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

Degree Applicable, CSU, UC

54 hours lecture 54 hours lab

Prereauisite: BIOL 1 or BIOL 4: and Math 71

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 Applicable, CSU, UC

54 hours lecture

54 hours lab

Identification and ecological relationships of common local plants and animals. Emphasizes evolutionary relationships: ecology including animal behavior, communities, ecosystems, wilderness and wildlife preservation, and population dynamics. Techniques of collecting and preserving. Many laboratory meetings conducted off campus: most trips require walking/ hiking. Includes one weekend or all day field trip.

BIOL 4 — Biology for Majors

4 Units

(CAN BIOLO2)

Degree Applicable, CSU, UC

54 hours lecture

72 hours lab

Prerequisite: CHEM 10 or CHEM 40, and MATH 71

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

4 Units

(CAN BIOLO2) Degree Applicable, CSU, UC

54 hours lecture

72 hours lab

Prerequisite: Acceptance into the Honors Program, CHEM 10, and MATH 71 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 Applicable, CSU, UC

54 hours lecture

Provides an overview of contemporary health issues known 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

Degree Applicable, CSU, UC

54 hours lecture

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 Degree Applicable, CSU, UC

108 hours lab

Corequisite: 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

Degree Applicable, CSU, UC

54 hours lecture 54 hours lab

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

Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass) 36 hours lecture

54 hours lab

Field study of the natural history of the Sierra Nevada and adjacent regions. One 3 day and one 4 day weekend field trip will be required. Students may not receive credit for both BIOL 12A and GEOL 12A.

BIOL 12B — Natural History of California

3 Units

Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture 54 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 GFOL 12B.

BIOL 13 — Human Reproduction, Development and Aging 3 Units Degree Applicable, CSU, UC

54 hours lecture

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

Degree Applicable, CSU, UC

54 hours lecture

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

3 Units

Degree Applicable, CSU, UC

54 hours lecture

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

BIOL 17 — Neurobiology and Behavior

3 Units

Degree Applicable, CSU, UC

54 hours lecture

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 trips may be required.

BIOL 20 — Marine Biology

3 Units

Degree Applicable, CSU, UC

54 hours lecture

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

Degree Applicable, CSU, UC

54 hours lab

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 34 — Fundamentals of Genetics

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prereauisite: BIOL 4

Explores theory and applications of genetics. Major topics include Mendelian and molecular genetics, mechanisms of inheritance, gene expression, linkage and chromosome mapping, mutations and evolution, population genetics, and ethical and moral implications of DNA technology.

BIOL 50 — Biology Basic Skills

.5 Unit

Not Degree Applicable

(May be taken for Pass/No Pass only)

9 hours lecture

Basic skills needed for students to succeed in biological science classes. Topics include a contrast of the academic demands of science to nonscience disciplines, preparation for biological laboratory experiences as well as lectures, development of personal study plan to manage the large volume of information, interpretation of biological graphs and diagrams, introduction to common Latin and Greek words to build vocabulary, use of memorization techniques, application of test-taking strategies for biological exams, especially lab practica, and analysis of test results. These techniques and strategies will be discussed using biological concepts and vocabularies as examples. Recommended to be taken concurrently with any biological science class.

BIOL 99A — Special Projects in Biology

1 to 2 Units

Degree Applicable, CSU

(May be taken four times for credit)

18 to 36 hours lecture

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 (CAN BIOLO6) Degree Applicable, CSU, UC

54 hours lecture

108 hours lab

Advisory: BIOL 1 or BIOL 4 and Eligibility for ENGL 1A

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

BUSA 7 — Principles of Accounting - Financial

(CAN BUS02)

Degree Applicable, CSU, UC

5 Units

CAN BUS SEO A 90 hours lecture

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

(CAN BUS04) Degree Applicable, CSU, UC

CAN BUS SEO A

90 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 Degree Applicable

54 hours lecture

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 Applicable

72 hours lecture 18 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

Degree Applicable

54 hours lecture 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

Degree Applicable

18 hours lecture 54 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

Degree Applicable

54 hours lecture

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

Not Degree Applicable

54 hours lecture

Reviews addition, subtraction, multiplication, division, decimals, percentages, fractions, sign numbers, equations and problem solving.

BUSA 70 — Payroll and Tax Accounting

3 Units Degree Applicable

54 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

3 Units

Degree Applicable, CSU

54 hours lecture

Functional approach to personal finance, including budget systems, consumer credit, health care and insurance, debt collection systems, status obligation, accumulating reserves. Examines short-term and long-term financial goals. Applicable for personal and professional use. Students may not earn credit for both BUSA 71 and FCS 80.

BUSA 72 — Bookkeeping - Accounting

5 Units Degree Applicable

locture

90 hours lecture

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.

BUSA 75 — Using Microcomputers in Financial Accounting

Degree Applicable

1 Unit

18 hours lecture

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

Degree Applicable

1 Unit

18 hours lecture

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 to 4 Units

Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

75 to 300 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 ECONO2) Degree Applicable, CSU, UC

54 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 ECONO2)

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

Principles of aggregate economic analysis; economic cycles including recession, unemployment, inflation and economic growth; national income accounts; money and financial institutions; monetary and fiscal policy; alternative economic viewpoint; budget deficits and public debts; international trade and finance. An honors course designed to provide an enriched experience. Students may not receive credit for both BUSC 1AH.

BUSC 1B — Principles of Economics - Microeconomics (CAN ECONO4) Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: BUSC 1A or BUSC 1AH

Economic analysis with emphasis on price and distribution theory, scarcity, opportunity costs, supply, demand, elasticity; cost theory; price and output determination under various market structures; factor markets; public choice; income distribution; externalities and government regulation; comparative economic systems.

BUSC 1BH — Principles of Economics - Microeconomics - Honors 3 Units

(CAN ECONO4)

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: BUSC 1A or BUSC 1AH

Economic analysis with emphasis on price and distribution theory, scarcity, opportunity costs, supply, demand, elasticity; cost theory; price and output determination under various market structures; factor markets; public choice, income distribution, externalities and government 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 Applicable, CSU, UC

54 hours lecture

Prerequisite: MATH 71

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

BUSL 18 — Business Law

3 Units

(CAN BUS08)

Degree Applicable, CSU, UC

54 hours lecture

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

(CAN BUS08)

Degree Applicable, CSU, UC

54 hours lecture

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

Degree Applicable, CSU, UC | A hands-on o

54 hours lecture Advisory: 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 Degree Applicable

54 hours lecture

Advisory: Eligibility for ENGL 68

A comparative approach to the study of the international legal environment for business. Cultural, political, economic and ethical issues are emphasized as well as traditional business law subjects such as sales, commercial paper, corporate law, agency, licensing, employment, crimes, trade regulation and technology transfers.

BUSINESS: MANAGEMENT

BUSM 10 — Principles of Continuous Quality Improvement

Degree Applicable

3 Units

54 hours lecture

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 Applicable

(May be taken for option of letter grade or Pass/No Pass) 54 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

Degree Applicable, CSU, UC

54 hours lecture

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 Applicable

54 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

tive 3 Units Degree Applicable, CSU

54 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 Applicable, CSU

54 hours lecture

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

3 Units

Degree Applicable, CSU

54 hours lecture

Advisory: Eligibility 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

3 Units

Degree Applicable, CSU

54 hours lecture

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.

BUSM 61 — Business Organization and Management 3 Units

Degree Applicable, CSU

54 hours lecture

Advisory: BUSM 20

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

Degree Applicable

54 hours lecture

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

Degree Applicable, CSU

54 hours lab

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 for Pass/No Pass only)

1 to 4 Units Degree Applicable

(May be taken four times for credit)

75 to 300 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 85 — Special Issues in Business

2 Units

Degree Applicable

(May be taken two times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 hours lecture

Provide business majors with a forum to gain knowledge, develop techniques, problem solve and implement an actual business plan. Special emphasis will be placed on the particular project of the actual business used as the class project. Students who repeat this course will improve skills through further instruction and practice.

BUSINESS: OFFICE TECHNOLOGY

BUSO 5 — Business English

3 Units

Degree Applicable

54 hours lecture

Prereauisite: Eliaibility for ENGL 68

Thorough training in the skills and techniques of English, as applied to business situations, with emphasis on effective paragraphs and memos.

BUSO 25 — Business Communications

3 Units

Degree Applicable, CSU

54 hours lecture 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 Applicable

(May be taken for option of letter grade or Pass/No Pass) 54 hours lecture

Designed to help business people communicate more effectively in spoken communication situations such as training sessions, presentations, and professional discussions.

BUSO 96A — Business Vocabulary

1.5 Units

Degree Applicable

(May be taken for option of letter grade or Pass/No Pass) 27 hours lecture

Develops a broad word command of new and specialized business vocabulary for use in various businesses. Improves vocabulary to enhance written and oral communication

BUSINESS: PARALEGAL

PLGL 30 — Introduction to Paralegal/Legal

3 Units

Degree Applicable, CSU

54 hours lecture

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

Degree Applicable, CSU

54 hours lecture

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

ng 3 Units Degree Applicable, CSU

54 hours lecture

Prerequisite: 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

Degree Applicable, CSU

54 hours lecture

Corequisite: 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

Degree Applicable, CSU

54 hours lecture

Prerequisite: 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

Degree Applicable, CSU

54 hours lecture Advisory: PLGL 30

Examines procedures utilized by a paralegal in a law office. Includes knowledge of court systems, preparation and filing of legal papers and court documents, and drafting specialized documents in such areas as estate planning, real estate, divorce, unlawful detainer, adoption, corporations, conservatorships and quardianships.

PLGL 35B — Automated Law Office Procedures

3 Units

Degree Applicable

54 hours lecture 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

1 Unit

Degree Applicable

(May be taken four times for credit)
(May be taken for Pass/No Pass only)

75 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

3 Units

Degree Applicable, CSU

54 hours lecture

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 | PLO

Degree Applicable | 54

36 hours lecture

Prerequisite: PLGL 31A, PLGL 33A, and PLGL 35A

Corequisite: PLGL 31B, PLGL 33B, PLGL 35B, PLGL 37, PLGL 39 (may have been taken previously)

Job search skills including preparation of professional 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

Degree Applicable, CSU

54 hours lecture

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

Degree Applicable, CSU

54 hours lecture

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

Degree Applicable, CSU

54 hours lecture

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

Degree Applicable, CSU

54 hours lecture

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

Degree Applicable, CSU

54 hours lecture

Legal principles of the laws of wills and trusts, organization and jurisdiction of the California Probate Courts, estate planning and estate taxes.

PLGL 44 — Bankruptcy Law

3 Units

Degree Applicable, CSU

54 hours lecture

Creation, scope, and administrative function of federal bankruptcy proceedings and arrangements. Includes wage earner plans and insolvency proceedings.

PLGL 45 — Creditors' Rights

3 Units Degree Applicable, CSU

54 hours lecture

Creation, perfection, and enforcement of security interests in property. Unsecured creditors and their methods of enforcing rights and obtaining judgments.

PLGL 47A — Litigation Procedures

3 Units

Degree Applicable

54 hours lecture

Overview of litigation procedures. Description of a trial and trial presentations are emphasized. Preparation of opening statements, direct and cross examinations, and closing statements. Elements of oral argument are examined. Methods of responding to questioning are analyzed.

PLGL 47B — Litigation Practice

1.5 Units

Degree Applicable

27 hours lecture

Students will present a case and evaluate the effectiveness of their presentation. Continuous revision of opening arguments, closing arguments. direct examinations. and cross-examinations.

PLGL 48 — Criminal Law and Procedures

3 Units

Degree Applicable, CSU

54 hours lecture

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

Degree Applicable, CSU

54 hours lecture

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

Degree Applicable

54 hours lecture

Advisory: Eligibility for ENGL 1A

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 Applicable, CSU

54 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

3 Units Degree Applicable

54 hours lecture

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

Degree Applicable

54 hours lecture

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. A course in real estate practice must be completed within 18 months of licensure.

BUSR 52D — Real Estate Practice Work Experience

3 Units

Degree Applicable

(May be taken four times for credit)

225 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

Degree Applicable

54 hours lecture

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

Degree Applicable

54 hours lecture

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 Unit

Degree Applicable

54 hours lecture

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

Degree Applicable

54 hours lecture

Prereauisite: BUSR 50

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

Not Degree Applicable

54 hours lecture

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
Degree Applicable

54 hours lecture

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
Degree Applicable

54 hours lecture

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 Degree Applicable

54 hours lecture

Prerequisite: 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: Priniciples and Procedures

es 3.5 Units Not Degree Applicable

63 hours lecture

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 — USPAP

1 Unit

Not Degree Applicable

18 hours lecture

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

Not Degree Applicable

63 hours lecture

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 UnitsNot Degree Applicable

45 hours lecture

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 Qualifications Board (AQB) Modules: Residential Report Writing and Case Studies; Statistics, Modeling, and Finance; and Advanced Residential Applications and Case Studies.

BUSINESS: SALES, MERCHANDISING, AND MARKETING

BUSS 33 — Advertising and Promotion

3 Units

Degree Applicable, CSU

54 hours lecture

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 Degree Applicable, CSU

54 hours lecture

Prerequisite: Eligibility 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

Degree Applicable, CSU

54 hours lecture

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 Degree Applicable, CSU

54 hours lecture

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 to 4 UnitsDegree Applicable

(May be taken four times for credit)
(May be taken for Pass/No Pass only)

75 to 300 hours lab

Prerequisite: BUSS 33 or BUSS 35 or BUSS 36 or BUSS 50 and compliance with Work Experience regulations as designated in the College Catalog Provides marketing students with actual on-the-job experience in an 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 85 — Special Issues in Marketing

2 Units

Degree Applicable

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

Prerequisite: BUSS 33 or BUSS 35 or BUSS 36 or BUSS 50

Provides marketing majors with a forum to gain knowledge, develop techniques, problem solve, and implement an actual business marketing plan. Special emphasis will be placed on the particular project of the actual business used as the class project. Students who repeat this course will improve skills through further instruction and practice.

CHEMICAL TECHNOLOGY

CHMT 1 — Introduction to Chemical Laboratory Technology

3 Unit

Degree Applicable

36 hours lecture 54 hours lab Prereauisite: CHEM 10

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 Applicable, CSU

36 hours lecture Prereauisite: 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 to 2 Units Degree Applicable

(May be taken four times for credit) (May be taken for Pass/No Pass only)

75 to 150 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

(CAN CHEM06)

Degree Applicable, CSU, UC

4 Units

54 hours lecture

72 hours lab

Prerequisite: Eligibility for MATH 71

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 CHEM08) Degree Applicable, CSU, UC

CAN CHEM SEO B

54 hours lecture

108 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

(CAN CHEM06) Degree Applicable, CSU, UC

CAN CHEM SEO B

54 hours lecture

72 hours lab

Prerequisite: Eligibility for MATH 71 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 CHEM02) CAN CHEM SEQ A 54 hours lecture

108 hours lab

Prerequisite: (CHEM 40 or satisfactory score on Chemistry Placement Examination) and (MATH 71, 71B or 71X or equivalent)

Topics in general chemistry such as scientific method, measurements, nomenclature, formulas and equations, reaction patterns, stoichiometry, thermodynamic processes, periodic trends, atomic structure, molecular bonding and geometry, properties of gases, liquids, solids and solutions. Emphasis is on critical thinking and mathematical problem-solving using dimensional analysis. Hands-on laboratory experiments use computer and calculator-based technologies in data acquisition and analysis. Introduces techniques of scientific writing.

CHEM 50H — General Chemistry I - Honors

5 Units

Degree Applicable, CSU, UC

54 hours lecture

108 hours lab

Prerequisite: Acceptance into the Honors Program. Also (CHEM 40 or satisfactory score on the Chemistry Placement Exam) and (MATH 71. 71B or 71X or equivalent)

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

5 Units

Degree Applicable, CSU, UC

(CAN CHEM04) CAN CHEM SEO A

54 hours lecture

108 hours lab

Prereauisite: CHEM 50 or CHEM 50H

4 Units 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

5 Units

Degree Applicable, CSU, UC

54 hours lecture

108 hours lab

5 Units | Prerequisite: CHEM 51

Degree Applicable, CSU, UC | 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 Applicable

54 hours lecture 108 hours lab

Prerequisite: CHEM 51

Introduction to a variety of instruments used in chemical industries. Includes theory, hands-on experience and basic maintenance of chemical instrumentation.

CHEM 80 — Organic Chemistry

5 Units Degree Applicable, CSU, UC

54 hours lecture 108 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 Applicable, CSU, UC

54 hours lecture 108 hours lab Prereauisite: 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 Degree Applicable, CSU

(May be taken four times for credit)

36 hours lecture

In order to offer students the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester, and depend on the particular project under consideration. Students must have an instructor's authorization 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 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

Child development is presented as the interaction and collaboration between children, parents, family, school and community. Studies of family systems in contemporary society as they impact children and their individual heritage, diverse culture, ability and language. Explores the value of communication, the development of child advocacy skills and the ability to use community resources to empower families and children.

CHLD 5 — Principles/Practices in Child **Development Programs**

Degree Applicable, CSU

3 Units

54 hours lecture

Overview of early child development programs: their histories, philosophies and emphasis; methods of guidance and discipline, licensing and regulations for state, federal and private programs. Reviews philosophies of educating young children and learning, while examining developmentally appropriate practices, including the influence of culture and inclusive environments on the developing child. Explores career paths, professional growth, and ethics, Student assignments involve ten hours outside of class time observation and participation in children's programs.

CHLD 6 — Survey of Child Development Curriculum 3 Units Degree Applicable, CSU

54 hours lecture

Prereauisite: 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 (CAN FCS14) Degree Applicable, CSU, UC

54 hours lecture

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 (CAN FCS14) Degree Applicable, CSU, UC

54 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**

Degree Applicable

3 Units

54 hours lecture 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

Degree Applicable, CSU

54 hours lecture Advisory: 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

CHLD 61 — Language Arts and Art Media for Young Children

are reviewed. TB test/observations required.

Degree Applicable

3 Units

54 hours lecture

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

Degree Applicable, CSU

54 hours lecture

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

Degree Applicable

3 Units

54 hours lecture

Advisory: Eligibility for ENGL 68

Exploration of children's thinking processes and problem solving abilities as they become aware of the physical world. Discussion, planning, and creating basic science and math experiences. Emphasizes creative aspects of math and science.

CHLD 64 — Health, Safety and Nutrition of Young Children

3 Units

Degree Applicable, CSU

54 hours lecture

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 Applicable, CSU

54 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

Degree Applicable, CSU

54 hours lab

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 Degree Applicable, CSU

36 hours lecture

Prereauisite: CHLD 6 and CHLD 66

Corequisite: CHLD 671

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**

Degree Applicable, CSU

63 hours lab Coreauisite: CHLD 67

Teaching experiences in the preschool children's classroom related to creating environment, managing program, preparing materials, planning and carrying out activities for individual children and groups of children.

CHLD 68 — Children With Special Needs

3 Units

1 Unit

Degree Applicable, CSU

54 hours lecture

Prereauisite: 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**

Degree Applicable, CSU 54 hours lecture

2 Units

36 hours lecture

Prereauisite: CHLD 67, CHLD 67L

Corequisite: CHLD 91

Selected topics pertinent to problems of students placed in community sites. Topics include philosophical orientation, curriculum, parent involvement, staff relations, professionalism and professional growth, and will involve study, discussion and research.

CHLD 71A — Administration of Child Development 3 Units **Programs**

Degree Applicable, CSU

54 hours lecture

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 for 3 Units **ECD Programs**

Degree Applicable

54 hours lecture Prerequisite: CHLD 71A

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 hours lecture Degree Applicable 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 Degree Applicable, CSU

54 hours lecture

Advisory: CHLD 10 or CHLD 10H

Caregivers and parents learn developmentally appropriate practices for infants and toddlers applicable to families and group care, environmental planning, and developing relationships between diverse families and staff. Student assignments involve up to ten hours of observations and participation with infants and toddlers outside of class time.

CHLD 74 — Program Planning for the School Age Child 3 Units Degree Applicable

Advisorv: 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

Degree Applicable

36 hours lecture

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

Degree Applicable

(May be taken two times for credit)

(May be taken for option of letter grade or Pass/No Pass)

18 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

Degree Applicable

(May be taken for option of letter grade or Pass/No Pass)

18 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 Degree Applicable

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

18 hours lecture

3 Units | 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 in Child **Development Settings**

1 Unit

Degree Applicable, CSU

18 hours lecture 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

54 hours lecture

Prereauisite: 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

1 Unit Degree Applicable, CSU

(May be taken for Pass/No Pass only)

75 hours lab

Prerequisite: CHLD 67 and CHLD 67L

Coreauisite: CHLD 69

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 Degree Applicable

54 hours lecture

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

4 Units

(CAN CHINO2) Degree Applicable, CSU, UC

CAN CHIN SEO A

72 hours lecture

Intended for students without previous exposure to Chinese. Begins to develop the ability to converse, read, and write in Mandarin Chinese. 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 CHINO4) Degree Applicable, CSU, UC

CAN CHIN SFO A

72 hours lecture

Prerequisite: CHIN 1 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

4 Units

Degree Applicable, CSU, UC

(CAN CHINO8) Degree Applicable | 72 hours lecture

Prerequisite: CHIN 2 or equivalent

Further development of Mandarin Chinese language skills and their use as tools in exploring Chinese civilization. Further study and review of grammar, exercises in word building, derivation, and the extension of the active and recognition vocabularies.

CHIN 4 — Continuing Intermediate Chinese

4 Units

Degree Applicable, CSU, UC

72 hours lecture

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.

COMPUTER APPLICATIONS

COMP 1 — Computer Keyboarding

4 Units

Degree Applicable, CSU

54 hours lecture

54 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 Applicable, CSU (May be taken for option of letter grade or Pass/No Pass)

27 hours lecture

27 hours lab

Develops basic alpha/numeric keyboarding with skills on a personal computer; develops a straight-copy rate of 25 to 30 gross words a minute with a predetermined error limit.

COMP 1B — Computer Keyboarding

2 Units

Degree Applicable, CSU

27 hours lecture

27 hours lab

Advisory: COMP 1A or BUSO 1A, or ability to type 20 wam with test verification at first class meetina

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 Applicable

54 hours lecture

54 hours lab

Prerequisite: COMP 1 or COMP 1B or BUSO 1 or BUSO 1B, or one year of hiah school keyboardina

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 Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass) 27 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 Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

27 hours lecture

27 hours lab

Advisory: COMP 10 or CISB 13

Practical hands-on instruction using the Internet for research in a business environment. Master Internet-specific research techniques, discover timesaving tips for locating and managing information, and use the entire Internet, newsgroups, FTP (File Transfer Protocol) and mailing lists.

COMP 12 — Office Computer Applications

4 Units

Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass)

54 hours lecture

54 hours lab

In depth study of computer applications utilized in the office environment. Includes extensive hands-on instruction in word processing, spreadsheet, data management, and business graphics. Intended for the student who needs to upgrade or acquire office computer skills.

COMP 13 — Using Web Page Software

4 Units

Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

54 hours lecture

54 hours lab

Advisory: COMP 10 or COMP 12 or CISB 13 or CISB 15

Using industry leading Web page authoring software to plan, develop, and publish effective professional Web sites. Includes working with text and graphics; creating hyperlinks; creating tables and layers; collecting data with forms; adding multimedia objects; creating and applying cascading style sheets; creating interactions and behaviors; publishing a Web site.

COMP 18 — Data Entry

3 Units

Degree Applicable

54 hours lecture

Advisory: Ability to type 25 wam with test verification at first class meeting

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.

COMP 20 — Word for the Business Professional

4 Units

Degree Applicable

(May be taken for option of letter grade or Pass/No Pass)

54 hours lecture

54 hours lab

Advisory: COMP 10 or CISB 13 and ability to type 25 wpm 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.

COMP 28 — Office Management Skills

3 Units Degree Applicable

54 hours lecture

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

Degree Applicable, CSU

54 hours lecture 54 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.

COMP 60 — Business Publications Using Desktop Publishing Software

Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

54 hours lecture

54 hours lab

Using desktop publishing software, integrate text and graphics to design, edit, and produce high-quality business publications.

COMP 68 — Transcription Techniques

3 Units

4 Units

Degree Applicable

(May be taken for option of letter grade or Pass/No Pass)

54 hours lecture

Develops the language competencies and formatting knowledge required to produce acceptable business documents; emphasizes punctuation, number usage, proofreading, spelling and word division; and reinforces through a series of sentence applications, paragraphs and business documents.

COMP 150 — Basic PowerPoint

1 Unit

Degree Applicable

(May be taken for Pass/No Pass only)

18 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 Degree Applicable

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

54 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 Degree Applicable

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

54 hours lab

Advisory: COMP 10 or PHOT 4

Basic techniques to adjust and modify photos using Photoshop software tools. Includes digital color theory and photo quality standards; practice photo scan reproduction, resolution and scaling, masking, layer editing and effects, filters, color correction and file formats; output for editing, restoring, and retouching.

GRAP 12 — Advanced Photo Editing with Photoshop

3 Units

Degree Applicable (May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

54 hours lab

Prereauisite: 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.

GRAP 14 — Digital Color Management

3 Units

Degree Applicable (May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

54 hours lab

Prerequisite: 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.

GRAP 16 — Digital Image Design with Illustrator and Freehand

3 Units

Degree Applicable

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

54 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.

GRAP 18 — Advanced Image Design - 3D Modeling Techniques

Degree Applicable

3 Units

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

54 hours lab

Prerequisite: GRAP 16

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.

GRAP 20 — Applying Photos and Images in Multimedia

Degree Applicable

3 Units

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture 54 hours lab

Advisorv: 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 OuickTime Pro multimedia software. Mac OS X features, and other multimedia software and hardware.

GRAP 24 — Work Experience in Computer Graphics

2 Units Degree Applicable

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

150 hours lab

Prerequisite: Compliance with Work Experience regulations as designated in the College Cataloa

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 Applicable

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

54 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 Applicable, CSU

(May be taken four times for credit) (May be taken for Pass/No Pass only)

36 hours lecture

In order to offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special 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

CISX 94 — Laboratory Studies in Computer Information Systems

1 to 3 Units

Degree Applicable, CSU

(May be taken four times for credit) (May be taken for Pass/No Pass only)

54 to 162 hours lab

Prerequisite: Laboratory course in the same subject field and program specialization and depending on space availability

This course provides extended laboratory experiences supplementary to those available in the regular program and allows the student to pursue more advanced and complex laboratory projects and experiments. Students who repeat this course will increase skill proficiencies in Computer Information Systems.

CISX 97 — Work Experience in Computer Information Systems

Degree Applicable

1 Unit

(May be taken four times for credit) (May be taken for Pass/No Pass only)

75 hours lab

Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog

Advisory: CISD 14, CISP 14, CISM 31

Provides CIS students with actual on-the-iob experience in an approved work site which is related to the 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 skills through further instruction and practice.

COMPUTER INFORMATION SYSTEMS: BEGINNING

CISB 11 — Computer Information Systems (CAN BUS06)

3.5 Units Degree Applicable, CSU, UC

54 hours lecture

27 hours lab

Provide an understanding of computer information systems: computer hardware, software, data communications, computer ethics, computer security, systems analysis and design, Internet, problem solving and programming using multiple computer platforms

CISB 13 — Microsoft Windows

2 Units

Degree Applicable, CSU

27 hours lecture

27 hours lab

Hands-on instruction using Microsoft Windows Operating System to manage files, folders, and disks. Personalize the Windows environment. Use the Search feature to locate files. Browse the web using Internet Explorer.

CISB 15 — Microcomputer Applications

4 Units

Degree Applicable, CSU, UC

54 hours lecture

54 hours lab

Introduction of windows based operating system and applications. Simple business examples using up-to-date browser, word processing, spreadsheet, database management and presentation software; and integration of software applications. Hands-on instruction on windows based computers.

CISB 21 — Microsoft Excel

4 Units Degree Applicable

4 Units

54 hours lecture

54 hours lab

Spreadsheet concepts using Microsoft Excel including formatting formula and function use, charting, linking worksheets, pivot tables, macros, and VBA code basics.

COMPUTER INFORMATION SYSTEMS: DATABASE

CISD 11 — Database Management - Microsoft Access

Degree Applicable, CSU

54 hours lecture

54 hours lab

Advisory: COMP 12 or CISB 11 and CISB 15

Design, creation, and management of relational databases using Microsoft Access or similar Database Management Software (DBMS). Basic database design, creation of tables, gueries, forms, reports, data access pages, and macros. Creation of custom graphical user interface using Switchboard Manager and Visual Basic (VB) code. Extensive hands-on experience on a Windows-based PC.

CISD 14 — Advanced Database Management - Microsoft Access

4 Units

Degree Applicable

54 hours lecture

54 hours lab

Advanced Microsoft Access programming techniques using Visual Basic for Applications (VBA) language; event-driven programming; Access Object Model, Data Access Objects (DAO) model, ActiveX Data Objects (ADO) model; VBA 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 Applicable

54 hours lecture 54 hours lab

Advisory: CISB 11 or CISB 15

Structured query language (SQL) and transact-SQL for Microsoft SQL Server users. Topics include creating database objects, retrieving and updating data, writing scripts, developing stored procedures/functions, and creating cursors.

CISD 31 — Database Management - Oracle

4 Units

Degree Applicable

54 hours lecture 54 hours lab Advisory: CISB 11

Oracle database management system (DBMS) functions, concepts, and terms. PL/SQL is 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 Applicable

54 hours lecture 54 hours lab Advisory: CISD 31

Design, creation and implementation of interactive single forms with multiple canvases, multiple forms and reports using PL/SQL triggers, the Object Navigator, and Form and Report Builders. Business reports and interactive forms are created using single and multiple tables.

CISD 40 — Database Design

3 Units

Degree Applicable

54 hours lecture Advisory: CISD 11

Database design principles. Understanding database needs and functions, creating data models, entity-relationship (E-R) and Unified Modeling Language (UML) diagrams, using normalization rules and principles to create properly-designed databases, learning basic database administrator objectives and tasks, and understanding the role of data warehousing and data mining.

COMPUTER INFORMATION SYSTEMS: MANAGEMENT

CISM 11 — Systems Analysis and Design

3.5 Units

Degree Applicable, CSU, UC

54 hours lecture 27 hours lab

Advisory: CISB 15 or COMP 12 and CISB 11

Develops basic understanding of information systems, general system solutions and the discipline of systems analysis in relation to the information system life cycle. Develops skills in applying the tools, techniques, and concepts of systems analysis to information systems development.

COMPUTER INFORMATION SYSTEMS: NETWORKING

CISN 11 — Telecommunications/Networking

4 Units

Degree Applicable, CSU

54 hours lecture 54 hours lab

Advisory: CISB 11 or CISB 15

CNASM 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

Degree Applicable

54 hours lecture 54 hours lab

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

4 Units

Degree Applicable, CSU

54 hours lecture 54 hours lab

Advisory: CISB 11 or CISB 15 or COMP 12

Employing a Windows operating system to manage disks, files and applications. Creating and editing documents with Wordpad and Paint applications, analyze and debug Windows operating environment problems, secure a Windows environment, conduct research on the Internet.

CISN 24 — Window Server Network and Security Administration

4 Units

Degree Applicable, CSU

54 hours lecture 54 hours lab

Advisory: CISB 15 or CISB 11 or CISN 11 or CISN 21

Active directory security and policy management, server/client installation, DHCP (Dynamic Host Configuration Protocol), DNS (Domain Name Service), file system security, logon script, network printing, web and terminal server. NAT. IPsec and secure VPN.

CISN 31 — Linux Operating System

4 Units

Degree Applicable, CSU

54 hours lecture 54 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

Degree Applicable, CSU

54 hours lecture 54 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

Degree Applicable, CSU

54 hours lecture

54 hours lab

Advisory: CISB 15, CISN 11 or CISN 21

Novell, Microsoft Windows, and Linux server network integrations. NDS (Novell Directory Services), server and client installation, shared resources, NDS and file system security, login script, network printing and management, ZEN (Zero Effort Network), IP subnet.

CISN 51 — Cisco CCNA Networking and Routing

4 Units

Degree Applicable, CSU

54 hours lecture

54 hours lab

Advisory: CISN 11 or CISN 24 or CISN 34 or CISN 41

CNASM (Computer Network Administration and Security Management) AS degree core course. Prepare for Cisco CCNA certification. Cover LAN/WAN (Local/Wide Area Network) fundamentals, advanced IP subnet, TCP/IP, IGP, EGP, and network design. Configure Cisco IOS, router, switch, VLAN, access list, PPP, frame relay, HDLC, and routing protocols (Static Route, RIP, IGRP, EIGRP, and OSPF).

COMPUTER INFORMATION SYSTEMS: PROGRAMMING

CISP 10 — Principles of Object-Oriented Design

2 Units

27 hours lecture Not Degree Applicable 27 hours lab

Advisory: CISP 11 or CISP 21 or CISP 31 or CISP41

Object-oriented design, patterns, and use of UML in different programming languages that will enable students to build large packages and business applications.

CISP 11 — Programming in Visual Basic

(CAN CSCI06) Degree Applicable, CSU, UC

54 hours lecture

54 hours lab Advisory: CISB 11 or CISB 15 or computer work experience

Programming using Visual Basic. Planning and writing object-oriented applications using Windows Forms and Web Forms; user interface design classes, objects, properties, methods and events; control structures; lists and arrays; printing and Print Previews; accessing a database.

CISP 14 — Advanced Visual Basic Programming

ning 4 Units Degree Applicable, CSU, UC

4 Units

54 hours lecture 54 hours lab Advisory: CISP 11

Advanced computer programming concepts using Visual Basic.NET as the programming language. Designing, coding, testing, and implementing object-oriented multiple tier programs; program design using Unified Modeling Language; using data adapters, object linking and embedding (OLE) objects and dynamic link libraries (DLLs); incorporating XML, Web forms, and Web services; creating and updating sequential and random files; validating input data; trapping errors; designing, displaying, searching, and updating database tables; creating record sets using SQL and database reports using Crystal Reports, producing business graphics; using distributing applications; creating components, collections, and help files.

CISP 21 — Programming in Java

4 Units

Degree Applicable, CSU, UC

54 hours lecture 54 hours lab

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 Degree Applicable

54 hours lecture 54 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 31 — Programming in C++

4 Units

Degree Applicable, CSU, UC

54 hours lecture 54 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, single and multiple inheritance.

CISP 34 — Advanced C++ Programming

4 Units Degree Applicable, CSU, UC

54 hours lecture 54 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 Applicable

(May be taken for option of letter grade or Pass/No Pass)

54 hours lecture

54 hours lab

Advisory: CISB 11 or CISB 15

Plan, develop and debug C# applications using Windows Forms and Web Forms. Course covers loops, if statements, switch blocks, database connections, multiple forms, object-oriented programming concepts. Course taught in hands-on environment and requires projects implementing each concept.

CISP 44 — Advanced Programming in C#

4 Units

Degree Applicable

(May be taken for option of letter grade or Pass/No Pass)

54 hours lecture

54 hours lab

Prerequisite: CISP 41 or industry experience in C#

Advanced programming concepts using C#. Designing, coding, testing and implementing object-oriented multi-tier applications; displaying, searching, and updating SQL/Client databases using Data Readers and Data Adapters with both Windows Forms and Web Forms; creating user controls, Web Services, and container classes classes; creating HTML help files, deploying applications, and developing mobile applications.

CISP 51 — Principles of Object-Oriented Design

2 Units

Degree Applicable

27 hours lecture 27 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

Degree Applicable

27 hours lecture

27 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

ty 4 Units Degree Applicable

54 hours lecture 54 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

Degree Applicable

54 hours lecture

54 hours lab

Advisorv: 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 Degree Applicable, CSU

54 hours lecture 54 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 vulnerablity penetrations are some topics addressed.

CISS 23 — Network Analysis, 4 Units Intrusion Detection/Prevention Systems

Degree Applicable, CSU

54 hours lecture 54 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 Applicable, CSU

54 hours lecture

54 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.

COMPUTER INFORMATION SYSTEMS: WEB APPLICATIONS

CISW 11 — Introduction to Internet Technologies 4 Units

Degree Applicable, CSU

54 hours lecture 54 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 Web Programming with ASP.NET 4 Units Degree Applicable, CSU

54 hours lecture

54 hours lab

Advisory: CISB 15 or CISW 11

Acquire secure 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, AJAX, ASP.NET with VB.NET.

CISW 24 — Secure Server Side Web Programming

Degree Applicable

4 Units

54 hours lecture 54 hours lab

Advisory: CISW 21

Advanced Web programming such as creating Web user interfaces like interactive CGI (Common Gateway Interface), programming databases, managing files, extracting information, report formatting, and accessing Web servers by using a Web scripting or programming language like PERI

CISW 31 — Secure Web Servers

4 Units

Degree Applicable

54 hours lecture

54 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

Degree Applicable

54 hours lecture

Advisory: 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 3 Units and Practice

Degree Applicable

54 hours lecture

Prereauisite: CISW 41

Concepts and design prinicples 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.

COMPUTER SCIENCE

CSCI 110 — Fundamentals of Computer Science

Degree Applicable, CSU, UC

3.5 Units

54 hours lecture

27 hours lab

Prerequisite: MATH 71 or MATH 71B 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 CSC|18) Degree Applicable, CSU, UC

54 hours lecture

54 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

Degree Applicable, CSU, UC

54 hours lecture 54 hours lab

Prerequisite: 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 (CAN CSCI10) Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: 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

(CAN CSCI10)

Degree Applicable, CSU, UC

1 Unit

(May be taken for Pass/No Pass only)

54 hours lab

Corequisite: CSCI 150

Advisory: CSCI 140; language experience programming general and scientific algorithms and data structures in C++ or Java 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

Degree Applicable, CSU, UC

54 hours lecture 27 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

Degree Applicable, CSU, UC

4 Units

72 hours lecture

Prerequisite: MATH 71 or equivalent

Provides students with the mathematical background necessary in Computer Science: set theory, logic, modular arithmetic, combinatorics, finite probability and graphs. Topics include propositional and predicate calculus, recursion, binary search trees and counting techniques.

CSCI 210 — Applied Logic for Computers

3 Units

Degree Applicable, CSU, UC

54 hours lecture Prerequisite: 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

(CAN CSCI22)

Degree Applicable, CSU, UC

54 hours lecture

Prereauisite: CSCI 140 or CSCI 145

Corequisite: CSCI 220L

Abstract data types and running time analysis tools. Linear data structures including sets, stacks, queues, and linked lists. Trees, binary search trees, heaps, and priority queues. Many procedures are discussed using an algorithmic language and selected problems are programmed in a higher level language.

CSCI 220L — Data Structures I Laboratory

(CAN CSCI22)

Degree Applicable, CSU, UC

(May be taken for Pass/No Pass only)

54 hours lab
Coreauisite: CSCI 220

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 Applicable, CSU, UC

54 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

1 Unit

Degree Applicable, CSU, UC

(May be taken for Pass/No Pass only)

54 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.

COMPUTER AND NETWORKING TECH

CNET 50 — PC Servicing

4 Units

Degree Applicable

54 hours lecture

54 hours lab

Advisory: ELEC 50B taken prior or concurrently

PC and peripheral servicing techniques, preventative maintenance, hardware configurations, software confirgurations, software diagnostics, and the use of test equipment.

CNET 52 — PC Operating Systems

4 Units Degree Applicable

54 hours lecture

54 hours lab

Advisory: CNET 50 taken prior

Current operating systems required for A+ and Network+ Certification and general computer servicing. Topics include: identification of major components, installation, configuration, upgrading and troubleshooting.

CNET 54 — PC Troubleshooting

4 Units

Degree Applicable

54 hours lecture

54 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

Degree Applicable

54 hours lecture 54 hours lab

Advisory: CNET 54 taken prior

Standards, terminology, design, implementation and troubleshooting techniques as they relate to both Local and Wide Area Networks. Emphasis on hardware and software components, network architecture and data transmission methods. Of special interest to computer and network technicians and those seeking certification in A+, Network+, or other MSCE certifications.

CNET 60 — A+ Certification Preparation

3 Units Degree Applicable

54 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

3 Units

Degree Applicable

54 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

Degree Applicable

36 hours lecture

54 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

Degree Applicable

36 hours lecture

54 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.

CORRECTIONAL SCIENCES

CORS 10 — Introduction to Correctional Sciences

3 Units

Degree Applicable, CSU

54 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

r 3 Units Degree Applicable

54 hours lecture

Examine methods of controlling and supervising inmates. Emphasizes California's methods in rapidly-expanding institutions.

CORS 20 — Correctional Law

3 Units

Degree Applicable

54 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

Degree Applicable

54 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

Degree Applicable

54 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 35 — Interviewing and Counseling in Corrections 3 Units Degree Applicable

54 hours lecture

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 Degree Applicable

54 hours lecture

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 Degree Applicable

54 hours lecture

Violent crimes of felony assault, robbery, rape, the various types of homicide, and the characteristics of both the offender and the victim.

COUNSELING

COUN 1 — Introduction to College

1 Unit

Degree Applicable, CSU

(May be taken for Pass/No Pass only)

18 hours lecture

Introduction to higher education and the college experience. Includes orientation to college life and higher education resources. Explores graduation, transfer, and career options, factors in educational decision making.

COUN 2 — College Success Strategies

3 Units

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 54 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 Degree Applicable, CSU

54 hours lecture

Prerequisite: Eligibility for ENGL 68

A systematic approach to self-exploration and career/life planning which includes identification of values, interests, skills and self-management style. Develop decision-making and goal-setting skills and identify barriers to success. Explores careers and job search techniques.

COUN 7 — Introduction to the Transfer Process 2 Units

Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass) 36 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 four-year institutions and in academic planning. Field trips are required.

COUN 20 — Peer Counselor Training

2 Units

Degree Applicable, CSU

36 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.

COUN 51 — Career Planning

1 Unit

Degree Applicable, CSU

(May be taken for Pass/No Pass only)

18 hours lecture

Designed for students who want assistance in making career decisions. A variety of assessments, inventories, and computer generated information will be used in analyzing the student's potential in the world of work.

COUN 54 — Single Parent Academy

3 Units

Degree Applicable

54 hours lecture

Develop personal, educational, and career/life planning skills for single parents.

COUN 99A — Special Projects in Counseling

1 to 2 Units

Degree Applicable, CSU

(May be taken four times for credit)

18 to 36 hours lecture

In order to offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. Students must have instructor 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.

DANCE

DNCE 1 — Ballet Fundamentals

.5 to 2 Units Degree Applicable, CSU, UC

Degree Ap

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 108 hours activity

Fundamentals of ballet dance styles and an exploration of composition in the ballet dance form. Students who repeat this course will improve proficiency through continued instruction and practice.

DNCE 2A — Ballet I

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Basic vocabulary, technique, and movement combinations for ballet. Students who repeat this course will improve proficiency through continued instruction and practice.

DNCE 2B — Ballet II

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Intermediate technique, vocabulary and movement combinations of ballet. Students who repeat this course will improve proficiency through continued instruction and practice.

DNCE 3 — Ballet Performance

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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 4 — Choreography

.5 to 2 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 108 hours activity

Prerequisite: DNCE 12A or DNCE 12B or DNCE 13

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

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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 11B — Social Dance Forms II

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Advanced social dance technique. Focus on improving fundamentals of rhythm, dance positions, dance formations and introduction of advanced techniques to be used in the study of, but not limited to, Swing, Salsa, Foxtrot. Waltz. Folk. Polka. Cha Cha and Tango

DNCE 12A — Modern I

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Basic vocabulary, technique, and movement combinations for Modern dance. Students who repeat this course will improve skills through further instruction and practice.

DNCE 12B — Modern II

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Intermediate technique and movement combinations for modern dance. Students who repeat this course will improve skills through further instruction and practice.

DNCE 13 — Modern Performance

.5 to 2 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 108 hours activity

Introduces the experienced modern dance student to an overview of modern dance styles and choreography elements, enabling them to choreograph and perform. Students who repeat this course will improve proficiency through continued instruction and practice.

DNCE 14A — Jazz I

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Basic vocabulary, technique, movement combinations and routines for jazz dance. Students who repeat this course will improve skills through further instruction and practice.

DNCE 14B — Jazz II

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Intermediate technique, movement combinations and routines for jazz dance. Students who repeat this course will improve skills through further instruction and practice.

DNCE 15 — Jazz Performance

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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

.5 to 2 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 108 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

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Presents basic technique, rhythms and routines for tap dance. Students who repeat this course will improve skills through further instruction and practice.

DNCE 18B — Tap II

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Intermediate technique, rhythms and routines for tap dance. Students who repeat this course will improve skills through further instruction and practice.

DNCE 19 — Tap Performance

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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

1 to 2 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

54 to 108 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 28 — Theater Dance I

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Provides the beginning to advanced dancer the opportunity to experience different techniques of leading contemporary dancers and choreographers. Students who repeat this course will improve skills through further instruction and practice.

DNCE 31 — Classical Dance

.5 to 2 Units

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 108 hours activity

Provides the proficient ballet student the opportunity to experience the different schools of ballet technique. Students who repeat this course will improve skills through further instruction and practice.

DNCE 32 — Commercial Dance

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Provides the intermediate to advanced jazz dancer the opportunity to experience the different techniques of leading commercial dancers. teachers and choreographers. Students who repeat this course will improve skills through further instruction and practice.

DNCE 33 — Improvisation

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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

.5 to 1 Unit

Degree Applicable, CSU

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

108 hours activity

Prereauisite: 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.

Degree Applicable, CSU, UC | DNCE 39A — Alignment and Correctives I

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Based on exercises and concepts developed by Joseph Pilates. Includes basic mat work, 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

.5 to 1 Unit Degree Applicable, CSU, UC

(May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass)

36 to 54 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

.5 to 1 Unit Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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

Degree Applicable, CSU, UC

54 hours lecture

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

Degree Applicable, CSU, UC

54 hours lecture

Advisory: Eligibility for ENGL 68

Survey of 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 dance on other art forms.

DISABLED STUDENTS

DSPS 10 — College Transition Strategies for Students with Disabilities

3 Units

Not Degree Applicable

(May be taken for option of letter grade or Pass/No Pass)

54 hours lecture

Advisory: Eliaibility 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, self-management, educational accommodations, effective learning methods, and goal setting.

DSPS 15 — Personalized Career Exploration for Students with Disabilities

1 Unit

Not Degree Applicable

(May be taken four times for credit) (May be taken for Pass/No Pass only)

18 hours lecture

Self-evaluation including interests, experiences, personality, values, and disability-related limitations as they relate to educational and career decisions. Identification of skills and resources, including those that relate to disability factors. Students who repeat this course will improve skills through further instruction and practice.

DSPS 16 — Educational and Career Options for Students with Disabilities

Not Degree Applicable

1 Unit

3 Units

1 Unit

(May be taken four times for credit)
(May be taken for Pass/No Pass only)

18 hours lecture

Students will identify educational and career options. Emphasis on strategies that facilitate disability-sensitive career and educational planning. Barriers to employment and other disability issues are addressed. Students who repeat this course will improve skills through further instruction and practice.

DSPS 20 — Improving Spelling and Reading of Words

Not Degree Applicable

(May be taken four times for credit) (May be taken for Pass/No Pass only)

54 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

Not Degree Applicable

(May be taken four times for credit)
(May be taken for Pass/No Pass only)

54 hours lab

Advisory: Concurrent enrollment in ENGL 67 or above, or MATH 50 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

Not Degree Applicable

(May be taken four times for credit)
(May be taken for Pass/No Pass only)

54 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 Disabilities

ilities 3 UnitsNot Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

54 hours lecture

Advisory: Eligibility for ENGL 67 or AMLA 42W and READ 80 or AMLA 32R.

Concurent 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

Degree Applicable, CSU, UC

54 hours lecture

Introduction to the field of education for students interested in teaching at the elementary or secondary level. Principles and issues are explored including history, philosophy, politics of education, needs of learners, and educational specialization. Course includes guidance in the selection of a future area of specialization. K-12 classroom observations required.

EDUC 16 — Aspects and Issues in Teaching Service Learning

3 Units

Degree Applicable, CSU, UC

54 hours lecture

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

ELEC 10 — Introduction to Mechatronics

2 Units

Not Degree Applicable

18 hours lecture

54 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. Hands-on activities include the building of a robot.

ELEC 11 — Technical Applications in Microcomputers 3 Units

Degree Applicable, CSU

36 hours lecture

54 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.

ELEC 12 — Computer Simulation and Troubleshooting 2 Units Degree Applicable

18 hours lecture 54 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.

ELEC 50A — Electronic Circuits (DC)

4 Units

Degree Applicable, CSU

54 hours lecture

54 hours lab

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

4 Units

Degree Applicable, CSU

54 hours lecture

54 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

Degree Applicable, CSU

54 hours lecture

54 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

Degree Applicable

54 hours lecture 54 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

Degree Applicable, CSU

54 hours lecture 54 hours lab

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

Degree Applicable, CSU

36 hours lecture

54 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

Degree Applicable

54 hours lecture

54 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 Degree Applicable, CSU

54 hours lecture

54 hours lab

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.

4 Units | ELEC 61 — Electronic Assembly and Fabrication

2 Units

Degree Applicable, CSU

18 hours lecture

54 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.

ELEC 62 — Advanced Surface Mount Assembly and Rework

2 Units

Not Degree Applicable

(May be taken two times for credit)

18 hours lecture

54 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.

ELEC 63 — Electronic Assemblies Recertification

1 Unit

Degree Applicable

(May be taken four times for credit)

9 hours lecture

27 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

Not Degree Applicable

54 hours lecture

Advisory: ELEC 54B taken prior

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

Degree Applicable, CSU

54 hours lecture

54 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

3 Units

54 hours lecture

Prepares qualified electronic technicians for the FCC and/or NARTE commercial licenses for technicians and engineers in the communications field.

ELEC 81 — Laboratory Studies in Electronics Technology

1 to 2 Units

Degree Applicable

Not Degree Applicable

(May be taken two times for credit)

54 to 108 hours lab

Advisory: ELEC 50B taken prior or concurrently

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 91 — Work Experience in Electronics

1 to 4 Units

Degree Applicable

(May be taken four times for credit)
(May be taken for Pass/No Pass only)

75 to 300 hours lab

Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog

Advisory: ELEC 56

Provides actual on-the-job experience in Electronics at an approved work site which is related to classroom instruction. A minimum of five 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

4 Units

Degree Applicable

54 hours lecture

54 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 Installation

4 Units

Degree Applicable

54 hours lecture

54 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 Degree Applicable

54 hours lecture

54 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 Electronic Systems

4 Units Degree Applicable

54 hours lecture 54 hours lab Advisory: FST 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

4 Units

Degree Applicable

54 hours lecture 54 hours lab

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
Degree Applicable

54 hours lecture 54 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 Degree Applicable

36 hours lecture

Advisory: EST 56 or ECWT 56 taken prior

Prepares for the California State Contractors C-7 Low Voltage Systems license examination. Students who repeat this course will improve skills through further instruction and practice.

EMERGENCY MEDICAL SERVICE

EMS 1 — Fundamentals for Paramedics

4 Units Degree Applicable

72 hours lecture

Prerequisite: Completed Paramedic Program application, current California EMT I (Basic) certificate, and six months employment as an EMT I Advisory: Eliaibility 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.

EMS 10 — Anatomy and Physiology for Paramedics

2 Units Degree Applicable

39 hours lecture

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

Degree Applicable

20 hours lecture

6 hours lab

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 Degree Applicable

39 hours lecture

13 hours lab

Prerequisite: Admission to the Paramedic Program
Corequisite: EMS 10, EMS 20, EMS 40, EMS 50, and 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

Degree Applicable

91 hours lecture

Prerequisite: Admission to the Paramedic Program Corequisite: EMS 10, EMS 20, EMS 30, EMS 50, and 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

Degree Applicable

52 hours lecture 104 hours lab

Prerequisite: Admission to the Paramedic Program Coreauisite: EMS 10, EMs 20, EMS 30, EMS 40, and 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

Degree Applicable

156 hours lecture

Prereauisite: 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

Degree Applicable

(May be taken for Pass/No Pass only)

200 hours lab

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

Degree Applicable

(May be taken for Pass/No Pass only)

480 hours lab

Prerequisite: Successful completion of Los Angeles County accreditation

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

10 Units

Degree Applicable

144 hours lecture

126 hours lab

Prerequisite: High school graduation or equivalent and minimum of 18 vears of aae

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.

2 Units | ENGR 24 — Engineering Graphics EMT 91 — Emergency Medical Technician I Refresher

Degree Applicable

1 Unit

(CAN ENGRO2)

4 Units Degree Applicable, CSU, UC

36 hours lecture

108 hours lab

Prerequisite: ENGR 18 and eligibility for MATH 51

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

(CAN ENGRO8)

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: 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 inertia, distributed and concentrated loads, Forces in cables and beams. Fluid statics. Introduction to virtual work. Vector approach.

ENGR 41 — Dynamics

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prereauisite: ENGR 40

Absolute and relative motion of particles and rigid bodies in translational and rotational motion. Instantaneous center of rotation. Application of Newton's Second Law, work-energy and impulsemomentum methods. Introduction to mechanical vibrations. Vector approach.

ENGR 42 — Mechanics of Materials

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: ENGR 40

Mechanics of deformable bodies subjected to axial, torsional, shearing, and bending loads. Combined stresses. Statically indeterminate structures. Deflection and stress analysis of beams. Stability of columns. Strain energy methods. Design of pressure vessels and structures.

ENGR 44 — Electrical Engineering

4 Units Degree Applicable, CSU, UC

(CAN ENGRO6) 54 hours lecture

54 hours lab

Prerequisite: PHYS 48

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.

40 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

(May be taken four times for credit)

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 18 hours lecture

Introduction to the engineering profession; academic requirements: articulation agreements with four-year institutions; engineering ethics; professional engineering licensure; engineering study as a preparation

ENGR 8 — Properties of Materials

4 Units Degree Applicable, CSU, UC

(CAN ENGRO4) (May be taken for option of letter grade or Pass/No Pass)

72 hours lecture

Prerequisite: CHEM 40 or 50 and PHYS 4A or 2AG

for other careers; academic success strategies.

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 Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass) 36 hours lecture

54 hours lab

Fundamental engineering graphics and problem solving techniques. Skills in freehand and instrument drawing are developed and applied to the solution of problems. Orthographic, isometric and oblique drawings.

ENGINEERING DESIGN TECHNOLOGY

EDT 11 — Technical Engineering Drawing I

3 Units

Degree Applicable, CSU

36 hours lecture 72 hours lab

Advisory: Eligibility for MATH 51

Basic skills for a solid foundation in the Engineering Drawing or Computer-Aided Design fields. Involves application, basic sketch, theories and design processes used in engineering and industrial drawings. Completion of a portfolio is a requirement of this course.

EDT 12 — Technical Engineering Drawing II

3 Units Degree Applicable, CSU

36 hours lecture 72 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 - Geometric **Dimensioning and Tolerancing**

3 Units

Degree Applicable, CSU

36 hours lecture 72 hours lab Advisory: EDT 11, EDT 12

Use of symbols for tolerance of form and tolerance of position and drawing requirements with respect to actual function and relationship of part features. Studies of related terminology, power transmission, bearing and mechanical devices, related exercises including design layout, details and assembly drawings. Completion of a portfolio is a requirement of this course.

EDT 16 — Basic CAD and Computer Applications 4 Units

Degree Applicable, CSU

54 hours lecture 54 hours lab

Advisory: Eligibility for MATH 51

Basic CAD (Computer Aided Design and Drafting) and computer application in architecture, engineering and related fields (including basic word processing, spreadsheet, CAD and presentation applications).

EDT 18 — Engineering CAD Applications

4 Units

Degree Applicable, CSU

54 hours lecture 54 hours lab

Advisory: 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.

EDT 20 — Technical Descriptive Geometry

3 Units Degree Applicable, CSU

36 hours lecture 72 hours lab Advisory: EDT 11

Advanced course for solving visual and spatial problems graphically. Applies the principles of orthographic projection and 3-D visualization to solve problems that involve lines, planes, intersections, auxiliary views, and developments. A time saving skill necessary for prospective engineers and technology students.

EDT 24 — Engineering CAD 3-D

3 Units

Degree Applicable, CSU

36 hours lecture 72 hours lab Advisory: FDT 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.

EDT 26 — Civil Engineering Technology and CAD

3 Units Degree Applicable, CSU

36 hours lecture 72 hours lab

Advisory: EDT 11. EDT 16

Theory of civil engineering projects with hands-on instruction in civil drawings and Computer Aided Drafting and Design (CAD) applications. Layout, topography maps, grading plans, sections, street improvements, and interpretation of surveyor's data are covered. Set of CAD drawings produced for a final portfolio.

EDT 28 — Engineerng CAD 3D Illustration/Animation 3 Units Degree Applicable, CSU

36 hours lecture

72 hours lab

Advisorv: 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).

EDT 89 — Engineering Design Technology Work Experience

1 to 2 Units

4 Units

Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

75 to 150 hours lab

Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog

Provides on-the-job experience in Engineering Design Technology at an approved work site using skills and knowledge from classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. This course is available to students achieving 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 ENGLO2) Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: ENGL 68 or satisfactory score on the English Placement Test Develops effective expository writing skills; investigates the principles and methods of composition as applied to the writing of essays and the research paper; emphasizes critical reading of academic material.

ENGL 1AH — Freshman Composition - Honors 4 Units (CAN ENGLO2) Degree Applicable, CSU, UC

72 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 ENGLO4) Degree Applicable, CSU, UC

54 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 3 Units - Honors

(CAN ENGLO4) Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: ENGL 1A or ENGL 1AH and acceptance into the Honors Program

Critical, oral, and written evaluation, analysis and interpretation of short and long fiction, poetry, and drama. Develops a 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

4 Units

Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: 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 Applicable, CSU, UC

72 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

(CAN ENGLO6) Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass)

54 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

(CAN ENGLO6) Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass)

54 hours lecture

Prerequisite: ENGL 1A or ENGL 1AH

Emphasizes the student's development as a poet.

ENGL 8C — Creative Writing - Novel

3 Units

Degree Applicable

(May be taken for option of letter grade or Pass/No Pass) 54 hours lecture

Prereauisite: ENGL 8A

Elements, processes, and techniques of novel writing. Includes genre, settings, point of view, character sketch, plot development, description, and dialogue with an emphasis of student development as a writer of novels through practice and discussion.

${\bf ENGL~8D - Creative~Writing~Poetry~Collection}$

3 Units Degree Applicable

(May be taken for option of letter grade or Pass/No Pass) 54 hours lecture

Prerequisite: ENGL 8B

Elements, processes, and techniques for creating and writing poetry collections. Includes theme, imagery, line breaks, diction, and prosody, with an emphasis on student development as a creator of poetry collections through practice, writing, and discussion.

ENGL 8E — Creative Writing - Memoir

3 Units Degree Applicable

(May be taken for option of letter grade or Pass/No Pass) 54 hours lecture

Analysis and writing of memoirs including stylistic and syntactic forms and composition strategies used when writing memoir.

ENGL 8F — Creative Writing - Nonfiction

3 Units

Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass) 54 hours lecture

Analysis and writing of creative nonfiction including stylistic and syntactic forms and composition strategies used when writing creative nonfiction.

ENGL 9 — Writing the Personal Journal

3 Units

Degree Applicable

(May be taken for option of letter grade or Pass/No Pass) 54 hours lecture

Prereauisite: Eliaibility for ENGL 1A

Personal exploration, development of creativity, increased comfort with the writing process, and expanded awareness of others? lives through journal writing. Journal methods will be patterned after Dr. Ira Progoff's concept of creativity and growth as well other approaches to journal writing.

ENGL 10 — Writing Enhancement

1 Unit

Not Degree Applicable

(May be taken for option of letter grade or Pass/No Pass) 18 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.

ENGL 64 — Writing Effective Sentences

1 Unit

Not Degree Applicable

(May be taken for option of letter grade or Pass/No Pass)

18 hours lecture

Prerequisite: Eligibility for ENGL 67

Improve sentence writing skills through the analysis and application of sentence elements. Includes the identification and correction of common sentence problems, such as comma splice, fragment, and runon.

ENGL 65 — Grammar Review

1 Unit

Not Degree Applicable

(May be taken for option of letter grade or Pass/No Pass)
18 hours lecture

Review 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

1 Unit

Not Degree Applicable

(May be taken for option of letter grade or Pass/No Pass) 18 hours lecture

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

Not Degree Applicable

(May be taken for option of letter grade or Pass/No Pass) 72 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.

ENGL 68 — Preparation for College Writing

4 Units Degree Applicable

(May be taken for option of letter grade or Pass/No Pass) 72 hours lecture

Prerequisite: 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.

ENGL 75 — Vocabulary Building

3 Units

Not Degree Applicable

(May be taken for option of letter grade or Pass/No Pass) 54 hours lecture

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

Degree Applicable, CSU

54 hours lecture

Prerequisite: ENGL 1A

Introductory course in language structure, linguistics, language development. Explores first and second-language acquisition. Meets the Commission on Teaching Credentialing standards for Language Acquisition requirement for elementary school teaching credential.

ENGL 99 — Special Projects in English

2 Units

Degree Applicable, CSU

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

To offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced.

FAMILY AND CONSUMER SCIENCES

FCS 41 — Life Management

3 Units

Degree Applicable, CSU

54 hours lecture

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 51 — Consumer Skills, Issues, and Strategies

3 Units

54 hours lecture

Consumer skills with an emphasis on practical applications in the marketplace. Topics include history of the consumer movement, consumer rights and responsibilities, financial wellness, consumer debt, behavior, fraud, and redress. Explores the relationship between consumer skills, careers, and job skills.

FCS 80 — Financial Planning

3 Units

Degree Applicable, CSU

54 hours lecture

Functional approach to personal finance, including budget systems, consumer credit, health care and insurance, debt collection systems, status obligation, accumulating reserves. Examines short-term and long-term financial goals. Applicable for personal and professional use.

Students may not earn credit for both BUSA 71 and FCS 80.

FCS 91 — Work Experience in Family and Consumer Sciences

1 Unit

Degree Applicable

(May be taken four times for credit)
(May be taken for Pass/No Pass only)

75 hours lab

Prerequisite: Compliance with work experience regulations as designated in the College Catalog.

Provides Family and Consumer Science 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 guaranteed but assistance is provided by the Family and Consumer Sciences faculty. Students who repeat this course will improve skills through further instruction and practice.

FASHION MERCHANDISING AND DESIGN

FASH 1 — Fashion Design and CAD Lab

1 Unit Degree Applicable

(May be taken three times for credit)

(May be taken for Pass/No Pass only)

54 hours lab

Provides design and computer laboratory experience to supplement regular program, and provides opportunities for students to pursue more advanced projects. Students who repeat this course will improve skills through further instruction and practice.

FASH 8 — Introduction to Fashion

3 Units

Degree Applicable, CSU

54 hours lecture

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

3 Units

Degree Applicable, CSU

Degree Applicable, CSU

54 hours lecture

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

(CAN FCS10)

36 hours lecture

54 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 Applicable, CSU

36 hours lecture

54 hours lab

Prerequisite: 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

(CAN FCS20)

Degree Applicable, CSU

54 hours lecture
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.

Course Descriptions

FASH 17 — Textiles

3 Units

(CAN FCS06)

Degree Applicable, CSU, UC

54 hours lecture

36 hours lecture

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 Degree Applicable

36 hours lecture

54 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.

FASH 21 — Patternmaking I

3 Units

Degree Applicable, CSU

36 hours lecture 54 hours lab 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

Degree Applicable

36 hours lecture 54 hours lab Prerequisite: 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

Degree Applicable

36 hours lecture 54 hours lab Prereauisite: 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.

FASH 24 — Fashion Patternmaking by Computer

3 Units

Degree Applicable

54 hours lab

Advisory: FASH 21

Study of the applications of Computer Aided Design (CAD) patternmaking and grading for the fashion industry. Exploration of drawing techniques, pattern development, flat pattern manipulation and the sizing/grading of patterns.

FASH 25 — Fashion Computer-Assisted Drawing

3 Units

36 hours lecture 54 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.

FASH 26 — Fashion Computer Assisted Design

2 Units

Degree Applicable

18 hours lecture

54 hours lab

Use an advanced, industry-specific CAD system to produce high-level graphic presentations. Create color palettes, textiles, and surface designs; explore texture mapping and how it is used to create a natural drape on the fashion figure; and use the computer as a layout design tool for swatches and vector flat drawings.

FASH 30 — Fashion Design and Product Development I 3 Units Degree Applicable

54 hours lecture

Advisory: FASH 15

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 3 Units Degree Applicable

36 hours lecture

54 hours lab

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 Degree Applicable

36 hours lecture

54 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.

Degree Applicable | FASH 35 — Special Topics in Fashion Design

2 Units

Not Degree Applicable

(May be taken four times for credit)

18 hours lecture

54 hours lab

Prerequisite: FASH 10

Provides exploratory design experience to enhance basic fashion design curriculum. Students will explore advanced garment design and/or construction techniques. Students who repeat this course will improve skills through further instruction and practice.

FASH 62 — Retail Store Management and Merchandising 3 Units

Degree Applicable, CSU

54 hours lecture

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

Degree Applicable, CSU

54 hours lecture

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

Degree Applicable, CSU

36 hours lecture

54 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 to 3 Units Degree Applicable

(May be taken four times for credit)
(May be taken for Pass/No Pass only)

75 to 225 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

Degree Applicable

(May be taken two times for credit)

18 hours lecture

Pre-trip lectures on the development of the ready-to-wear industry including background information on specific designer studios, factories, and retail stores to be visited, plus travel information for the trip. Students who repeat this course will improve skills through further instruction and practice.

(May be taken for Pass/No Pass only)

FASH 91 — Field Studies - New York

2 Units

Degree Applicable

(May be taken two times for credit)

36 hours lecture

Corequisite: FAM 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 Degree Applicable

(May be taken two times for credit)

54 hours lecture

Corequisite: FAM 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

3 Units

Degree Applicable, CSU

54 hours lecture

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

3 Units

Degree Applicable, CSU

54 hours lecture

Introduction and history of fire prevention, including codes, ID and correction of hazards, investigation, and safety education.

FIRE 3 — Fire Protection Equipment and Systems

Degree Applicable, CSU

54 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

Degree Applicable, CSU

54 hours lecture

Advisorv: 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

Degree Applicable, CSU

54 hours lecture

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 Degree Applicable

Lactura

54 hours lecture

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

Degree Applicable, CSU

54 hours lecture

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 Degree Applicable, CSU

54 hours lecture

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

Degree Applicable, CSU

54 hours lecture

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

Degree Applicable, CSU

54 hours lecture

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

Degree Applicable, CSU

54 hours lecture

Advisory: FIRE 1 or eauivalent 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

Degree Applicable, CSU

80 hours lecture

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

Degree Applicable

40 hours lecture

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

Degree Applicable

40 hours lecture

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 Degree Applicable

40 hours lecture

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

Degree Applicable

40 hours lecture

Advisory: FIRE 21 or equivalent taken prior

Organizational communication skills for training officers with emphasis on leadership, interpersonal relations, developing and conducting staff meetings, assertive and argumentative presentations and encouraging staff participation. A State Board of Fire Science accredited course.

FIRE 24 — Fire Instructor 2C

2 Units Degree Applicable

40 hours lecture

Advisory: FIRE 21 or equivalent taken prior

Preparation for fire personnel instructor/ training officer. Principles of media use in the instruction process, selection of audio-visual and instructional media, employment of basic advanced forms of instructional media, use of computers in the instructional process, individual instructional programs. A State Board of Fire Science accredited course.

FIRE 30 — Fire Management 1

Degree Applicable

40 hours lecture

Advisory: FIRE 8 or FIRE 86 or equivalent taken prior

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.

FIRE 31 — Fire Management 2A -2 Units Organizational Development and Human Relations

Degree Applicable

40 hours lecture

Advisory: FIRE 30 taken prior

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 32 — Fire Management 2B - Fire Service Financial Management

Degree Applicable

2 Units

40 hours lecture Advisory: FIRE 30

Budget preparation and financial management of personnel, stations, fire equipment, and other fire department resources.

FIRE 33 — Fire Management 2D - Master Planning in 2 Units the Fire Service

Degree Applicable

40 hours lecture Advisory: FIRE 31

For fire personnel responsible for master planning fire protection needs for a city, county or state fire agency. Covers program and master planning, forecasting, systems, policy analysis and design.

FIRE 34 — Fire Management 2E - Personnel and Labor 2 Units Degree Applicable

40 hours lecture

Advisory: FIRE 31

For fire supervisors and managers responsible for supervision, implementing department policies, diversity, labor relations, human resources and legal issues.

2 Units | FIRE 40 — Fire Prevention 1A

2 Units

Degree Applicable

40 hours lecture

Advisory: FIRE 5, FIRE 86, or equivalent taken prior

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.

FIRE 41 — Fire Prevention 1B

2 Units

Degree Applicable

40 hours lecture

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.

FIRE 42 — Fire Prevention 1C

2 Units

Degree Applicable

40 hours lecture

Advisory: FIRE 40 and FIRE 41 or equivalent taken prior 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 and controlling of flammable and liquified gases.

FIRE 43 — Fire Prevention 2A

2 Units

Degree Applicable

40 hours lecture

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.

FIRE 44 — Fire Prevention 2B

2 Units Degree Applicable

40 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 pertaining to fire and life safety standards.

FIRE 45 — Fire Prevention 2C

2 Units Degree Applicable

40 hours lecture

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,
refrigeration systems, medical gasses and fireworks.

FIRE 50 — Fire Command 1A

2 Units Degree Applicable

40 hours lecture

Advisory: FIRE 7, FIRE 86 taken prior

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 51 — Fire Command 1B

2 Units

Degree Applicable

40 hours lecture

Advisory: FIRE 50 or equivalent taken prior

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

Not Degree Applicable

2 Units

40 hours lecture Advisory: FIRE 51

For fire officers managing fires using the Incident Command System (ICS) when commanding multiple alarms. Includes unified command structures and areas of geographical divisions.

FIRE 53 — Fire Command 2B - Management of Major Hazardous Material Incidents

2 Units

Degree Applicable

40 hours lecture Advisory: FIRE 51

For fire officers responsible for hazardous material responses. Includes community planning, research, legislation enforcement and litigation from hazardous material responses.

FIRE 54 — Fire Command 2C - High-Rise Fire Tactics 2 Units Degree Applicable

ture

40 hours lecture Advisory: FIRE 51

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.

FIRE 55 — Fire Command 2D - Disaster Planning and Management

Degree Applicable

2 Units

40 hours lecture

Advisory: FIRE 51 taken prior

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.

FIRE 56 — Fire Command 2E - Wildland Fire Control

I 2 Units Degree Applicable

40 hours lecture Advisory: 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 Degree Applicable

40 hours lecture

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 Degree Applicable

40 hours lecture

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

Not Degree Applicable

2 Units

2 Units

e 40 hours lecture

Advisory: FIRE 60, FIRE 61

Designed for in-service fire personnel completing their Fire Investigation II Certification and provides the information to successfully investigate, apprehend, and convict arsonists.

FIRE 63 — Fire Investigation 2B - Fire Cause Determination 2

Not Degree Applicable

40 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

1 Unit

Degree Applicable

(May be taken for Pass/No Pass only)

24 hours lecture

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.

FIRE 85 — Special Issues in Fire Technology

2 Units Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)
36 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

12 Units

Degree Applicable

138 hours lecture

382 hours lab

Prerequisite: FIRE 1 through FIRE 6 or equivalent, PE 50 or equivalent, EMT certified, and either PE-F 50 or PE-F 51 or PE-F 52 (or equivalent)
Corequisite: PE-F 53

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

Not Degree Applicable

(May be taken for Pass/No Pass only)

22 hours lecture

48 hours lab

Specialized Fire Academy designed for fire explorers. Instruction in the proper use of fire and rescue apparatus and equipment and fire extinguishing techniques in accordance with the State of California Fire Marshall's Office.

FIRE 89 — Firefighter Exam Preparation

.5 Unit

Not Degree Applicable

(May be taken for Pass/No Pass only)

8 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

Not Degree Applicable

(May be taken for Pass/No Pass only)

8 hours lecture

32 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

Degree Applicable

(May be taken four times for credit) (May be taken for Pass/No Pass only) 150 hours activity

Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog

Work experience in fire service at an approved work site which is related to classroom instruction. A minimum of 75 paid or 60 non-paid 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 FRENO2) CAN FREN SEQ A Degree Applicable, CSU, UC

72 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

(CAN FRENO4) Degree Applicable, CSU, UC

CAN FREN SEQ A

72 hours lecture

Prerequisite: FRCH 1 or equivalent

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

4 Units

(CAN FRENO8)

Degree Applicable, CSU, UC

CAN FREN SEQ B

(May be taken for option of letter grade or Pass/No Pass) 72 hours lecture

Prerequisite: FRCH 2 or equivalent

Expansion of vocabulary and structural components. Further development of communicative proficiency with increasing emphasis on reading and writing. Extensive exposure to culture from France and other French-speaking countries.

FRCH 4 — Continuing Intermediate French

4 Units (M

Degree Applicable, CSU, UC

(CAN FREN10) CAN FREN SEQ B

(May be taken for option of letter grade or Pass/No Pass)

72 hours lecture

Prerequisite: FRCH 3 or equivalent

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 Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 72 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 Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 72 hours lecture

Prereauisite: FRCH 5 or eauivalent

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 52 — Conversational French 1

3 Units Degree Applicable

(May be taken for option of letter grade or Pass/No Pass) 54 hours lecture

Prereauisite: FRCH 1 or eauivalent

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

3 Units

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass)

54 hours lecture

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

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass)

54 hours lecture

Prerequisite: FRCH 3 or FRCH 53 or equivalent

Develops intermediate-high fluency through further expansion of vocabulary and practical use of language.

FRCH 60 — French Culture Through Cinema

3 Units

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass)

54 hours lecture

French culture and history as presented in classic and recent French films. Analysis of characters and political, social and artistic movements in France and other Francophone countries as reflected in the works of French-speaking film directors and writers. Lectures and class discussions conducted in English. All films with English subtitles.

GEOGRAPHY

GEOG 1 — Elements of Physical Geography (CAN GEOGO2)

3 Units Degree Applicable, CSU, UC

54 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 Applicable, CSU, UC

54 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 1 H.

GEOG 1L — Physical Geography Laboratory

1 Unit

Degree Applicable, CSU, UC

54 hours lab

Degree Applicable, 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.

GEOG 1LH — Physical Geography Laboratory - Honors

1 Unit Degree Applicable, CSU, UC

development, and current problems.

54 hours lab

Prerequisite: Acceptance into the Honors Program

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. An honors course designed to provide an enriched experience. Students may not receive credit for

both GFOG 11 and GFOG 11 H. **GEOG 2** — Human Geography

3 Units

Degree Applicable, CSU, UC

(CAN GEOGO4) 54 hours lecture

Prereauisite: Eliaibility 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

Degree Applicable, CSU, UC

54 hours lecture

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 Applicable, CSU

54 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

Degree Applicable, CSU, UC

54 hours lecture

Advisory: Eligibility for ENGL 68

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

(May be taken for option of letter grade or Pass/No Pass)

54 hours lecture

The geographical analysis of past and current patterns of world urbanization. Emphasis will be placed on city origins, growth,

GEOG 10 — Introduction to Geographic Information Systems

3 Units

Degree Applicable, CSU, UC

36 hours lecture

54 hours lab

Advisory: Eliaibility 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

Degree Applicable

54 hours lecture Prereauisite: 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

Degree Applicable, CSU, UC

54 hours lecture

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

Degree Applicable, CSU

(May be taken four times for credit)

36 hours lecture

Offers selected students recognition for their academic interest and ability and the opportunity to explore their disciplines in depth. Various departments sometimes offer Special Projects courses. The content of 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 — Physical Geology (CAN GEOLO2)

4 Units

Degree Applicable, CSU, UC

54 hours lecture

54 hours lab

Prerequisite: Eligibility for MATH 51

An introduction to geological thinking and Earth processes, Essentials of minerals, rocks, earthquakes, volcanoes, and landscapes are presented within a framework of plate tectonics operating in concert with atmosphere and ocean processes. A required course for students entering the geosciences major. May be taken by the non-major as a transferable lab science. Required field trips may involve overnight camping.

GEOL 2 — Historical Geology

4 Units Degree Applicable, CSU, UC

(CAN GEOLO4)

54 hours lecture

54 hours lab

Prerequisite: GEOL 1 or equivalent

Geologic principles are applied in tracing the tectonic, biologic, and climatic development of Earth, mainly North America, through geologic time. The study of Earth history using geologic maps, cross-sections, minerals, rocks, and fossils is integrated with basic field methods. Required field trips may involve overnight camping.

GEOL 3 — Paleontology, Life of the Past

4 Units

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass)

54 hours lecture

54 hours lab

An introduction to paleontology including the history of paleontology, methods in paleontology, processes of evolution and the floral and faunal succession through geologic time.

GEOL 6 — Earthquakes

1 Unit

Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

18 hours lecture

Discussions of seismic hazards in relation to life and property. Includes the study of seismic safety legislation, socio-economic impacts and prediction of earthquakes.

GEOL 7 — Geology of California

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Introductory geology course highlighting the natural provinces of California, namely their mineral, rock, and petroleum resources. volcanoes and earthquakes, landscapes, and geologic history as influenced by plate tectonic and surface processes. Field trips are required and may involve overnight camping.

GEOL 8 — Earth Science

3 Units

Degree Applicable, CSU, UC

54 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

Degree Applicable, CSU, UC

54 hours lecture

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

Degree Applicable, CSU, UC

54 hours lab

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

Degree Applicable, CSU, UC

54 hours lecture

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 Applicable, CSU, UC

54 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

Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

54 hours lab

Field study of the natural history of the Sierra Nevada and adjacent regions. One 3 day and one 4 day weekend field trip will be required. Students may not receive credit for both BIOL 12A and GEOL 12A.

GEOL 12B — Natural History of California

3 Units

Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

54 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 Applicable, CSU, UC

54 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 Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

54 hours lab

Field studies of the Sierra Nevada geologic provinces and the surrounding areas.

GEOL 15 — Field Geology, Mojave Desert

3 Units Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

54 hours lab

Field studies of the geology of the Mojave Desert and surrounding areas.

GEOL 16 — Field Geology, Coast Ranges

3 Units | CAN GERM SEQ A

Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

54 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 Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

54 hours lab

Field studies of the geology of Death Valley and the Basin and Range Province.

GEOL 19 — Geology Field Studies

2 Units

3 Units

Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

18 hours lecture

54 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 24 — Geologic Field Studies: Central California

Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

54 hours lab

Field studies of selected central California geological provinces and surrounding areas. Overnight field trips required. Trips require significant hiking.

GEOL 99 — Special Projects in Geology

2 Units

Degree Applicable, CSU

36 hours lecture

In order to offer students the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester, and depend on the particular project under consideration. Students must have an instructor's authorization 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

4 Units

(CAN GERM02)

Degree Applicable, CSU, UC

72 hours lecture

72 nours lecture

Prerequisite: Eligibility for ENGL 68

For students with no previous German. Develops the ability to converse, read, and write in German. Emphasis on oral proficiency. Includes the study of essentials of pronunciation, vocabulary, idioms, and grammatical structures along with an introduction to Germanic culture.

Degree Applicable, CSU, UC

GERM 2 — Continuing Elementary German

4 Units

(CAN GERM04)

Degree Applicable, CSU, UC

CAN GFRM SFO A

72 hours lecture Prerequisite: GERM 1 or equivalent

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 GERMO8)

Degree Applicable, CSU, UC

CAN GERM SEO B

(May be taken for option of letter grade or Pass/No Pass)

72 hours lecture

Prereauisite: GERM 2 or eauivalent

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.

HISTORY

HIST 1 — History of the United States

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility 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

(CAN HIST14) Degree Applicable, CSU, UC

CAN HIST SEO C

54 hours lecture

The rise and development of civilization from the Stone Age to 1500.

HIST 3H — History of World Civilization - Honors

3 Units (CAN HIST14) Degree Applicable, CSU, UC

CAN HIST SEO C

54 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

(CAN HIST16)

Degree Applicable, CSU, UC

CAN HIST SEO C

54 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 Degree Applicable, CSU, UC

3 Units

(CAN HIST16) CAN HIST SEO C

54 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

Degree Applicable, CSU, UC

(CAN HISTO8) CAN HIST SEO B 54 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 7H — History of the United States - Honors

3 Units (CAN HISTO8) Degree Applicable, CSU, UC

CAN HIST SEQ B

54 hours lecture

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

(CAN HIST10)

CAN HIST SEO B

54 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 (CAN HIST10)

3 Units Degree Applicable, CSU, UC

CAN HIST SEO B

54 hours lecture

Prerequisite: Acceptance into the Honors Program

Survey of American history from 1865 to the present, Designed for history, social science, or humanities majors, or for transfer students who need a year course in United States history to meet general education requirements. Satisfies the requirement for a course in American history, including the study of American institutions and ideals and the principles of State and local government as required by Title 5 of the California Administrative 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 Applicable, CSU, UC

54 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

3 Units

Degree Applicable, CSU, UC

54 hours lecture

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 Applicable, CSU, UC

54 hours lecture

Prereauisite: Eliaibility 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

Degree Applicable, CSU, UC

54 hours lecture

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 Applicable, CSU, UC

54 hours lecture

Prereauisite: Eliaibility 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 Applicable, CSU, UC

54 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 Applicable, CSU, UC

54 hours lecture

Surveys African civilization with major emphasis placed upon political social and cultural developments. African history will be traced from prehistoric times through colonialism and the emergence of independent African states in the 21st Century. The American relationship with Africa will be considered.

HIST 36 — Women in American History - Beyond the Stereotypes

3 Units

Degree Applicable, CSU, UC

54 hours lecture

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

Degree Applicable, CSU, UC

54 hours lecture

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

Degree Applicable, CSU, UC | HT 10 — Histology

54 hours lecture

Prerequisite: Eligibility 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

Degree Applicable, CSU

54 hours lecture

Advisory: Eliaibility 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

Degree Applicable, CSU

36 hours lecture

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 Proiects 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

HT 1 — Introduction to Histotechnology

1 Unit Degree Applicable

18 hours lecture

Advisory: Eliaibility 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.

3 Units | HT 2 — Scientific Basics for Histologic Technicians

3 Units Degree Applicable

54 hours lecture

Advisory: Eligibility for ENGL 68

Defines all aspects of general laboratory issues including general laboratory protocols (GLP's), safety, ethics, and terminology relative to the preparation of tissue samples.

3 Units

Degree Applicable

36 hours lecture 54 hours lab

Advisorv: ANAT 35

Microscopy, image analysis; cell structure, 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

Degree Applicable

54 hours lecture

108 hours lab

Prereauisite: 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

Degree Applicable

54 hours lecture

54 hours lab

Prerequisite: HT 12

Special stains for carbohydrates, amyloid, connective tissues, muscle and nervous tissues, including silver stains. Introduction to immunostains, in situ hybridization and microwaving techniques. Provides the opportunity to gain proficiency in skills acquired in HT 12, Beginning Histotechniques.

HT 16 — Histo/Immunohistochemistry

4 Units Degree Applicable

54 hours lecture

54 hours lab

Prerequisite: HT 12

Fundamentals of enzyme and immunological reactions as they relate to tissue staining.

HT 17 — Work Experience in Histotechnology

1 to 4 Units

Degree Applicable

(May be taken four times for credit) (May be taken for Pass/No Pass only)

75 to 300 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.

HOSPITALITY AND RESTAURANT MANAGEMENT

HRM 51 — Introduction to Hospitality

3 Units

Degree Applicable, CSU

54 hours lecture

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

Degree Applicable, CSU

27 hours lecture

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 Applicable, CSU

54 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

Degree Applicable, CSU

36 hours lecture

54 hours lab

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 56 — Management of Hospitality Personnel and Operations

3 Units

Degree Applicable, CSU

54 hours lecture

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

Degree Applicable, CSU

54 hours lecture

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 60 — Restaurant Purchasing

3 Units

Degree Applicable, CSU

54 hours lecture

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

3 Units

Degree Applicable, CSU

54 hours lecture Advisory: HRM 51

Menu development for all facets of the food service industry including retail and contract operations; emphasis on the economics of the menu and the demographics of the area. Analysis of menus with regard to limitations of the facility and staff, pricing and menu design relative to the economy and culture of the target area. Specialty menus such as ethnic, fast food, catering and various contract situations are included.

HRM 62 — Catering

3 Units

Degree Applicable, CSU

54 hours lecture

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.

HRM 64 — Hospitality Financial Accounting I

3 Units

Degree Applicable, CSU

54 hours lecture

Prereauisite: 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 66 — Hospitality Law

3 Units

Degree Applicable, CSU

54 hours lecture

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 70 — Introduction to Lodging

3 Units

Degree Applicable, CSU

54 hours lecture Advisorv: HRM 91

Introduction to 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.

HRM 91 — Work Experience in Restaurant/ Hospitality

1 to 4 Units Degree Applicable, CSU

(May be taken four times for credit)
(May be taken for Pass/No Pass only)

75 to 300 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.

HUMANITIES

HUMA 1 — The Humanities

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility 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 Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass) 54 hours lecture

Advisory: INSP 70 taken prior or concurrently or equivalent experience Fundamentals of the legal aspects of the construction industry involving homeowner, contractor and builder/developer. Includes codes, licensing, bonds. and lien laws.

INSP 67 — Reading Construction Drawings

3 Units

Degree Applicable

54 hours lecture

Fundamentals of reading construction drawings as related to architecture, construction, interior design, and related fields.

INSP 70 — Elements of Construction

3 Units

Degree Applicable, CSU

54 hours lecture

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

Degree Applicable, CSU

54 hours lecture

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 Degree Applicable

54 hours lecture

Advisory: Completion of a curriculum in building construction or equivalent experience

Construction inspection of light frame wood construction and steel structures. Topics include vertical and horizontal loads, stress analysis, framing and structural standards of lumber and steel, metallurgy and welding.

INTERIOR DESIGN

ID 100 — Fundamentals of Interior Design

3 Units
Degree Applicable, CSU

54 hours lecture

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

Degree Applicable, CSU

18 hours lecture 54 hours lab

Corequisite: ID 100 (may have been taken previously)

Studio course designed to apply concepts and theories presented in the lecture course, ID 100. It is recommended that this course be taken concurrently with the lecture class. Emphasis is placed on design process in developing solutions for design projects.

ID 120 — Interior Design Careers

2 Units

Degree Applicable, CSU

36 hours lecture

Advisory: Eligibility for ENGL 68

A survey of the Interior Design profession, industry, related occupations and work sites. The course will emphasize personal, educational, and professional qualifications required for entry into the Interior Design and related professions.

ID 130 — Applied Color and Design Theory

4 Units

Degree Applicable, CSU

54 hours lecture 54 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

Degree Applicable, CSU

72 hours lecture 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 170 — Space Planning

3 Units

Degree Applicable, CSU

36 hours lecture

54 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 and Furnishings I

3 Units

Degree Applicable, CSU

54 hours lecture

The historical relationship between the decorative arts, period furniture and interior architecture is illustrated in this overview of design heritage from antiquity through the 19th Century in France. Emphasis is placed on style development as it relates to social, economic and political influences.

ID 190 — History of Interior Architecture and Furnishings II

3 Units

Degree Applicable, CSU

54 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

Degree Applicable

54 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

2 Units

Degree Applicable, CSU

18 hours lecture

54 hours lab

Prerequisite: ID 105

Advisory: ID 130 and ID 170

Develop, analyze and apply design concepts to interior environments. Universal design, "green" design, space planning, lighting systems, interior components, architectural elements and specification writing will be integrated into research projects emphasizing problem solving approach.

Degree Applicable, CSU, UC

ID 230 — Business and Professional Practice

3 Units Degree Applicable

54 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

1 Unit

Degree Applicable

(May be taken two times for credit)

18 hours lecture

Corequisite: ID 240B and ID 120 (may have been taken previously) Advisory: ID 170 (may have been taken previously)

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 Applicable

(May be taken two times for credit) (May be taken for Pass/No Pass only)

75 hours lab

Coreauisite: 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 quaranteed, 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 and Bath Internship 2 Units Degree Applicable

(May be taken two times for credit)

150 hours lab

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 nonpaid 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 Degree Applicable, CSU

36 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

Degree Applicable, CSU

18 hours lecture

54 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

2 Units Degree Applicable

4 Units

4 Units

18 hours lecture

54 hours lab

Analysis and application of the design process to space planning, materials and finish choices, codes application, and selection of specialized equipment unique to the planning of kitchens. Design solutions for kitchens will be developed in the studio.

ID 275 — Interior Design Studio IV - Bath Design 2 Units Degree Applicable, CSU

18 hours lecture

54 hours lab

Analysis and application of the design process for space planning, specifications of materials and equipment for bathrooms.

ITALIAN

ITAL 1 — Elementary Italian Degree Applicable, CSU, UC

(CAN ITAL02)

CAN ITAL SEO A

72 hours lecture

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

(CAN ITALO4) CAN ITAL SEO A Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: ITAL 1 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

(CAN ITAL08)

CAN ITAL SEO B

72 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 Applicable, CSU, UC

(CAN ITAL10) CAN ITAL SEO B

(May be taken for option of letter grade or Pass/No Pass)

72 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

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass)

72 hours lecture

Prereauisite: ITAL 4 or eauivalent

Emphasis is placed on increased facility to read and write advanced Italian. Cultural insights are developed through the study of various Italian literary types.

ITAL 6 — Continuing Advanced Italian

4 Units

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 72 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 52 — Conversational Italian

3 Units

Degree Applicable (May be taken for option of letter grade or Pass/No Pass)

54 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 Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 54 hours lecture

Prerequisite: ITAL 2 or ITAL 52 or equivalent

Development of intermediate Italian conversational skills. Emphasis on collaborative activities and practical use of the language. Extensive exposure to Italian culture. Grammar is presented in context.

ITAL 54 — Advanced Conversational Italian

3 Units

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 54 hours lecture

Prerequisite: ITAL 3 or ITAL 53 or equivalent

Development of advanced Italian conversational skills. Emphasis on collaborative activities and practical use of the language. Extensive 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 Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 54 hours lecture

Italian culture through cinema from 1900 through analysis of the aesthetic, literary, artistic and philosophical movements in Italy as reflected in the works of the Italian film makers and writers. Lecture and class discussion to be conducted in English; film presentation with English subtitles.

JAPANESE

JAPN 1 — Elementary Japanese

4 Units

(CAN JAPNO2)

Degree Applicable, CSU, UC

CAN JAPN SEQ A

72 hours lecture

Intended for students without previous exposure to Japanese. Begins to develop the ability to converse, read, and write in Japanese. Includes the study of essentials of pronunciation, vocabulary, idioms, and grammatical structures. Introduction to Japanese culture.

JAPN 2 — Continuing Elementary Japanese

4 Units

(CAN JAPN04) Degree Applicable, CSU, UC

CAN JAPN SEQ A

72 hours lecture

Prerequisite: JAPN 1 or equivalent

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

Degree Applicable, CSU, UC

(CAN JAPN08) CAN JAPN SFO B

72 hours lecture

Prerequisite: JAPN 2 or equivalent

Continued development of Kanii (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

(CAN JAPN10)

Degree Applicable, CSU, UC

CAN JAPN SEO B

72 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

4 Units

Degree Applicable, CSU, UC

72 hours lecture

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 53 — Conversational Japanese

3 Units

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass)

54 hours lecture

Prereauisite: JAPN 2 or eauivalent

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

JOUR 100 — Mass Media and Society

3 Units

(CAN JOUR04) Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass)

54 hours lecture

Prereauisite: 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.

4 Units | JOUR 101 — Beginning News Writing

3 Units

(CAN JOUR02)

Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass)

54 hours lecture

Prereauisite: 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

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass)

54 hours lecture

Prerequisite: JOUR 101 or JOUR 1A

Development of intermediate news reporting techniques combined with the composition of complex journalistic writing forms.

JOUR 103 — Working on the Newspaper

3 Units

Degree Applicable

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

18 hours lecture

108 hours lab

Practical experience preparing the college newspaper. Duties may include reporting, story writing, photography, layout and design and copy editing. Students who repeat this class will improve skills through further instruction and practice.

JOUR 104 — Newspaper Layout and Design

3 Units

Degree Applicable

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

54 hours lab

An introduction to newspaper design using desktop publishing techniques. Includes hands-on experience publishing the student newspaper. Students who repeat this course will improve skills through further instruction and practice.

JOUR 105 — Editor Training

1 Unit

Degree Applicable

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

54 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

Degree Applicable, CSU

(May be taken two times for credit)

(May be taken for option of letter grade or Pass/No Pass)

54 hours lecture

36 hours lab

Coreauisite: COMP 60 (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 photoiournalism, 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 Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

54 hours lecture

Advisory: ENGL 1A

Studies the role mass media plays in the social, political, and economic integration of minorities, cultures, women, and gavs and lesbians into American society. Examines ways that mass media impacts public attitudes and behaviors.

JOUR 108 — Writing for Public Relations

3 Units

Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass) 54 hours lecture

Prerequisite: JOUR 101 or JOUR 1A

An introduction to public relations writing including news releases, fact sheets, feature stories, institutional publications, and newsletters. The relationships between public relations, the mass media, and society will be explored.

JOUR 109 — Public Relations Internship

3 Units Degree Applicable

(May be taken two times for credit)

(May be taken for option of letter grade or Pass/No Pass)

225 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 Degree Applicable

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

54 hours lab

Prereauisite: 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.

JOUR 111 — Broadcast News Writing

3 Units

Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass) 54 hours lecture

Prerequisite: IOUR 1A or IOUR 101

Intensive news gathering and writing for radio and television. Newscast planning, story organization, and functions of a broadcast newsroom are explored. Emphasis on assignments for both audio and video tape media. Lecture and discussion of issues and responsibilities confronting broadcast journalists including ethics and changing technology.

JOUR 112 — Work Experience in Journalism

3 to 4 Units

Not Degree Applicable

(May be taken four times for credit) (May be taken for Pass/No Pass only)

225 to 300 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

Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass) 72 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 Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

72 hours lecture

Prerequisite: LATN 1

Advisory: Eliaibility for READ 90 or eliaibility 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.

LEADERSHIP

LEAD 55 — Exploring Leadership

3 Units

Degree Applicable, CSU

54 hours lecture

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.

LEARNING ASSISTANCE SERVICES

LERN 48 — Basic Math Skills Review

3 Units

Not Degree Applicable

(May be taken for Pass/No Pass only)

54 hours lecture

24 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.

LERN 49 — Math Skills Review

3 Units

Not Degree Applicable

(May be taken for Pass/No Pass only)

54 hours lecture

24 hours lab

Prereauisite: LERN 48 or passina 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.

LERN 61 — Skills Development Laboratory

1 Unit

Not Degree Applicable

(May be taken for Pass/No Pass only)

54 hours lab

Offers individualized material in the following subjects: reading comprehension, reading acceleration, vocabulary, spelling, elementary math, algebra review, English grammar, study techniques (note-taking, test-preparation, test-taking). Students may register for one unit through the first half of the term. One unit requires a total expenditure of 48 hours in class.

LERN 62 — Skills Development Laboratory

2 Units

Not Degree Applicable

(May be taken two times for credit)
(May be taken for Pass/No Pass only)

108 hours lab

Offers individualized material in the following subjects: reading comprehension, reading acceleration, vocabulary, spelling, elementary math, algebra review, English grammar, study techniques (note-taking, test-preparation, test-taking). Students may register for two units through the first half of the term. Two units require a total expenditure of 96 hours in class. Students who repeat will achieve further improvement in the skills previously tested or work on the development of other skills.

LERN 81 — Improving Writing Skills

3 Units

Not Degree Applicable

(May be taken for Pass/No Pass only)

54 hours lecture

24 hours lab

Offers assistance to students who wish to improve prewriting, writing, editing, and revising skills. Provides instruction in content and structure of sentences, paragraphs, and essay; emphasizes development in writing through the integration of grammar and critical thinking.

LIBRARY AND INSTRUCTIONAL MEDIA

LIBR 1 — Information Resources and Research Methods 3 Units
Not Degree Applicable, CSU, UC

54 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.

LIBR 1A — Introduction to Library Research

Not Degree Applicable, CSU

(May be taken for Pass/No Pass only)

18 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

1 Unit

Not Degree Applicable

(May be taken for Pass/No Pass only)

18 hours lecture

Advisory: Eligibility for ENGL 68

Research skills using electronic resources for lifelong information competency. Topics include databases, electronic books, search strategies, citation, copyright, and plagiarism.

LITERATURE

LIT 1 — Early American Literature

3 Units

(CAN ENGL14)

Degree Applicable, CSU, UC

CAN ENGL SEQ C

54 hours lecture
Prereauisite: 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 Applicable, CSU, UC

(CAN ENGL16) CAN ENGL SEQ C 54 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

Degree Applicable, CSU, UC

54 hours lecture

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 Degree Applicable, CSU, UC

(CAN ENGLO8) CAN ENGL SEQ B

54 hours lecture

Prerequisite: ENGL 1A

A chronological study of major works from Beowulf and the Anglo-Saxon period to the mid-18th century.

LIT 6B — Survey of English Literature

3 Units Degree Applicable, CSU, UC

(CAN ENGL10) CAN ENGL SEQ B

(May be taken for option of letter grade or Pass/No Pass)

54 hours lecture

Prereauisite: 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 Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass)

54 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

Degree Applicable, CSU, UC

54 hours lecture
Prereauisite: 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

Degree Applicable, CSU, UC

54 hours lecture

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

(CAN ENGL20)

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: ENGL 1A

Examines the significant poetry of England and America in the 20th century, with the major emphasis on contemporary poems.

LIT 15 — Introduction to Cinema

3 Units

3 Units

Degree Applicable, CSU, UC

54 hours lecture

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 Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass)

54 hours lecture Prerequisite: ENGL 1A

Surveys Eighteenth through Twenty-first 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

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass)

54 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

3 Units

Degree Applicable, CSU, UC

54 hours lecture Prereauisite: 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 Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass)

54 hours lecture Prereauisite: 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

Degree Applicable, CSU, UC

54 hours lecture

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

3 Units

Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

54 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

Degree Applicable, CSU, UC

54 hours lecture Prerequisite: FNGL 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 Degree Applicable, CSU, UC

54 hours lecture Prereauisite: 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

MFG 11 — Manufacturing Processes I

2 Units

Degree Applicable, CSU

18 hours lecture

54 hours lab

Manual and computerized manufacturing, manual lathes and mills, tool nomenclature and Computerized Numerical Control (CNC) operations. Operation of CNC machines.

MFG 12 — Manufacturing Processes II

2 Units

Degree Applicable, CSU

18 hours lecture 54 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.

MFG 15 — AutoCAD 2D

2 Units Degree Applicable

18 hours lecture

54 hours lab

Development of two dimensional AutoCAD mechanical screen drawings. as related to Computer Integrated Manufacturing (CIM), and Computer Aided Machines (CAM). Completed drawings will be translated into DXF and/or IGES files and then transferred to various CAD/CAM systems.

MFG 17 — 3-D CAD Mechanical Modeling

2 Units

Degree Applicable

18 hours lecture

54 hours lab

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.

MFG 19 — Parametric Solid Modeling for Manufacturing 2 Units

Degree Applicable

18 hours lecture

54 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.

MFG 25 — Advanced Parametric Solid Modeling for Manufacturing

2 Units

Degree Applicable

18 hours lecture

54 hours lab

Advisory: MFG 19 or MFG 27 taken previously

Advanced instruction in concepts, practice, and development of featurebased 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.

MFG 27 — Autodesk Inventor

2 Units

Degree Applicable

18 hours lecture

54 hours lab

Advisorv: 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.

MFG 38 — MasterCAM I

2 Units

Degree Applicable, CSU

18 hours lecture

54 hours lab

Use MasterCAM software to create wire-frame part geometry, add tool paths and create CNC code for CNC mills and CNC lathes.

MFG 38B — Advanced MasterCAM

2 Units

Degree Applicable, CSU

18 hours lecture 54 hours lab Advisory: MFG 38

Use MasterCAM software to create wire-frame 3D/multi-axis part geometry, add tool paths, and create CNC code for CNC mills and CNC lathes.

MFG 39 — SurfCAM I

2 Units

Degree Applicable, CSU

18 hours lecture 54 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.

MFG 39B — SurfCAM II

2 Units

Degree Applicable, CSU

18 hours lecture 54 hours lab Advisory: MFG 39

Use SurfCAM software to create part geometry for three-axis milling and lathe parts from project drawings and CAD files. Tool paths will be added and the completed file will be post-processed and downloaded to CNC machine. Students will set up the required cutting tools and machine the part.

MFG 58 — Blueprint Reading

2 Units

Degree Applicable

36 hours lecture Advisory: MFG 70

Blueprint reading as a means of interpreting and visualizing drawings used in manufacturing. Includes the basic print form, title block, notes, materials, machining specifications, application of principles to CNC, welding, and sheet metal.

MFG 70 — Technical Math - Manufacturing

2 Units

Degree Applicable, CSU

36 hours lecture

Applications of mathematical principles in manufacturing. Includes arithmetic calculations, measurement, use of formulas, geometry, and trigonometry.

MFG 74 — Manufacturing Technology Work Experience 1 Unit Not Degree Applicable

(May be taken for Pass/No Pass only)

75 hours lab

Prerequisite: Compliance with work experience regulations as designated in the College catalog. Completion of MFG 11, 12, 58, 70 and 85. 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 Operation

Degree Applicable, CSU

18 hours lecture

54 hours lab

Theory and practice in manually developing CNC programs. Methods of transmitting data to CNC machines and physical set-up and operation of CNC equipment.

MFG 99 — Special Projects in Machining

.5 to 2 Units

Not Degree Applicable

(May be taken four times for credit)

4.5 to 18 hours lecture

12 to 48 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.

MATHEMATICS

MATH 10 — Math Enhancement

0 Unit Not Degree Applicable

(May be taken four times for credit)

18 hours activity

Linked with a corresponding math lecture section, this course provides hands-on activities and mathematical applications designed to enhance student success and abilities in the linked course. Supplemental learning activities such as computer projects, drill and practice, study skills development, group work and student presentations.

MATH 50 — Pre-Algebra

3 Units

Not Degree Applicable

54 hours lecture

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

Not Degree Applicable

72 hours lecture

Prerequisite: MATH 50 or qualifying score on current department placement test

Basic algebra, equivalent to first year high school algebra. Includes operations with signed numbers and algebraic expressions, linear equations and inequalities, polynomial operations and factoring, rational 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.

2 Units | MATH 51A — Elementary Algebra - First Half

3 Units

3 Units

Not Degree Applicable

54 hours lecture

Prerequisite: MATH 50 or qualifying score on current department placement test

Contains the first half of elementary algebra. Operations with signed numbers and algebraic expressions; linear equations and inequalities; polynomial operations and factoring; rational expressions and equations; ratios, proportions, formulas, and variation; applications.

MATH 51B — Elementary Algebra - Second Half

Not Degree Applicable

54 hours lecture

Prereauisite: MATH 51A

Contains the second half of Elementary Algebra. Includes: Cartesian Coordinate System, slope/graphing/equations of lines, solving systems of linear equations, algebraic operations with radicals, solving equations with radicals, solving second degree equations using methods of completing the square and the quadratic formula. Students must complete both MATH 51A and MATH 51B to have taken the equivalent of Elementary Algebra (MATH 51).

MATH 61 — Plane Geometry

3 Units

Degree Applicable

54 hours lecture

Prerequisite: MATH 51 or MATH 51B or MATH 52 or qualifying score on current department placement test

Points, lines, polygons and circles; their relationships to each other on plane surfaces; congruence, similarity and area. Introduction to inductive, deductive and indirect reasoning. The formal proof is introduced and practiced throughout the course. Stress is placed on accuracy of statement as a background for analytical and scientific reasoning.

MATH 71 — Intermediate Algebra

5 Units Degree Applicable

90 hours lecture

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

3 Units Degree Applicable

54 hours lecture

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 71B — Intermediate Algebra - Second Half

3 Units

Degree Applicable

54 hours lecture

Prerequisite: 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 MATH 71B to have taken the equivalent of MATH 71A, Intermediate Algebra.

MATH 71X — Practical Intermediate Algebra

5 Units Degree Applicable

90 hours lecture

Prerequisite: Math 51 or Math 51B or qualifying score on current department placement test.

Intermediate Algebra for the non-calculus path. Recommended for Humanities, Social Sciences, and Applied Sciences. Recommended prerequisite for Math 100, Math 110, and Math 120. Polynomial, rational, radical, exponential and logarithmic expressions are simplified, equations solved, and real-world phenomena are modeled using least-squares methods, functions graphed and analyzed; linear and nonlinear systems of equations and inequalities; sequences, series, and probabilities; data gathering instruments are used to sample data for curve fitting.

MATH 96 — Strategies for Math Success

1 Unit Not Degree Applicable

(May be taken for Pass/No Pass only)

18 hours lecture

Learning tools, plans and proper perspectives for math learning improvement. Use of natural intelligence strengths to simplify and optimize your mathematical educational experience. Overcome test anxiety and enhance testing abilities. Course is appropriate for all levels of mathematics students.

MATH 99 — Special Projects in Mathematics

2 Units Degree Applicable, CSU

(May be taken four times for credit)

36 hours lecture

In order to offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special 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 100 — Survey of College Mathematics (CAN MATH02)

cs 3 Units
Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: (MATH 71 or MATH 71X or MATH 71B or qualifying score on current department placement test) and (MATH 61 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 Applicable, CSU, UC

(CAN STATO2) 54 hours lecture

Prerequisite: MATH 71 or MATH 71X or MATH 71B 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 (CAN STATO2) Degree

ors 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: (MATH 71 or MATH 71X or MATH 71B 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

(CAN MATH12) Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: MATH 71 or MATH 71X or MATH 71B 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

4 Units

(CAN MATH10) Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: MATH 71 or MATH 71B or qualifying score on 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

Degree Applicable, CSU, UC

(CAN MATH34)

72 hours lecture 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

(CAN MATH08)

Degree Applicable, CSU

54 hours lecture

Prerequisite: MATH 71 or 71B or qualifying score on current department placement test AND Math 61 or passing score on current geometry competency test.

Trigonometry functions and inverse trigonometric functions and the graphical representations of these functions; solutions to right and oblique triangles with laws of sines and cosines; vectors; solutions to trigonometric equations; identities; polar coordinates; complex numbers and DeMoiyre's Theorem.

MATH 160 — Precalculus Mathematics

4 Units

(CAN MATH16)

Degree Applicable, CSU, UC

72 hours lecture

Prerequisite: MATH 150, or qualifying score on current department placement test.

Prepares students for the calculus sequence. Real-valued functions, including algebraic, trigonometric, exponential, and logarithmic functions. Also includes proofs, inequalities, introductory analytical geometry, series, sequences, and vectors.

MATH 180 — Calculus and Analytic Geometry

4 Units

(CAN MATH 18)

Degree Applicable, CSU, UC

CAN MATH SEQ B

72 hours lecture

Prerequisite: MATH 160 or qualifying score on current department placement test

Functions, curve sketching, limits, the derivative, rules for differentiation of algebraic and trigonometric functions, applications of the derivative. Indefinite and definite integrals, numerical integration, and calculus with exponential. logarithmic, and other transcendental functions.

MATH 181 — Calculus and Analytic Geometry

5 Units

(CAN MATH20)

Degree Applicable, CSU, UC

CAN MATH SEQ B

90 hours lecture

Prereauisite: MATH 180

Applications of integration, techniques of integration; indeterminate forms and improper integrals; infinite series; plane curves and parametric equations; vectors in two and three space and their applications.

MATH 210 — Concepts of Elementary Mathematics

3 Units

Degree Applicable, CSU

54 hours lecture

Prerequisite: MATH 100

Structure and theory of the mathematics that constitute the core of K-8 mathematics curriculum. Concepts include the essential elements of a number system; fundamental understanding of operations upon whole numbers, rational numbers and integers; higher-order critical thinking skills and strategies in the area of problem solving.

MATH 245 — A Transition to Advanced Mathematics 3 Units Degree Applicable, CSU

54 hours lecture

Prerequisite: 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

Degree Applicable, CSU, UC

(CAN MATH22) CAN MATH SEQ C

72 hours lecture

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.

MATH 285 — Linear Algebra and Differential Equations 5 Units (CAN MATH24) Degree Applicable, CSU, UC

90 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.

MEDICAL TERMINOLOGY

MEDI 90 — Medical Terminology

3 Units Degree Applicable, CSU

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54 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.

MENTAL HEALTH/PSYCHIATRIC TECHNICIAN

MENT 40 — Introduction to Interviewing and Counseling 3 Units Degree Applicable

54 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 MENT 40 and PSYC 40.

MENT 56 — Medical-Surgical Nursing for Psychiatric Technicians

9 Units

Degree Applicable

162 hours lecture

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

4 Units

Degree Applicable

(May be taken for Pass/No Pass only)

216 hours lab

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, fluids, and electrolytes. Psychosocial aspects of care including interdependence, role function, self concept, care of aged, and cultural aspects. Application of nursing skills for those with medical-surgical problems and special needs. Calculation and administration of medications. Roy?s Adaptation Model serves as the conceptual framework.

MENT 58D — Advanced Medical-Surgical Nursing and Pharmacology for PsychiatricTechnicians

Degree Applicable

4 Units

72 hours lecture

Prerequisite: MENT 56, MENT 56L

Corequisite: MENT 58L

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

1.5 Units

Degree Applicable

(May be taken for Pass/No Pass only)

90 hours lab

Application of nursing skills to patients with medical/surgical disorders. Administration of medications.

MENT 70 — Introduction to Psychiatric Technology

1.5 Units Degree Applicable

27 hours lecture

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.

MENT 70L — Introduction to Psychiatric **Technology Clinical Technicians**

Degree Applicable

2 Units

(May be taken for Pass/No Pass only)

108 hours lab

Corequisite: 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 Disabled Person

7 Units

Degree Applicable

126 hours lecture

Prerequisite: MENT 56, MENT 70

Coreauisite: 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 5 Units Disabled Person - Clinical

Degree Applicable

(May be taken for Pass/No Pass only)

288 hours lab Corequisite: MENT 72

Application of skills needed to teach, train, and provide care for the developmentally disabled person. Calculation and administration of medication.

MENT 73L — Psychiatric Nursing for **Psychiatric Technicians Clinical**

Degree Applicable

5 Units

(May be taken for Pass/No Pass only)

288 hours lab

Corequisite: MENT 73T

Clinical instruction in the treatment of mental disabilities and substance abuse.

MENT 73T — Psychiatric Nursing for **Psychiatric Technicians**

Degree Applicable

108 hours lecture

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

2 UnitsTechnology Degree Applicable

(May be taken for Pass/No Pass only)

150 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 Degree Applicable, CSU, UC

54 hours lecture

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**

Degree Applicable, CSU, UC

1 Unit

54 hours lab

Coreauisite: 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 Applicable, CSU, UC

54 hours lecture

108 hours lab

Prerequisite: CHEM 10 or CHEM 40. One year of college chemistry is recommended for all transfer majors. CHEM 50/51 seauence 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

Degree Applicable, CSU, UC

54 hours lecture

54 hours lab

Prerequisite: CHEM 10 or CHEM 40

Fundamental concepts of microbiology: viruses, bacteria, fungi, protozoa and parasitic worms. Covers microbial classification, physiology and genetics; host-parasite interaction; control of disease-causing agents; public health microbiology; immune response and immune disorders. Important diseases of humans and other animals are surveyed. Laboratory exercises include experiments and observation on the morphology, physiology, and control of microorganisms.

MUSIC

MUS 1 — Concert Music

1 Unit

Degree Applicable, CSU

(May be taken four times for credit) (May be taken for Pass/No Pass only)

18 hours lecture

A concert experience in listening to recitals, media presentations, and musical demonstrations and lectures given by faculty, artists, and students. Attendance at and reports on additional live concerts may be required. Students who repeat this course will improve skills through further instruction and practice. Course open to all students.

MUS 2 — Music Theory

3 Units

Degree Applicable, CSU, UC

54 hours lecture Coreauisite: MUS 5A

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

Degree Applicable, CSU, UC

3 Units

54 hours lecture

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 Degree Applicable, CSU, UC

54 hours lecture

Prereauisite: 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

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prereauisite: 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

1 Unit

Degree Applicable, CSU, UC

18 hours lecture 18 hours lab Coreauisite: 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

Degree Applicable, CSU, UC

18 hours lecture 18 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

2 Units

Degree Applicable, CSU, UC

36 hours lecture 18 hours lab Prerequisite: MUS 3A Corequisite: MUS 3B

Advanced training in sight singing, aural perception and dictation, including soprano-bass dictation of modulating Bach-style chorales and imitative counterpoint. Students will be aided by the use of a computer lab, and documented lab time outside of class will be required for successful course completion.

MUS 6B — Musicianship - Advanced

2 Units

Degree Applicable, CSU, UC | 54 hours lecture

36 hours lecture

18 hours lab Prereauisite: 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

Degree Applicable, CSU, UC

54 hours lecture

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.

1 Unit | MUS 9 — Introduction to Music Technology

3 Units

Degree Applicable, CSU

(May be taken for Pass/No Pass only)

36 hours lecture

36 hours lab

Advisory: Eliaibility 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.

MUS 11A — Music Literature Survey

3 Units Degree Applicable, CSU, UC

54 hours lecture

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

Degree Applicable, CSU, UC

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

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 54 hours lecture

Advisory: Eligibility for ENGL 68

3 Units 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

3 Units

Degree Applicable, CSU, UC

54 hours lecture

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 — Music Appreciation - Honors

3 Units

Degree Applicable, CSU, UC

54 hours lecture

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

Degree Applicable, CSU, UC

54 hours lecture

Advisory: Eliaibility 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

3 Units

Degree Applicable, CSU

54 hours lecture

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

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 54 hours lecture

Historical survey of rock music from its beginnings in the early 50's to the present. Rhythm and 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

Degree Applicable, CSU, UC

(May be taken four times for credit)

18 hours lecture

108 hours lab

(CAN MUS14)

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

(CAN MUS22)

Degree Applicable, CSU, UC

(May be taken four times for credit)

18 hours lecture

18 hours lab

Reading and performance of piano literature with emphasis on scales. chord progressions, and sight reading. Students who repeat this course will improve skills through further instruction and practice. No prior musical experience is required.

MUS 17B — Intermediate Class Piano

1 Unit

1 Unit

Degree Applicable, CSU, UC (CAN MUS24) (May be taken four times for credit)

18 hours lecture

18 hours lab

Advisory: MUS 17A or professor approval

Reading and performances of piano literature with further emphasis on scales, chord progressions, and sight reading. Students who repeat this course will improve skills through further instruction and practice.

MUS 18 — Advanced Class Piano

Degree Applicable, CSU, UC

(May be taken four times for credit)

18 hours lecture

18 hours lab

Advisory: MUS 17B

The style, technique and interpretation of piano music from the 17th century to the present is studied collectively and individually. Sight reading, improvisation and ensemble playing will be emphasized. Students who repeat this course will improve skills through further instruction and practice. Recommended for music majors.

MUS 19 — Class Organ

1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

18 hours lecture

18 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 Degree Applicable, CSU, UC

(May be taken four times for credit)

18 hours lecture

18 hours lab

Group instruction on the basics of singing with special emphasis on breath control and its importance in the singing of the musical line. 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

Degree Applicable, CSU, UC

(May be taken four times for credit)

18 hours lecture

18 hours lab

Advisory: 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

Degree Applicable, CSU, UC

(May be taken four times for credit)

18 hours lecture

18 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

Degree Applicable, CSU

(May be taken four times for credit)

18 hours lecture

18 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

Degree Applicable, CSU, UC

(May be taken four times for credit)

18 hours lecture

18 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

Degree Applicable, CSU, UC

(May be taken four times for credit)

18 hours lecture

18 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.

Course Descriptions

MUS 24 — Advanced Class Guitar

1 Unit | M

Degree Applicable, CSU, UC

(May be taken four times for credit)

18 hours lecture

18 hours lab

Advisorv: 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

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

18 hours lecture

18 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 Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

18 hours lecture

18 hours lab

Advisory: MUS 2 or MUS 7 and/or audition by professor and MUS 25A or eauiyalent 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

Degree Applicable, CSU, UC

(May be taken four times for credit)

108 hours lab

Coreauisite: MUS 49 and admission by audition

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

Degree Applicable, CSU, UC

(May be taken four times for credit)

54 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 guest 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

Degree Applicable, CSU, UC

(May be taken four times for credit)

54 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

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

108 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

Degree Applicable, CSU, UC

(May be taken four times for credit)

54 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 — Womens Vocal Ensemble

2 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

108 hours lab

Prereauisite: 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

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

108 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 Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

18 hours lecture

18 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

Degree Applicable, CSU

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

108 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)

54 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 Degree Applicable, CSU, UC

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 162 hours lab

Prerequisite: Admission by audition

A vocal ensemble appropriate for beginning and intermediate jazz singers. This group will perform vocal jazz charts accompanied by a rhythm section, as well as a cappella. Basics of singing jazz, vocal improvisation, group singing techniques, and microphone techniques. Ensemble will perform locally and/or at vocal jazz festivals. Attendance at performances and competitions is required. Students who repeat this course will improve skills through further instruction and practice.

MUS 45 — Chamber Singers

3 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

162 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

Degree Applicable, CSU, UC

(May be taken four times for credit) (May be taken for Pass/No Pass only)

36 hours lecture

36 hours lab

Prereauisite: 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

Degree Applicable, CSU, UC

(May be taken four times for credit) (May be taken for Pass/No Pass only)

162 hours lab

Prerequisite: Admission by audition

An instrumental ensemble dealing with all types of popular music and jazz. Preference will be given to performers playing more than one instrument. Students who repeat this course will improve skills through further instruction and practice.

MUS 48 — Men's Vocal Ensemble

2 Units

3 Units

Degree Applicable, CSU, UC

(May be taken four times for credit) (May be taken for Pass/No Pass only)

108 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

Degree Applicable, CSU, UC

(May be taken four times for credit) 162 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 50 — Jazz Improvisation and Performance Choir 3 Units Degree Applicable, CSU

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

162 hours lab

An advanced vocal jazz choir. This choir will perform advanced vocal jazz arrangements and students will study the historical, theoretical and technical aspects of both instrumental and vocal jazz. Advanced solo singing techniques and scat singing will be rehearsed and the choir will perform at least one concert each semester at Mt. SAC along with attending and performing at a variety of musical venues. This class will have the opportunity to work with guest artists and make CD recordings. Attendance is required at assigned public performances. Students who repeat this course will improve skills through further instruction and practice. Admission by audition.

MUS 99 — Special Projects in Music

1 to 3 Units

Degree Applicable

(May be taken four times for credit)

54 to 162 hours lab

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

NURS 1A — The Nursing Process I

4.75 Units

Degree Applicable, CSU

45 hours lecture

126 hours lab

Prerequisite: Admission to Nursing Program; ANAT 35 or equivalent and ANAT 36 or equivalent, or ANAT 10A or equivalent and ANAT 10B or equivalent, and MICR 22 or equivalent, or MICR 1 or equivalent, and ENGL 1A or equivalent

Coreauisite: 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 Units

Degree Applicable, CSU

45 hours lecture

126 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

Degree Applicable, CSU

36 hours lecture

Prerequisite: Admission to Nursing Program and eligibility for MATH 51 Corequisite: NURS 1A

The ethical and legal responsibilities in the administration of medications. Application of mathematical concepts, the Nursing Process, and drug therapy to the administration of fluids and medications.

3.5 Units NURS 3 — Medical-Surgical Nursing: Locomotion/Sensation/ Integument/Oncolog

Degree Applicable, CSU

30 hours lecture 99 hours lab

Prerequisite: NURS 1B and NURS 2 or Advanced Placement

Concepts of nursing assessment and intervention with application to clients with integumentary and immunologic disorders as well as dysfunctions of sensation and locomotion. An introduction to oncology nursing is included. The Betty Neuman Model serves as the conceptual framework.

NURS 4 — Maternity Nursing

3 Units

Degree Applicable, CSU

27 hours lecture 81 hours lab

Prereauisite: 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

Degree Applicable, CSU

27 hours lecture

81 hours lab

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

Degree Applicable, CSU

27 hours lecture

81 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

7 Units

Degree Applicable, CSU

60 hours lecture 198 hours lab

Prerequisite: 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

Degree Applicable, CSU

45 hours lecture

144 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

5 Units

Degree Applicable, CSU

18 hours lecture

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 4 Units Nursing: Integration/Regulation

Degree Applicable, CSU

45 hours lecture

96 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

Degree Applicable, CSU

(May be taken for Pass/No Pass only)

112 hours lab

Advisory: 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 1 to 4 Units

Not Degree Applicable

(May be taken four times for credit) (May be taken for Pass/No Pass only)

75 to 300 hours lab

Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog. Current satisfactory status in the Nursing **Program**

On-the-job experience for nursing students in an approved work setting related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required 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

Degree Applicable

(May be taken for Pass/No Pass only)

36 hours lecture

54 hours lab

Prereauisite: Advanced Placement: PT (Psychiatric Technician) or LVN (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 eauivalent, or MICR 1 or eauivalent, and ENGL 1A or eauivalent, and PSYC 1A or eauivalent, and CHLD 10 or eauivalent 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

2 Units

Not Degree Applicable

(May be taken four times for credit) (May be taken for Pass/No Pass only)

108 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 Degree Applicable, CSU

54 hours lecture

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 Food with Lab

3 Units

Degree Applicable, CSU

(CAN FCS08) 36 hours lecture

54 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

(CAN FCS02)

Degree Applicable, CSU, UC

3 Units

54 hours lecture

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 — Principles of Nutrition - Honors (CAN FCSO2)

3 Units

Degree Applicable, CSU, UC

54 hours lecture

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

Degree Applicable, CSU, UC

54 hours lecture

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

Degree Applicable, CSU

54 hours lecture

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 Applicable

36 hours lecture

54 hours lab

Advisory: NF 20 or food preparation experience

Instruction in the skills necessary for more advanced methods of food preparation. Topics include garde manger, baking and pastry, and international cuisine, techniques of healthy cooking, and vegetarian cuisine with emphasis placed on knife skills, garnishing, plate presentation and creative decorating.

NF 62 — Meal Management

3 Units

Degree Applicable, CSU

36 hours lecture

54 hours lab

Advisory: NF 20 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

Not Degree Applicable (May be taken for option of letter grade or Pass/No Pass)

12 hours lecture

18 hours lab

Principles and techniques of healthful food preparation emphasizing the reduction of fat, saturated fat, trans fat, cholesterol, and sodium, and the increase of fiber and nutrients in foods. The course includes laboratory experience in preparation of health promoting foods and meals.

NF 82 — Vegetarian Cuisine

1 Unit Not Degree Applicable

(May be taken for option of letter grade or Pass/No Pass)

12 hours lecture

18 hours lab

Principles and techniques of vegetarian food preparation and investigation of issues related to vegetarian eating practices. Includes laboratory experience in preparation of vegetarian foods and meals.

OCEANOGRAPHY

OCEA 10 — Introduction to Oceanography

3 Units

Degree Applicable, CSU, UC

54 hours lecture

An introduction to the ocean environment including the geologic, chemical, physical, and ecological aspects of the field. Topics include plate tectonics, currents, waves, tides, shores and human impact on the oceans. Field trips included.

OCEA 10H — Introduction to Oceanography - Honors 3 Units Degree Applicable, CSU, UC

54 hours lecture

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 Degree Applicable, CSU, UC

54 hours lab

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

(CAN PHILO6)

Degree Applicable, CSU, UC

54 hours lecture

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

Degree Applicable, CSU, UC

54 hours lecture

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 (CAN PHIL02)

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

An exploration of basic issues in ethics, social philosophy, metaphysics, theories of knowledge and contemporary philosophies of life.

Course Descriptions

PHIL 5H — Introduction to Philosophy - Honors 3 Units

(CAN PHILO2)

Degree Applicable, CSU, UC

54 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

Degree Applicable, CSU, UC

54 hours lecture

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

3 Units

Degree Applicable, CSU, UC

54 hours lecture Prereauisite: ENGL 1A

The function and use of formal and informal logic, argument, critical evaluation, and language in written composition.

PHIL 12 — Ethics

3 Units

(CAN PHILO4) Degree Applicable, CSU, UC

54 hours lecture

Prereauisite: Eliaibility 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

Degree Applicable, CSU, UC

(CAN PHILO4) 54 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

3 Units

Degree Applicable, CSU, UC

54 hours lecture

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

3 Units

Degree Applicable, CSU, UC

54 hours lecture

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

Degree Applicable, CSU, UC

CAN PHIL SFO A

54 hours lecture

Examines the major western philosophers and philosophical ideas from pre-Socratic times to the Renaissance.

PHIL 20B — History of Western Philosophy

3 Units

Degree Applicable, CSU, UC

CAN PHIL SEO A

54 hours lecture

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 four times for credit) (May be taken for Pass/No Pass only)

54 hours lab

Corequisite: PHOT 10 (may have been taken previously)

Extended black and white laboratory experiences to supplement those available in the regular program. Provides students the opportunity to pursue more advanced projects and experiments. Students who repeat this course will improve skills through further instruction and practice.

PHOT 2 — Laboratory Studies: Color Photography 1 Unit

Not Degree Applicable

(May be taken four times for credit) (May be taken for Pass/No Pass only)

54 hours lab

Corequisite: PHOT 20 (may have been taken previously)

Extended color laboratory experiences to supplement those available in the regular program. Provides students the opportunity to pursue more advanced projects and experiments. Students who repeat this course will improve skills through further instruction and practice.

PHOT 4 — Digital Cameras and Composition

1 Unit

Not Degree Applicable

(May be taken for option of letter grade or Pass/No Pass)

18 hours lecture

Use of digital cameras, lenses, filters, and exposure to compose quality photographs. Shooting assignments are given for analysis in class. Camera will be required after the second week.

PHOT 10 — Basic Digital and Film Photography

3 Units

Degree Applicable, CSU, UC

36 hours lecture

54 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 Applicable

36 hours lecture

108 hours lab

Prereauisite: PHOT 10

Exploration of current professional photographic techniques. Exploration of current Includes studio and field assignments related to problems encountered in professional photography. Topics include but are not limited to medium and large format film and digital cameras and computer basics for professional photographers. Students must furnish SLR camera.

PHOT 12 — Photographic Alternatives

3 Units

Degree Applicable, CSU, UC

36 hours lecture Not Degree Applicable

54 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 14 — Commercial Lighting

4 Units Degree Applicable

(May be taken four times for credit)

36 hours lecture

108 hours lab

Prereauisite: PHOT 10

Advisory: PHOT 11

Use of studio equipment, and studio and location lighting techniques used in all aspects of commercial photographic applications. Students must furnish adjustable SLR camera.

PHOT 15 — History of Photography

3 Units

Degree Applicable, CSU, UC

54 hours lecture

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 Degree Applicable

36 hours lecture 54 hours lab Prerequisite: PHOT 11

Illustrative, editorial and advertising fashion photography. Studio and location production in both black and white and color are emphasized. Aspects of business operation and working with clients are explored.

PHOT 17 — Photocommunication

3 Units Degree Applicable

36 hours lecture 72 hours lab 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

3 Units

Degree Applicable

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

54 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

Degree Applicable

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

54 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 Degree Applicable

36 hours lecture 54 hours lab Prereauisite: 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 Degree Applicable

36 hours lecture

54 hours lab

Prerequisite: Minimum 12 units of photography at Mt. San Antonio College or equivalent preparation

Development of a photography portfolio for job application or gallery exhibition purposes.

PHOT 30 — Commercial and Illustrative Photography 3 Units Degree Applicable

36 hours lecture

54 hours lab

Prerequisite: 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 Degree Applicable

(May be taken four times for credit)

36 hours lecture

In order to offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students must have an instructor's authorization before enrolling in this course. Students repeating this course will make individual contracts of a more advanced nature with the instructor to insure that proficiencies are enhanced.

PHYSICAL EDUCATION: ADAPTIVE

PE-L 2 — Physical Fitness for the Physically Limited .5 to 1 Unit Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

A modified muscular conditioning program using machines and free weights specifically designed to assist students with a physical challenge. Students who repeat this course will improve daily living skills through further instruction and pretice.

PE-L 4 — Adaptive Aquatics

1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

54 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

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

54 hours activity

Designed to develop and enhance sports skills and technique for students using a wheelchair. Introduction to basic rules, skills, conditioning and strategies for a variety of sports. Students who repeat this course will improve their skills through further instruction and practice.

PE-L 14 — Activity Programs for the Physically Limited .5 to 1 Unit Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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 their skills through further instruction and practice.

PE-L 18 — Weight Training for the Physically Limited .5 to 1 Unit Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Designed to assist students with a physical limitation develop strength, flexibility and endurance through weight training. Students are introduced to basic skills and strategies of the health-related physical fitness. Students who repeat this course will improve skills through further instruction and practice.

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 8B, PE-A 8C

PE-A 4 — Lifequard Training

1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 54 hours activity

Prereauisite: 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 vards: tread water for two minutes continuously, leas 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

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Designed to teach basic swimming strokes and aquatic skills to individuals with little or no swimming ability. Students who repeat this course will improve skills through further instruction and practice.

PE-A 8B — Swimming - Intermediate

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Prereauisite: Demonstrate proficiency equivalent to Red Cross Level IV Swimmina 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

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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

Degree Applicable, CSU, UC (CAN PE10)

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 108 hours activity

Prerequisite: 1) 17 years of age or older at the start of the course: 2) Demonstrate proficiency equivalent to Level VI of the American Red Cross Learn to Swim Program; 3) Demonstrate skills on a proficiency level 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

.5 to 1 Unit

(May be taken four times for credit) Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Student must possess above average diving ability or experience in tumbling or gymnastics. Individualized instruction in the fundamentals and techniques of springboard diving. Students who repeat this course will improve skills through further instruction and practice.

PE-A 20 — Aquatic Fitness

.5 to 1 Unit

(May be taken four times for credit) Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Student must be able to perform front crawl 50 yards. Designed to improve and maintain aquatic fitness. Emphasis on building strength, endurance and cardiovascular fitness. Students who repeat this course will improve skills through further instruction and practice.

.5 to 1 Unit | PE-A 21 — Agua Aerobics

.5 to 1 Unit

(May be taken four times for credit) Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass)

36 to 54 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

.5 to 1 Unit

(May be taken four times for credit) Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

A conditioning course for the competitive swimmer to receive individualized training in order to improve 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 6 — Baseball - Men

2 Units

Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 180 hours activity

Enrollment is limited to team candidates and includes a minimum of 10 hours per week practice and intercollegiate competition. Students who repeat this course will improve skills through further instruction and practice.

PE-X 8A — Basketball - Men

1 Unit

(May be taken four times for credit) Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 90 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 Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 90 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 | PE-X 18 — Golf - Men

Degree Applicable, CSU, UC Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass)

Designed for Men's Intercollegiate Golf Team candidates and provides

Classes will be held off campus and require some traveling. Students

who repeat this course will improve skills through further instruction

instruction in the components and training related to the sport of golf.

(May be taken four times for credit)

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

90 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

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

90 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

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

180 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

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

180 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

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

180 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 19 — Golf - Women

2 Units Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

and practice. Students must have their own golf clubs.

180 hours activity

180 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

2 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

180 hours activity

Designed for Men's Intercollegiate Soccer Team candidates and provides instruction in the components of training and conditioning related to the sport of soccer. Students who repeat this course will improve skills through further instruction and practice.

PE-X 25 — Soccer - Women

2 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

180 hours activity

Designed for Women's Intercollegiate Soccer Team candidates and provides instruction in the components of training and conditioning related to the sport of soccer. Students who repeat this course will improve skills through further instruction and practice.

PE-X 26 — Softball - Women

2 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

180 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

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

180 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

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

180 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

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

180 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

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 180 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

2 Units Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

180 hours activity

Designed for students wishing to compete and/or train in intercollegiate track and field. Students will participate in a minimum of 10 hours per week at practice and intercollegiate competition. Students who repeat this course will improve skills through further instruction and practice.

PE-X 42 — Track and Field - Women

2 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 180 hours activity

Designed for students wishing to compete and/or train in intercollegiate track and field. Students will participate in a minimum of 10 hours per week at practice and intercollegiate competition. Students who repeat this course will improve skills through further instruction and practice.

PE-X 44 — Volleyball - Men

2 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 180 hours activity

Enrollment is limited to team candidates and includes a minimum of 10 hours per week of practice and intercollegiate competition. Students who repeat this course will improve skills through further instruction and practice.

PE-X 46 — Volleyball - Women

2 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 180 hours activity

Advisorv: PE 75

Enrollment is limited to team candidates and includes a minimum of 10 hours per week of practice and intercollegiate competition. Students who repeat this course will improve skills through further instruction and practice.

PE-X 48 — Water Polo - Men

(May be taken four times for credit)

2 Units

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass)

180 hours activity

Enrollment is limited to team candidates and includes a minimum of 10 hours per week of practice and intercollegiate competition. Students who repeat this course will improve skills through further instruction and practice.

PE-X 49 — Water Polo - Women

2 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

180 hours activity

Enrollment is limited to team candidates and includes a minimum of 10 hours per week of practice and intercollegiate competition. Students who repeat this course will improve skills through further instruction and practice.

PE-X 50 — Wrestling - Men

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 180 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

Degree Applicable

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 180 hours activity

Provides training and experience for members of pep squads or rally units who are directly supportive of Mt. SAC activities. Students who repeat this course will improve skills through further instruction and practice.

PE-X 88 — Pre-Season Athletics

.5 to 2 Units

Degree Applicable, CSU

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 180 hours activity

Pre-season intercollegiate athletics. Enrollment is limited to athletic team candidates and includes, sport specific aerobic and anaerobic conditioning, drill technique, strength conditioning, speed development and game play. Students who repeat this course will improve skills and fitness through further instruction and practice.

PE-X 99 — Off-Season Athletics

.5 to 2 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 180 hours activity

Designed for athletic team candidates in an off-season program. Includes sport-specific training with the purpose of developing areas of individual weaknesses. 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:

■ *PE-F 2A, PE-F 2B*

■ PE-F 6A, PE-F 6B, PE-F 6C

2 Units | PE-F 2A — Body Building - Beginning

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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

.5 to 1 Unit

(May be taken four times for credit) Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Presents beginning components of physical fitness. Students identify individual fitness level and participate in activities designed to improve overall fitness. Students who repeat this course will improve skills through further instruction and practice.

PE-F 6B — Physical Fitness - Intermediate

.5 to 1 Unit

(May be taken four times for credit) Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Develops components of physical fitness. Students analyze individual fitness level and participate in activities designed to improve overall fitness. Students who repeat this course will improve skills through further instruction and practice.

PE-F 6C — Physical Fitness - Advanced

.5 to 1 Unit

(May be taken four times for credit) Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass)

36 to 54 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

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Circuit training, aerobic activity and overview of health concepts. Emphasis on nutrition, weight management, stress reduction and the benefits of exercise on overall health. Students who repeat this course will improve skills through further instruction and practice.

PE-F 13 — Exercise Dynamics

2 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

108 hours activity

Increased frequency 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

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Fitness walking, a low-impact aerobic activity, as part of an overall wellness program. The class walks on courses around Mt. San Antonio College and the surrounding community. 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

(May be taken four times for credit)

2 Units

PE-F 31 — Fitness Testing

1 Unit Degree Applicable, CSU

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

54 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 19 — Strength Training

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

2 Units Applicable CSU IIC

Degree Applicable, CSU, UC

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

improve skills through further instruction and practice.

(May be taken for option of letter grade or Pass/No Pass)

108 hours activity

108 hours activity

Designed for students concentrating on strength development through various types of exercise. Students who repeat this course will improve skills through further instruction and practice.

PE-F 22 — Total Fitness

2 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

108 hours activity

Fitness training with increased frequency and duration. Includes nutrition, exercise concepts, stress management, cardiovascular conditioning, muscle strength and flexibility training. Students who repeat this course will improve skills through further instruction and practice.

PE-F 25 — Core Performance and Foundation Movement 2 Units Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

108 hours lab

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

Degree Applicable, CSU

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

18 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 34 — Cardiorespiratory Training

.5 to 2 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 108 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 36 — Circuit Training

.5 to 2 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 108 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 38 — Aerobics

.5 to 2 Units

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 108 hours activity

Group aerobic exercise to improve cardiorespiratory efficiency. Students who repeat this course will improve skills through further instruction and practice.

PE-F 50 — Physical Skills Preparation 2 Units for Administration of Justice and Fire Technology Degree Applicable, CSU

Degree Applic

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

108 hours activity

Through supervised and individualized training programs, the student will develop the necessary conditioning levels to pass entrance examinations in Administration of Justice and Fire Technology fields. Students who repeat this course will improve skills through further instruction and practice.

PE-F 51 — Agility Testing Preparation 1 Unit for Administration of Justice and Fire Technology

Degree Applicable, CSU

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 71 hours activity

A training program directed toward physical agility testing approximating the testing process 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 1 Unit Administration of Justice, Fire Technology, and Forestry

Degree Applicable, CSU

(May be taken four times for credit)
(May be taken for option of letter grade or Pass/No Pass)

(May be taken for option of letter grade or Pass/No Pass 71 hours activity

A conditioning program to maintain strength, additive car.

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 2.5 Units Academy

Degree Applicable, CSU

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

68 hours lecture

68 hours activity

Prepare the Basic Fire Academy student for the physical demands of the fire service. Through a supervised individualized training program, the student will acquire cardiovascular endurance, flexibility and strength. Students who repeat this course will improve skills through further instruction and practice.

PE-F 59 — Firefighter Physical Ability Test

.1 Unit Not Degree Applicable

(May be taken four times for credit) (May be taken for Pass/No Pass only)

2 hours activity

Administration of physical ability test examination. Includes nutrition, safety, body mechanics, exercise guidelines and execution of fire-related tasks. Successful completion of this course is required by various fire agencies for employment. Students must obtain test packet from website: firepat.mtsac.edu prior to enrolling. Repeating this course will allow for renewal of certificate and improvement of technique through further instruction and practice.

PHYSICAL EDUCATION: 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:

- PE-I 4A, PE-I 4B, PE-I 4C
- PE-18A, PE-18B, PE-18C
- PE-127A, PE-127B
- PE-130A, PE-130B
- PE-I31A.PE-I31B
- PE-137A, PE-137B, PE-137C
- PE-I 40A. PE-I 40B. PE-I 40C

PE-I 1 — Rock Climbing

1 Unit

(May be taken four times for credit)

Degree Applicable
(May be taken for option of letter grade or Pass/No Pass)

54 hours activity

Instruction in rock climbing. Includes preparation, equipment, techniques and strategies of rock climbing. Students who repeat this course will improve skills through further instruction and practice.

PE-I 4A — Badminton - Beginning

.5 to 1 Unit

(May be taken four times for credit) Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity

Beginning badminton fundamentals and techniques, including singles and doubles play. Students who repeat this course will improve their skills through further instruction and practice.

PE-I 4B — Badminton - Intermediate

.5 to 1 Unit

(May be taken four times for credit) Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Intermediate badminton techniques, including singles and doubles play. Students who repeat this course will improve skills through further instruction and practice.

PE-I 4C — Badminton - Advanced

.5 to 1 Unit

(May be taken four times for credit)

Degree Applicable, CSU, UC
(May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Advanced badminton techniques, including singles and doubles tournament play. Students who repeat this course will improve their skills through further instruction and practice.

PE-I 18A — Golf - Beginning

.5 to 1 Unit

(May be taken four times for credit)

Degree Applicable, CSU, UC
(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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

.5 to 1 Unit

(May be taken four times for credit) Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

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

.5 to 1 Unit

(May be taken four times for credit) Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass)
36 to 54 hours activity

Instruction and practice for the proficient golfer (Sub 15 Handicap). Emphasis on golf swing analysis. Golf 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 25 — Mixed Martial Arts

.5 to 1 Unit

(May be taken four times for credit) Not Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 54 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

.5 to 1 Unit

(May be taken four times for credit) Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass)

36 to 54 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

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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 PE-I 31B — J

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

54 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

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Basic concepts of self defense and martial arts. Covers technique in three ranges of combat: grappling, kick/punch, and weapons range. Students who repeat this course will improve skills through further instruction and practice.

PE-I 30A — Filipino Martial Arts - Beginning

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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 gi uniform.

PE-I 31B — Jiujitsu - Intermediate

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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/Jiujitsu qi uniform.

PE-I 33 — Kickboxing

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Presents the martial sport of kickboxing. Includes basic techniques for offense and defense, cardiovascular endurance, strategy and training modes. Students who repeat this course will improve skills through further instruction and practice.

PE-I 34 — Women's Self Defense

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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 35 — Karate

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Fundamentals of traditional karate. Includes form, technique, history and philosophy. Students who repeat this course will improve skills through further instruction and practice.

PE-I 37A — Tai Chi Chuan - Beginning

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Fundamentals of Tai Chi Chuan as a martial art exercise for health and fitness, meditation, relaxation and self defense. Basic therapeutic exercises in the Tai Chi Chuan format will be presented. Students who repeat this course will improve skills through further instruction and practice.

PE-I 37B — Tai Chi Chuan - Intermediate

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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 37C — Tai Chi Chuan - Advanced

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

54 hours activity

Alpine skiing skills, from novice to expert. Topics include purchasing, caring and using of equipment. Focuses on sport specific physical conditioning to develop muscular strength, endurance and flexibility, mountain procedures and safety. Ski trips are mandatory and at the student's expense. Students who repeat this course will improve their skills through further instruction and practice.

PE-I 40A — Tennis - Beginning

.5 to 1 Unit

Degree Applicable, CSU, UC

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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

.5 to 1 Unit

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(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Intermediate tennis techniques and strategies for the individual who has previous experience and instruction in tennis. Students who repeat this course will improve skills through further instruction and practice.

PE-I 40C — Tennis - Advanced

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Advanced tennis techniques and strategies for the experienced player. Students who repeat this course will improve skills through further instruction and practice.

PE-I 44 — Track and Field

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Wrestling skills, fundamentals and match competition. Students who repeat this course will improve skills through further instruction and practice.

PE-I 50A — Yoga

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Individual sports technique enhancement. Includes cardiorespiratory, flexibility, muscle strength and endurance training modes. Students who repeat this course will improve skills through further instruction and practice.

PHYSICAL EDUCATION: TEAM SPORT

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 24A, PE-S 24B, PE-S 24C

PE-S 2 — Basketball

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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 10 — Soccer

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Basic skills, rules and strategies for team play in baseball. Students who repeat this course will improve skills through further instruction and practice.

PE-S 13 — Football

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Basic skills, rules and strategies for team play in the sport of slowpitch softball. Students who repeat this course will improve skills through further instruction and practice.

PE-S 18 — Indoor Soccer

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Indoor soccer skills, fundamentals and game play. Students who repeat this course will improve skills through further instruction and practice.

PE-S 19 — Team Sports

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Instruction in the skills, techniques, and strategies of game play in one or more team sports. Students who repeat this course will improve skills through further instruction and practice.

PE-S 24A — Volleyball - Beginning

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 hours activity

Designed for individuals with previous experience in techniques and strategies of volleyball. Students who repeat this course will improve skills through further instruction and practice.

PE-S 24C — Volleyball - Advanced

.5 to 1 Unit

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 to 54 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

.5 to 1 Unit

Degree Applicable, CSU, UC (May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 36 to 54 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

PF 3 — First Aid and CPR

3 Units

Degree Applicable, CSU, UC

of Activity/Sports-Related Injuries

PE 19 — Introduction to Care/Prevention

54 hours lecture

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 Degree Applicable, CSU

54 hours lecture

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 Sport

2 Units

Degree Applicable, CSU, UC

36 hours lecture

Instruction in the theory and technique of various 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

Degree Applicable, CSU, UC

54 hours lecture

Introduction to rules, regulations and career opportunities of various team and individual sports.

PE 15 — Administration of Fitness Programs

2 Units Degree Applicable

(May be taken for option of letter grade or Pass/No Pass) 36 hours lecture

Provides leadership training and administrative skills related to fitness specialists, personal trainers and physical educators. Students will explore curriculum topics and practical skills related to careers in fitness and physical education.

PE 17 — Introduction to Physical Education 3 Units

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass)

54 hours lecture

Introduction and orientation to physical education as a profession and academic discipline. Explores sub-disciplines, opportunities in the field, philosophy, scientific basis and analysis.

54 hours lecture

Degree Applicable, 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 Degree Applicable

3 Units

(May be taken for option of letter grade or Pass/No Pass) 36 hours lecture

The study of movement as it relates to exercise and the interrelationships of body segments involved in human movement activity, actions of joints, nerves and muscle exercise.

PE 33 — Fitness Assessment

.5 Unit Degree Applicable

(May be taken for option of letter grade or Pass/No Pass) 9 hours lecture

An integrated approach to healthy lifestyles. Includes pre and post fitness assessments, basic nutrition analysis, lifestyle behaviors and stress management. Interpretation of results includes goal-setting principles and development of basic exercise program.

PE 34 — Fitness for Living

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Survey and analysis of the components of fitness. Effects of fitness on optimal health, concepts of human movement, fitness program design, stress management, nutrition and weight control.

PE 38 — Physiology of Exercise

3 Units

Degree Applicable

54 hours lecture

Theory of basic physiological concepts as they pertain to exercise training and the prescription of individual fitness programs.

PE 39 — Techniques of Fitness Testing

2 Units Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

Theory and technique of performing fitness testing, assessment, evaluation, and recommendation. Includes related laboratory experience and practical applications.

PE 40 — Techniques of Teaching Cardiovascular Exercise

2 Units

Degree Applicable

(May be taken for option of letter grade or Pass/No Pass) 36 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 Applicable

(May be taken for option of letter grade or Pass/No Pass)

36 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

Degree Applicable, CSU, UC

54 hours lecture

Designated for coaches at varying levels from youth league to high school varsity. Focuses on coaching issues and problems facing the coach today and includes the philosophy, theory, and principles of developing and maintaining an athletic program.

PE 48 — Lifequard Training

3 Units

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 54 hours lecture

Prerequisite: Ability to swim 500 yards without stopping American Red Cross requirements for Lifeguard Training. To receive certification, students must pass written exams with a minimum of 80% and pass all practical skills tests. Students who meet all qualifications will be certified by the American Red Cross in Lifequard Training, First Aid and C.P.R for the Professional Rescuer.

PE 50 — Academy Entrance Exam

.5 Unit

Degree Applicable

(May be taken for Pass/No Pass only)

9 hours lecture

9 hours activity

Physical ability examination specifically designed for candidates seeking admission into the Mt. SAC Fire Academy. Candidates must be approved by the Fire Technology Office prior to registration.

PE 81 — Work Experience for Coaching

2 Units

Degree Applicable

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 150 hours lab

Provides coaches and physical education students with on-the-job experience in approved worksites related to classroom instruction. A minimum of 5 hours per week of supervised work (minimum 75 paid or 60 non-paid clock hours per semester) is required for each unit of credit. Work experience placement is not guaranteed, but assistance is provided by the Coaching Certificate faculty advisor. Students who repeat this course will improve skills through further instruction and practice.

PE 85 — Fitness Internship

1 Unit

Degree Applicable

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass) 75 hours lab

Provides fitness specialist students with actual on-the-job skill development in fitness testing, analysis and prescription. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Work experience placement is not guaranteed, but assistance is provided by the Fitness Certificate faculty advisor. Students who repeat this course will improve skills through further instruction and practice.

PE 92 — Work Experience - Athletic Training

2 Units

Degree Applicable

(May be taken four times for credit) 160 hours lab

Provides Athletic Trainer Aides and physical education students with actual on-the-job experience in an approved worksite related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Work experience placement is not guaranteed, but assistance is provided by the Athletic Trainer faculty and staff. Students who repeat this course will improve skills through further instruction and practice.

PHYSICAL SCIENCE

PHSC 3 — Energy Science

4 Units

Degree Applicable, CSU, UC

54 hours lecture

54 hours lab

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

Degree Applicable, CSU, UC

54 hours lecture

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 Applicable, CSU, UC

54 hours lab

Corequisite: PHSC 7

Laboratory topics will parallel the course content of Physical Science lecture.

PHYSICAL THERAPY AIDE

PHTH 81 — Physical Therapy Aide

4 Units

Degree Applicable

54 hours lecture

54 hours lab

Advisory: ANAT 50 or equivalent

Role and skills of physical therapy aide. Procedures commonly performed by aides will be explained, demonstrated and practiced; includes terminology and interpersonal skills.

PHYSICIAN ASSISTANT PREPARTORY

PAP 101 — Fundamentals for Physician Assistant Preparatory Program

8 Units

Not Degree Applicable

144 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

Degree Applicable, CSU

6 Units

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

36 hours lecture

216 hours lab

Advisory: PAP 101 taken concurrently

Prepares students for entrance into programs for the career of Physician Assistant. Examines and profiles community health care needs. Explores and directly allows students to interface with various patient populations. Requires weekend and overnight labs to various areas in California. Out-of-class projects required. Students who repeat this course will improve skills through further instruction and practice.

PHYSICS

PHYS 1 — Physics

4 Units

Degree Applicable, CSU, UC

Degree Applicable, CSU, UC

54 hours lecture

54 hours lab

Prerequisite: Eligibility for MATH 71

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 PHYS02)

CAN PHYS SEQ A

54 hours lecture

54 hours lab

Prereauisite: 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 Degree Applicable, CSU, UC

(CAN PHYS04)

CAN PHYS SEO A

54 hours lecture

54 hours lab

Prerequisite: PHYS 2AG or equivalent

A continuation of Physics 2AG. Includes electricity and magnetism (including DC and AC circuits,) geometrical and physical optics, relativity, quantum physics, atomic and nuclear physics. Laboratory includes use of computers to analyze data and simulate electric circuits.

PHYS 4A — Engineering Physics

(CAN PHYS08)

Degree Applicable, CSU, UC

5 Units

5 Units

CAN PHYS SEO B

72 hours lecture 54 hours lab

Prereauisite: PHYS 2AG

Corequisite: MATH 181 (may have been taken previously)

Studies linear and rotational motion, forces, 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

(CAN PHYS12)

Degree Applicable, CSU, UC

CAN PHYS SEQ B

72 hours lecture 54 hours lab

Prerequisite: PHYS 4A

Corequisite: MATH 280 (may have been taken previously)

Heat, kinetic theory of gases, thermodynamics, electromagnetism (including DC and AC circuits,) and Maxwell's equations. Laboratory includes significant use of computers for data acquisition, analysis and simulation.

PHYS 4C — Engineering Physics

5 Units

(CAN PHYS14) Degree Applicable, CSU, UC

CAN PHYS SEQ B 72 hours lecture

54 hours lab

Prerequisite: PHYS 4B

Fluids, sound, electromagnetic waves, optics, diffraction and interference of waves, relativity, quantum physics, atomic and nuclear structure, nuclear reactions and elementary particles. Laboratory includes significant use of computers for data analysis.

PHYS 99 — Special Projects in Physics

2 Units

Degree Applicable, CSU

(May be taken four times for credit)

36 hours lecture

Corequisite: PHYS 1 or PHYS 2AG or PHYS 4A (may have been taken previously)

In order to offer selected students recognition for their academic interests and ability, and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Student must have instructor's authorization before enrolling in this class. Students who repeat this course will improve skills by further instruction and practice.

POLITICAL SCIENCE

POLI 1 — Political Science (CAN GOVTO2)

3 Units

Degree Applicable, CSU, UC

54 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 GOVTO2)

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Acceptance into the Honors Program

Principles and problems of government with particular emphasis on national government in the United States. This course satisfies the requirement for a course in the Constitution of the United States and the principles of State and local government as required by Title 5 of the California Administrative Code. An honors course designed to provide an enriched experience. Students may not receive credit for both POLI 1 and POLI 1H.

POLI 2 — Political Science

3 Units

Degree Applicable, CSU, UC

54 hours lecture

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

Degree Applicable, CSU, UC

54 hours lecture

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

Degree Applicable, CSU, UC

54 hours lecture

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

Degree Applicable, CSU, UC

54 hours lecture

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

Degree Applicable, CSU

54 hours lecture

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

Degree Applicable, CSU, UC

54 hours lecture

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 (CAN PSY02)

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prereauisite: Eliaibility for ENGL 68

Develops an understanding of the basic principles of behavior and mental processes. The subject matter and research methods of scientific psychology are presented. Topics include; history, biopsychology, sensation, perception, states of consciousness, learning, memory, forgetting, language, cognition, life-span development, gender, sexuality, stress, health, motivation, emotions, social psychology, abnormality, treatment and social and diversity issues.

PSYC 1AH — Introduction to Psychology - Honors 3 Units Degree Applicable, CSU, UC (CAN PSY02)

54 hours lecture

Prerequisite: Acceptance into the Honors Program

Develops an understanding of the basic principles underlying behavior and cognition. The subject matter and methods of scientific psychology are presented. Topics include scientific methodology, history biopsychology, sensation, perception, states of consciousness, learning, memory, forgetting, language, cognition, intelligence, life-span development, personality, stress, health, motivation, emotions, psychopathology, psychotherapeutic approaches, and social factors. An honors course designed to provide an enriched experience. Students may not receive credit for both PSYC 1A and PSYC 1AH.

PSYC 1B — Biological Psychology

(CAN PSY10) Degree Applicable, CSU, UC

54 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 PSY08) Degree Applicable, CSU, UC

54 hours lecture

54 hours lab

Prerequisite: PSYC 1A or PSYC 1AH and PSYC 10 or MATH 110 or MATH 110H

Advisory: ENGL 1A

Research methods in the area of social science, especially in the discipline of psychology. American Psychological Association (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 Degree Applicable, CSU

54 hours lecture

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 Degree Applicable, CSU, UC

(CAN PSY06)

54 hours lecture

54 hours lab

Prerequisite: PSYC 1A or SOC 1 and eligibility for MATH 110 Statistical principles of the behavioral sciences emphasizes research design. scales of measurement, distributions, graphing, descriptive statistics, measures of central tendency, measures of variability, z-test, independent and dependent t-tests, inferential statistics, confidence intervals, linear correlations and regression, and analysis of variance, including multivariate factorial designs and chi square analyses. Statistical analyses through the use of computerized statistical packages are interpreted through lab experience.

PSYC 14 — Developmental Psychology

Degree Applicable, CSU, UC

54 hours lecture

3 Units

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.

3 Units PSYC 17 — Introduction to Human Services

Degree Applicable, CSU, UC

54 hours lecture

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 hours lecture

Prereauisite: 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

Degree Applicable, CSU, UC

54 hours lecture

Advisory: PSYC 1A and ENGL 1A (taken prior or concurrently)

A bio-cultural analysis of women, Emphasis will be placed on biological. psychological and sociological data related to principles of development, socialization, learning, motivation, emotion and perception.

PSYC 26 — Psychology of Sexuality 3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

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

Degree Applicable, CSU

54 hours lecture

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 Degree Applicable

54 hours lecture

Provides a basic overview of the helping processes. Stresses application **3 Units** 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

PSYC 50 — Psychology of Human Relations

3 Units

Degree Applicable

54 hours lecture

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.

Degree Applicable, CSU, UC | PSYC 99 — Special Projects in Psychology

2 Units

Degree Applicable, CSU

(May be taken four times for credit)

36 hours lecture

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

R-TV 01 — Introduction to Broadcasting

3 Units

Degree Applicable, CSU

54 hours lecture

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 Degree Applicable, CSU

54 hours lecture

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 Not Degree Applicable

54 hours lecture

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 Degree Applicable

27 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 Degree Applicable

54 hours lecture

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.

R-TV 05 — Radio-TV Newswriting

3 Units Degree Applicable

54 hours lecture

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 Applicable

27 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 07A — Beginning Commercial Voice-Overs

3 Units
Not Degree Applicable

54 hours lecture

Advisory: R-TV 01

Development of voices for radio and television commercials, character voices, narrations, and animation. Also covers auditioning, working with agents and agencies, and understanding voice-over contracts.

R-TV 07B — Advanced Commercial Voice-Overs

3 Units Degree Applicable

36 hours lecture

54 hours lab

Instruction in advanced techniques used in the art of voicing for radio and TV commercials, animation and narration. Further development of audition and recording session skills.

R-TV 08 — KSAK Radio Studio Operations

2 Units

Degree Applicable, CSU

(May be taken for Pass/No Pass only)

36 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.

R-TV 09 — Broadcast Sales and Promotion

3 Units Degree Applicable

54 hours lecture

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

3 Units Degree Applicable

54 hours lecture

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

Degree Applicable, CSU

36 hours lecture

54 hours lab

Corequisite: R-TV 01 (may have been taken previously)

Operation of standard radio production equipment for both tape-based and digital production utilizing ProTools technology. Production skills concentrate on the use of voice, music and sound effects applied to a variety of elements including commercials and newscasts.

R-TV 11B — Advanced Radio Production

3 Units

Degree Applicable, CSU

54 hours lecture

Prerequisite: R-TV 11A

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

Degree Applicable

54 hours lecture Advisorv: 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.

R-TV 14 — Media Aesthetics

3 Units Degree Applicable

54 hours lecture

Prerequisite: ENGL 67

Media aesthetics for television and film presentation. Stresses critical, theoretical and practical analysis. Material is presented from a producer/artist point of view and is intended for those pursuing a career in film, television, and other electronic visual media, presenting material from the producer/artist point of view.

R-TV 15 — Broadcast Business Practices

3 Units

Degree Applicable

54 hours lecture

Corequisite: R-TV 01 (may have been taken previously)

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' responsibilities to their audiences are also discussed.

R-TV 16 — Broadcast Career Preparation

3 Units

Degree Applicable

54 hours lecture

Prerequisite: R-TV 11A or R-TV 19A

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.

R-TV 17 — Internet Radio and Podcasting

3 Units Degree Applicable

54 hours lecture

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

Degree Applicable, CSU

54 hours lecture 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

3 Units

Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

54 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

3 Units

Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

54 hours lab

Prereauisite: R-TV 19A

Advanced video production techniques emphasizing film-style aesthetics and production.

R-TV 20 — Television News Production

Degree Applicable

54 hours lecture

18 hours lab

Prerequisite: R-TV 05 or R-TV 11A or R-TV 19A

Advisory: JOUR 111

TV newscasting using writing, announcing, production, direction. graphics, and editing skills both in and out of the studio.

R-TV 21 — Remote Television Production and Engineering 3.5 Units

54 hours lecture

36 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.

R-TV 22 — Editing for Film and Television

54 hours lecture

Aesthetics and use of non-linear editing software for film and television.

R-TV 26 — Current Issues in Entertainment Law

3 Units Degree Applicable

54 hours lecture

Advisory: R-TV 01 or PLGL 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 Applicable

54 hours lecture

Prerequisite: 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.

R-TV 30 — Introduction to Careers in Entertainment 2 Units

Not Degree Applicable

36 hours lecture

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 31 — History of Radio DJs

3 Units Degree Applicable

54 hours lecture

Traces the history of music radio through study of the most influential disc iockevs in broadcasting history.

3 Units R-TV 33 — Radio Show Producer Techniques and Procedures 3 Units

Degree Applicable

54 hours lecture

Corequisite: R-TV 01

Covers the behind-the-scenes aspects of producing a radio show, with special emphasis on generating ideas for specific audiences, identifying and booking guests and preparing interviews for broadcast.

R-TV 34 — On-Camera Performance

1.5 Units

1 Unit

Degree Applicable

Degree Applicable | 27 hours lecture

Advisory: R-TV 01

On-camera techniques used in news and sports anchoring and reporting including make-up, hair, wardrobe and overall presentation.

R-TV 97A — Radio/Entertainment Industry Seminar

1 Unit Degree Applicable

Degree Applicable

(May be taken four times for credit)

3 Units | 18 hours lecture

Degree Applicable | 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 hours lab

Prerequisite: R-TV 01 and any other three 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

(May be taken four times for credit)

1 to 2 Units Degree Applicable

75 to 150 hours lab

Prerequisite: R-TV 11A

Corequisite: R-TV 01 and R-TV 02 (may have been taken previously) Regular and continuing experience in the operation of the College radio station or the college Internet station. Students may select roles involving on-air announcing, production, programming and news. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice.

R-TV 98A — Television and Film/Entertainment Industry Seminar

1 Unit Degree Applicable

(May be taken four times for credit)

18 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

1 Unit

Degree Applicable

(May be taken four times for credit)

75 hours lab

Prerequisite: 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 Degree Applicable

(May be taken four times for credit)

36 hours lecture

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 Television 1 to 3 Units (May be taken four times for credit) Not Degree Applicable

(May be taken for option of letter grade or Pass/No Pass)

75 to 225 hours lab

Prerequisite: Completion of 12 Television or Film course units or the equivalent. Compliance with Work Experience regulations as designated in the College Cataloa.

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.

RADIOLOGIC TECHNOLOGY

RAD 30 — Radiographic Pathology

1.5 Units Degree Applicable

24 hours lecture Corequisite: RAD 63 Advisory: RAD 64

Concepts of disease and pathological processes demonstrated in diagnostic radiography; etiology; diagnosis, and prognosis of systemic disease processes.

RAD 31 — Fluoroscopy

2 Units Degree Applicable

36 hours lecture Corequisite: 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

Degree Applicable

36 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

Degree Applicable, CSU

54 hours lecture

Prerequisite: Admission to the Radiologic Technology Program, Eligibility for MATH 71. and CHEM 10

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 Degree Applicable, CSU

Degree 71

(May be taken for Pass/No Pass only)

236 hours lab

Corequisite: RAD 61A

Practical application of radiographic theories and principles in a hospital setting under direct supervision of clinical personnel and college 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

gy 2.5 Units Degree Applicable, CSU

(May be taken for Pass/No Pass only)

140 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 Applicable, CSU

(May be taken for Pass/No Pass only)

256 hours lab

Prerequisite: RAD 52B

Corequisite: RAD 62A

Practical application of radiographic theories and principles in an affiliated hospital under direct supervision of clinical personnel and college instructors. Emphasis on abdominal and thoracic viscera, spine, common contrast exams, and generalized skull radiography.

RAD 54 — Techniques of Radiologic Technology

3 Units

Degree Applicable, CSU

(May be taken for Pass/No Pass only)

150 hours lab

Prerequisite: RAD 62A

Practical experience in a hospital setting under the supervision of clinical personnel and college instructors. Emphasis on skull, portable radiography, surgical studies and the development of nursing skills as it relates to radiologic technology.

RAD 55A — Techniques of Radiologic Technology 7 Units Degree Applicable, CSU

(May be taken for Pass/No Pass only)

360 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 Degree Applicable, CSU

(May be taken for Pass/No Pass only)

140 hours lab

Prerequisite: RAD 55A

Continued experience in a hospital setting under guidance of clinical personnel and college instructors. Emphasis on E.R.C.P., sialogram, retrograde and other advanced procedures.

RAD 56 — Techniques of Radiologic Technology 7 Units

Degree Applicable, CSU

(May be taken for Pass/No Pass only)

380 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

4 Units Degree Applicable, CSU

(May be taken for Pass/No Pass only) 232 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

RAD 61A — Theory of Radiologic Technology

4 Units

Degree Applicable, CSU

72 hours lecture

Prerequisite: RAD 50, MEDI 90

venipuncture instruction.

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

RAD 61B — Radiographic Positioning

3 Units

Degree Applicable, CSU

54 hours lecture

procedures.

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 Applicable, CSU

18 hours lecture

18 hours lab

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

4 Units

Degree Applicable, CSU

72 hours lecture

Prerequisite: ANAT 10A, RAD 61A

Corequisite: RAD 53, RAD 62B and 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

Degree Applicable, CSU

54 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 Applicable, CSU

18 hours lecture 18 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

Degree Applicable, CSU

72 hours lecture Prereauisite: RAD 54

Coreauisite: RAD 30 and 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

Degree Applicable, CSU

72 hours lecture

Prerequisite: RAD 63

Corequisite: RAD 31 and 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 Degree Applicable, CSU

24 hours lecture

24 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

Not Degree Applicable, CSU

18 hours lecture

Designed to increase reading speed, while maintaining comprehension of college-level material. Improves concentration and recall. Develops flexibility in reading rate.

READ 70 — Improving Reading Comprehension

3 Units

Not Degree Applicable

(May be taken for Pass/No Pass only)

54 hours lecture

24 hours lab

Prerequisite: Satisfactory score on appropriate placement test Introduction to reading, comprehension, and vocabulary strategies. Introduction to self-awareness of reading capabilities.

READ 80 — Developing Reading Comprehension

3 Units

Not Degree Applicable

(May be taken for Pass/No Pass only)

54 hours lecture

24 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.

READ 90 — Preparing for College Reading

3 Units

Not Degree Applicable

(May be taken for Pass/No Pass only)

54 hours lecture

Prereauisite: READ 80 or satisfactory score on reading placement test Prepares students for college textbook reading. Emphasizes understanding vocabulary and college level text analysis and comprehension.

READ 100 — Analysis and Critical Reading

3 Units

3 Units

Degree Applicable, CSU

54 hours lecture

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 Through Service Learning

Not Degree Applicable

36 hours lecture

54 hours lab

Advisory: Eligibility for ENGL 68

Fundamentals of reading comprehension, vocabulary development and phonics. Educational approaches include awareness of learning styles, motivation, levels of cognition and oral communication. Covers lesson 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 Degree Applicable, CSU

36 hours lecture

Corequisite: RESD 51A and 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 Applicable, CSU

54 hours lecture 54 hours lab

Corequisite: RESD 50 and 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

Degree Applicable, CSU

54 hours lecture 54 hours lab

Prereauisite: RESD 50 and RESD 51A Corequisite: 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

3 Units

Degree Applicable, CSU

54 hours lecture

Coreauisite: RESD 50 and RESD 51A

Anatomy and physiology of the cardiopulmonary, neurological and renal systems emphasizing clinical application of physiological concepts.

RESD 53 — Cardiopulmonary Pathophysiology

3 Units

Degree Applicable, CSU

54 hours lecture Coreauisite: 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 Applicable, CSU

54 hours lecture Coreauisite: RESD 56B

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

Degree Applicable, CSU

2.5 Units

(May be taken for Pass/No Pass only)

144 hours lab Prereauisite: 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 the rapeutic modalities and diagnostic procedures performed in the general management and treatment of adult and pediatric patients requiring respiratory care are introduced.

RESD 56B — Techniques of Respiratory Therapy

6 Units

Degree Applicable, CSU

(May be taken for Pass/No Pass only) 384 hours lab

Prerequisite: RESD 56A

Corequisite: RESD 55 and 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

2.5 Units Degree Applicable, CSU

(May be taken for Pass/No Pass only)

144 hours lab

Prerequisite: RFSD 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 Applicable, CSU

(May be taken for Pass/No Pass only)

384 hours lab

Prerequisite: RESD 56C

Coreauisite: RESD 59 and 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 57A — Special Procedures for Respiratory Care 1.5 Units

Degree Applicable, CSU

27 hours lecture

Prerequisite: RESD 50

Coreauisite: 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

Degree Applicable, CSU

27 hours lecture Prereauisite: 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 Applicable, CSU

54 hours lecture

Coreauisite: RESD 56B and 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 Applicable, CSU

54 hours lecture

Coreauisite: RESD 56C and 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 2 Units

Degree Applicable, CSU

36 hours lecture

Corequisite: RESD 51B and 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

Degree Applicable, CSU

(May be taken for Pass/No Pass only) 54 hours lecture

Coreauisite: RESD 56D and 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 Degree Applicable, CSU

36 hours lecture

216 hours lab

Prepare students with service experiences in health occupations. Examines and profiles community health care needs. Interfaces with various patient populations. Weekend and overnight labs to various areas within California may be offered. Out-of-class projects required.

SL 2 — Linked Service Learning

1 Unit

Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass) 54 hours lab

Links service learning with content-specific courses across the college curriculum. Allows students to explore interests or career objectives through community involvement and service. Requires arranged hours of community-based activity. Must be enrolled concurrently in a course with a service learning Link.

SL 3 — Service Learning/Seminar in Community Involvement 3 Units

Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass) 18 hours lecture

108 hours lab

Examines and profiles community needs through service learning. Explores and allows students to directly interface with community populations. Permits students the opportunity to explore various career options through community service. Enriches personal and career development through understanding of civic and social issues.

SL 4 — Service Learning and Community Involvement

1 Unit Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass) 9 hours lecture

27 hours lab

Examines and addresses community needs through service learning. Students directly interface with community populations to identify needs and implement activities. Permits exploration of service-oriented career options. Enriches personal and career development through understanding of civic and social issues.

SL 99 — Special Projects in Service Learning

Degree Applicable, CSU

1 Unit

(May be taken for Pass/No Pass only)

36 hours lab

In order to offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, from time to time various departments offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Student must have instructor's authorization before enrolling in this class.

SIGN LANGUAGE, INTERPRETING

SIGN 99 — Special Projects in Sign Language/Interpreting 2 Units Degree Applicable

(May be taken four times for credit)

36 hours lecture

Prerequisite: SIGN 81 or SIGN 102 or equivalent signing ability Offers students the opportunity to explore American Sign Language. American Deaf Culture or Sign Language Interpreting in greater depth. Content and methods of study vary from semester to semester and depend on the particular project under consideration.

SIGN 101 — American Sign Language 1

4 Units

Degree Applicable, CSU, UC

72 hours lecture

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

Degree Applicable, CSU, UC

72 hours lecture

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

Degree Applicable, CSU, UC

72 hours lecture

Prereauisite: SIGN 81 or SIGN 102 or eauivalent 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

Degree Applicable, CSU, UC

72 hours lecture

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

4 Units Degree Applicable

72 hours lecture

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.

SIGN 108 — Fingerspelling

2 Units

Degree Applicable

(May be taken for Pass/No Pass only)

36 hours lecture

Prereauisite: SIGN 81 or SIGN 102

Skill development in receptive and expressive fingerspelling.

SIGN 201 — Deaf Perspectives

3 Units

Degree Applicable

54 hours lecture

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 Applicable, CSU, UC

54 hours lecture

American Deaf cultural norms, values, mores and institutions.

SIGN 210 — American Sign Language Structure

3 Units

Degree Applicable, CSU, UC

54 hours lecture

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

Degree Applicable

54 hours lecture

Prereauisite: SIGN 104 Coreauisite: SIGN 210

American Sign Language and English translation by comparing texts in both languages.

SIGN 223 — Principles of Interpreting

3 Units

Degree Applicable, CSU

54 hours lecture

Prereauisite: SIGN 203, Eliaibility for ENGL 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 2 Units Not Degree Applicable

36 hours lecture

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

Not Degree Applicable

4 Units

(May be taken for option of letter grade or Pass/No Pass)

54 hours lecture 54 hours lab

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 Degree Applicable

72 hours lecture

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.

SIGN 232 — Advanced Interpreting

4 Units Degree Applicable

54 hours lecture 54 hours lab Prerequisite: SIGN 231

Refines basic interpreting skills with emphasis on simultaneous interpreting. Intensive skill development in interpreting from English to American Sign Language (ASL) and ASL to English.

SIGN 238 — Oral Transliteration

3 Units

Degree Applicable

54 hours lecture

Learn skills to facilitate communication for Deaf and hard-of-hearing people who use speechreading and speech to communicate.

SIGN 239 — Practicum

1 Unit

Degree Applicable

(May be taken for Pass/No Pass only)

54 hours lab

Prerequisite: SIGN 88B or SIGN 232

Develops and hones interpreting skills in supervised interpreting situations.

SIGN 240 — Vocabulary Building for Interpreters

2 Units Not Degree Applicable, CSU

(May be taken for Pass/No Pass only)

36 hours lecture

Prerequisite: 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.

SIGN 250 — Interpreting with Classifiers

1.5 Units Not Degree Applicable

(May be taken for Pass/No Pass only)

18 hours lecture

27 hours lab

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

1.5 Units

Not Degree Applicable

(May be taken for Pass/No Pass only)

18 hours lecture

27 hours lab

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 development in video interpreting.

SOCIOLOGY

SOC 1 — Sociology

3 Units

Degree Applicable, CSU, UC (CAN SOCO2)

54 hours lecture

Prerequisite: Eligibility for ENGL 68

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

3 Units

(CAN SOCO2) Degree Applicable, CSU, UC

54 hours lecture

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 Degree Applicable, CSU, UC

(CAN SOCO4) 54 hours lecture

Advisory: Eligibility for ENGL 68

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.

SOC 2H — Sociology - Honors

3 Units

(CAN SOC04)

Degree Applicable, CSU, UC

54 hours lecture

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

Degree Applicable, CSU, UC

54 hours lecture

Characteristics, contributions, and problems of older persons. Emphasizes theoretical perspectives on the process of aging. Topics include gender, race, ethnicity, religion, stratification, and health care. Attention is given to gerontology as an academic discipline and a field of practice.

SOC 5 — Introduction to Criminology

3 Units

Degree Applicable, CSU, UC

54 hours lecture

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

Degree Applicable, CSU, UC

54 hours lecture

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 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. 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

Degree Applicable, CSU, UC

(CAN FCS12) 54 hours lecture

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

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Theoretical aspects of physical, social, emotional and cognitive development from conception through adulthood. Requires observation of children.

SOC 20 — Sociology of Ethnic Relations

3 Units

3 Units

Degree Applicable, CSU, UC

54 hours lecture

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.

SOC 20H — Sociology of Ethnic Relations - Honors Degree Applicable, CSU, UC

54 hours lecture

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

Degree Applicable, CSU

(May be taken four times for credit)

36 hours lecture

Offers 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

Degree Applicable, CSU, UC

(CAN SPANO2) CAN SPAN SEO A 72 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.

SPAN 2 — Continuing Elementary Spanish (CAN SPAN04)

4 Units

Degree Applicable, CSU, UC

CAN SPAN SEO A

72 hours lecture

Prerequisite: SPAN 1 or equivalent

Further development of conversational, reading and writing skills in Spanish with special emphasis on verbs, grammar and expansion of vocabulary. Further study of Hispanic culture.

SPAN 3 — Intermediate Spanish

4 Units

(CAN SPAN08)

Degree Applicable, CSU, UC

CAN SPAN SEO B

(May be taken for option of letter grade or Pass/No Pass)

72 hours lecture

Prereauisite: SPAN 2 or eauivalent

Further development of communicative proficiency in Spanish. Further study and review of grammar. Increasing emphasis on reading and writing as tools in exploring Hispanic civilization.

SPAN 4 — Continuing Intermediate Spanish 4 Units

(CAN SPAN10)

Degree Applicable, CSU, UC

CAN SPAN SEO B

(May be taken for option of letter grade or Pass/No Pass) 72 hours lecture

Prerequisite: SPAN 3 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 Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass)

72 hours lecture

Prerequisite: SPAN 4 or equivalent

Emphasis is placed on increased proficiency in speaking, reading and writing Spanish, Cultural insights are developed through videos, movies and readings in Hispanic culture through different literary genres.

SPAN 6 — Continuing Advanced Spanish

4 Units

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass)

72 hours lecture

Prerequisite: SPAN 5 or equivalent

Advanced reading, discussing and writing in Spanish designed to provide further cultural insights into the Hispanic world through the study of cultural and literary readings. High level of proficiency in Spanish will be emphasized.

SPAN 11 — Spanish for the Spanish Speaking

4 Units

Degree Applicable, CSU, UC

72 hours lecture

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 Degree Applicable, CSU, UC

72 hours lecture

Prereauisite: SPAN 11 or eauivalent 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 Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass)

54 hours lecture

Prerequisite: SPAN 4 or equivalent

Introduction to the literatures of Mexico, other Spanish-American countries and Spain. All reading and lectures are in Spanish.

SPAN 40 — Intermediate Spanish for Health Professionals 4 Units

Not Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

72 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 Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass)

54 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 Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass)

54 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** (CAN SPCH04)

3 Units

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: Eligibility for ENGL 68

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. Students may not receive credit for both SPCH 1A and SPCH 1AH.

SPCH 1AH — Public Speaking - Honors

3 Units

(CAN SPCH04)

Degree Applicable, CSU, UC

54 hours lecture

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

Degree Applicable, CSU, UC

54 hours lecture

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 Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass) 54 hours lecture

Improvement of the speaking voice and oral communication style, including proper use for control and projection of the voice, vocal expressiveness, articulation and pronunciation. Develops accuracy of sound production for standard American speech through use of the International Phonetic Alphabet. Emphasizes individual diagnosis and extensive oral practice.

SPCH 4 — Oral Interpretation of Literature 3 Units

Degree Applicable, CSU, UC

54 hours lecture

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

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: SPCH 1A or SPCH 1AH or SPCH 4

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** (CAN SPCH10)

3 Units Degree Applicable, CSU, UC

54 hours lecture

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

Degree Applicable, CSU

54 hours lecture

Theoretical dynamics of culture within communication contexts, and a practical exploration into improving intercultural communication competence for more effective interactions with others in a diverse society. Students may not receive credit for both SPCH 7 and SPCH 7H.

SPCH 7H — Intercultural Communication Honors

rs 3 Units Degree Applicable, CSU

54 hours lecture

Prerequisite: Admittance into the Honors Program

Theoretical dynamics of culture within communication contexts, and a practical exploration into improving intercultural communication competence for more effective interactions with others in a diverse society. An honors course designed to provide an enriched experience. Students may not receive credit for both SPCH 7 and SPCH 7H.

SPCH 10 — Speech Enhancement

1 Unit

Degree Applicable, CSU

18 hours lecture

Corequisite: SPCH 1A

Provides hands-on research, outlining, and anxiety reduction activities designed to enhance student success as a linked course with the basic public speaking course.

SPCH 15 — Forensics: Contest Speech and Debate

2 Units

Degree Applicable, CSU

(May be taken four times for credit)

18 hours lecture

54 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 16 — Forensics: Individual Team Event

2 Units

Degree Applicable, CSU

(May be taken four times for credit)

108 hours lab

Coreauisite: SPCH 15

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 along with receiving critiques from judges and utilizing directed self-study. Students who repeat this course will improve skills through further instruction and practice. Public or tournament performance required.

SPCH 17 — Forensics: Debate Team

2 Units

Degree Applicable, CSU

(May be taken four times for credit)

108 hours lab Coreauisite: SPCH 15

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. Public or tournament performance required.

SPCH 18 — Forensics: Readers Theater Team

2 Units

Degree Applicable, CSU

(May be taken four times for credit) 108 hours lab

Corequisite: SPCH 15

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 Reader?s Theater pieces. Students who repeat this course will improve skills through further instruction and practice. Public or tournament performance required.

SPCH 20 — Argumentation and Debate

3 Units

3 Units

Degree Applicable, CSU, UC

(CAN SPCH06) 54 hours lecture

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

(CAN SPCH06)

Degree Applicable, CSU, UC

54 hours lecture

Prerequisite: SPCH 1A or SPCH 1AH and acceptance into the Honors

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 Degree Applicable, CSU, UC

(CAN SPCH08)

54 hours lecture

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 Degree Applicable, CSU, UC (CAN SPCH08)

54 hours lecture

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

Degree Applicable

54 hours lecture

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

Degree Applicable, CSU

(May be taken four times for credit)

36 hours lecture

To offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced.

STUDY TECHNIQUES

STDY 80 — Studying and Learning: Foundations for Success 3 Units Not Degree Applicable

(May be taken for Pass/No Pass only)

54 hours lecture

Advisory: Eligibility for ENGL 67 or READ 80

Provides a foundation for life-long 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 85A — Test-Taking and Stress Management 1 Unit

Not Degree Applicable

18 hours lecture

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

Not Degree Applicable

18 hours lecture

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

Not Degree Applicable

18 hours lecture

Advisory: Eliaibility 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

Not Degree Applicable

18 hours lecture

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 goal setting and time management strategies.

STDY 85E — Memory and Concentration

1 Unit

Not Degree Applicable

18 hours lecture

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

Degree Applicable, CSU

54 hours lecture

Advisory: Eligibility for ENGL 68 or READ 100

Designed to increase student success in transfer college level courses. Provides a systematic approach to advanced study techniques for academic success in higher education. Develops the steps leading to successful transfer/transition to four-year institutions or careers.

SURVEYING

SURV 1A — Surveying 3 Units (CAN ENGR10) Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture 54 hours lab

Prereauisite: MATH 150

Surveying fundamentals; use and care of surveying instruments including steel tape, engineer's level, theodolite and total station; horizontal and vertical measurements; layout, traverse, area computations; analysis and adjustments of systematic and random errors; stadia surveying: mapping.

SURV 1B — Surveying

3 Units

Degree Applicable, CSU, UC

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

54 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

1 Unit

Degree Applicable

(May be taken for Pass/No Pass only)

18 hours lecture

Customer relations (soft skills) for the technician including benefits of knowing and using effective customer contact tools, proper customer interactions, ethics, and maintaining customer satisfaction.

THEATER ARTS

THTR 9 — Introduction to Theatre Arts
(CAN DRAM18) Degree Applicable, CSU, UC

54 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 Applicable, CSU, UC

54 hours lecture

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

(CAN DRAM08) 54 hours lecture

Introduction to the basic principles and techniques of acting as an artistic discipline. Analysis of the plot, characterization and language of the drama. Performances of laboratory scenes, readings and exercises.

THTR 12 — Principles of Acting II

3 Units

Degree Applicable, CSU, UC

Degree Applicable, CSU, UC

54 hours lecture

Prereauisite: THTR 11

(CAN DRAM22)

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

Degree Applicable, CSU, UC

(May be taken two times for credit)

36 hours lecture

(CAN DRAM12)

54 hours lab

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

te **2 Units** Degree Applicable, CSU, UC

(CAN DRAM16) (May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

108 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

(CAN DRAM14)

Degree Applicable, CSU, UC

36 hours lecture

36 hours lab

An introduction to the theory and practice of make-up for the stage. The student will gain practice in the design and application of straight, stylized character, and other make-up techniques.

THTR 17 — Acting for Television

3 Units

Degree Applicable, CSU, UC

54 hours lecture 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

Degree Applicable, CSU, UC

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

54 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 24 — Introduction to Theatrical Design

3 Units

Degree Applicable, CSU

36 hours lecture

54 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

Degree Applicable, CSU

54 hours lecture

Advisory: Eliaibility for ENGL 1A

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 Theatre

3 Units

Degree Applicable, CSU

(May be taken four times for credit)

(May be taken for option of letter grade or Pass/No Pass)

36 hours lecture

72 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 62 — Advanced Acting Scenework

1 Unit

Degree Applicable, CSU

(May be taken four times for credit)

54 hours lab

Prerequisite: THTR 11

Advanced acting workshop that focuses on the development and refinement of two-person acting scenes.

THTR 99 — Special Projects in Theatre

2 Units

Degree Applicable, CSU

(May be taken four times for credit)

36 hours lecture

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

Degree Applicable, CSU

54 hours lecture Advisory: AERO 23

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 Degree Applicable

36 hours lecture

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 industries, international law and treaties that affect aviation.

TUTOR TRAINING

TUTR 10A — Introduction to Tutoring

1 Unit

Not Degree Applicable

(May be taken for Pass/No Pass only)

18 hours lecture

Prereauisite: Eliaibility 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

1 Unit

Not Degree Applicable

(May be taken for Pass/No Pass only)

18 hours lecture

Prerequisite: Eligibility for ENGL 1A

Tutoring in the English language with an emphasis on approaches to working with students on written drafts and addressing the needs of non-native speakers.

TUTR 10C — Tutoring as a Supplemental Instructor 1 Unit

Not Degree Applicable

(May be taken for Pass/No Pass only)

18 hours lecture

Prerequisite: Eligibility for ENGL 1A

Tutoring as a Supplemental Instructor with an emphasis on tutoring in the classroom and in small groups under the supervision of a designated instructor.

TUTR 10D — Tutoring in Mathematics

1 Unit

Not Degree Applicable

(May be taken for Pass/No Pass only)

18 hours lecture

Prerequisite: MATH 71 or higher

Tutoring in mathematics with an emphasis on strategies to promote active learning using manipulatives and dealing with specific obstacles in developmental algebra.

TUTR 10R — Tutoring in Reading

1 Unit

Not Degree Applicable

(May be taken for option of letter grade or Pass/No Pass)
18 hours lecture

Advisory: Eligibility for READ 100

Introduction to tutoring reading. Includes methods of assessment, management of sessions, and application of strategic reading processes. This course prepares students to become reading tutors for all READ students.

WATER TECHNOLOGY

WATR 60 — Introduction to Water Systems

3 Units Degree Applicable

54 hours lecture

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 AWWA Water Distribution Operator Certification.

WATR 61 — Water Treatment

3 Units
Degree Applicable

54 hours lecture

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 62 — Water Distribution

3 Units Degree Applicable

54 hours lecture

Advisory: WATR 60 taken prior

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

ter 3 Units
Degree Applicable

54 hours lecture

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 Degree Applicable

54 hours lecture

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.

WATR 65 — Water Hydraulics and Instrumentation

3 Units Degree Applicable

54 hours lecture

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

WELD 30 — Metal Sculpture

2 Units

Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

18 hours lecture

54 hours lab

For students interested in art seeking the proper operation of welding processes related to the sculpting industry. Emphasizes the fundamentals of three-dimensional design. Includes demonstrations and exercises in welding as it relates to the art industry.

WELD 40 — Introduction to Welding

2 Units

Degree Applicable, CSU

18 hours lecture

54 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

Degree Applicable

18 hours lecture

54 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

108 h

2 Units Degree Applicable

18 hours lecture 54 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

Degree Applicable, CSU

54 hours lecture

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

Not Degree Applicable

54 hours lecture

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

Degree Applicable

18 hours lecture

108 hours lab

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.

WELD 70B — Intermediate Arc Welding

3 Units Degree Applicable

18 hours lecture 108 hours lab

Advisory: WELD 70A taken prior

A continuation of Beginning Arc Welding (WELD 70A). Emphasis is on welding high alloy steel with both SMAW and FCAW processes in the vertical and overhead positions. Designed to refine previously acquired welding skills.

WELD 70C — Certification for Welders

3 Units

Degree Applicable

18 hours lecture

108 hours lab

Advisory: WELD 70A taken prior

Study of building construction for the advanced arc welding student. Special emphasis will be placed on welding symbols and the American Welding Society's (AWS) D1.1 and D1.3.

WELD 80 — Fabrication and Construction Welding 3 Units

Degree Applicable

18 hours lecture

108 hours lab

Advisory: WELD 40, WELD 51, WELD 70A

Theory and practical applications of welding used in industry and construction. Designed to adapt and upgrade skills to industry standards. Includes project models such as ornamental iron gates and fences and material storage components.

WELD 81 — Pipe and Tube Welding

3 Units

Degree Applicable

18 hours lecture 108 hours lab

Advisory: WELD 70B, WELD 70C

Advanced course designed to enable students with "all positions" welding skills in SMAW to apply welding skills to the pipe welding industry. Welding processes will include SMAW, GRAW, GMAW, FCAW on a variety of materials and configurations on subcritical and critical piping and tubing.

WELD 90A — Gas Tungsten Arc Welding

3 Units

Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

18 hours lecture

108 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.

WELD 90B — Semiautomatic Arc Welding Process

3 Units

Degree Applicable, CSU

(May be taken for option of letter grade or Pass/No Pass)

18 hours lecture

108 hours lab

Advisory: WELD 70B taken prior

An integrated review of Semiautomatic Welding Processes including Gas Metal Arc Welding (GMAW), Flux Cored Arc Welding (FCAW), Submerged Arc Welding (SAW) with solid and tubular wires with and without gas shielding. All position welds with many varying thickness will be covered.

WELD 91 — Automotive Welding, Cutting and Modification 3 Units Not Degree Applicable

(May be taken for option of letter grade or Pass/No Pass)

18 hours lecture

108 hours lab

Advisory: WELD 70B taken prior

Instruction in the art of welding and cutting on metals commonly used in the automotive industry. Gas Metal Arc (MIG), Gas Tungsten Arc (GTAW), Plasma Arc cutting and oxyfuel cutting and welding will be covered.

WELD 96 — Work Experience in Welding

1 to 4 Units Degree Applicable

(May be taken four times for credit)

(May be taken for Pass/No Pass only)

75 to 300 hours lab

Prerequisite: Compliance with work experience regulations as designated in the college catalog.

Advisory: WELD 70B

Provides actual on-the-job experience in welding at an approved work site which is related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. Students who repeat this course will improve skills through further instruction and practice.

Section 11

Continuing Education



CONTINUING 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 Continuing 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 Continuing 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 Continuing Education Center. To schedule an individual appointment, students should call the Continuing 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 Continuing Education students for noncredit. Students may enroll in these classes in accordance with procedures outlined in the Continuing 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 215 of this catalog.)

Students wishing to complete a noncredit certificate program in one of the occupational areas of study must apply to the Continuing Education Division office, the Administration Building, building 4, room 221 to initiate the issuance of a certificate.

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 Continuing 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.

Other Continuing 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*)
- Continuing 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 Continuing 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.

	NONCREDIT LIST OF CERTIFICATES
Certificates of Competency	Electronics
	Computer and Networking Technology — Level 1
Basic Skills	Computer Systems Technology
Career Development	Electronic Assembly and Fabrication
English as a Second Language	Electronic Cabling and Wiring Technology — Level 1
Secondary Education	Electronic Cabling and Wiring Technology — Level 2
Certificates in Occupational Training	Electronic Technology
Accounting217	Electronics and Computer-Engineering Technology 221
Bookkeeping217	Electronics Communications
Computerized	Industrial Electronics
Payroll	Health Careers
Agricultural Science	Certified Nursing Assistant
Floral Design	Health Care Interpreting221
Horse Ranch Management217	Manufacturing Technology222
Interior Landscaping	Manufacturing Technology222
Landscape and Park Maintenance	MasterCAM
Landscape Design and Construction	Parametric Solid Modeling222
Landscape Equipment Technology	SurfCAM
Landscape Irrigation	Office Technology222
Livestock Management	Administrative Assistant – Level 1
Nursery Management	Administrative Assistant – Level 2
Park Management	Data Entry
Pet Science	Medical Office Specialist
Sports Turf Management	Office Computer Applications
Tree Care and Maintenance	Photographics
Business Management	Computer Graphics Design / Photography
Business Management – Level 1	Photography223
Business Management — Level 2	Special Needs Population
Business Management — Level 2	Job Readiness Skills
	Welding Technologies
Human Resource Management	Welding
	Licensed Welder
International Business — Level 2	Welder with Concentration in Automotive Welding,
Retail Management – Level 1	Cutting and Modification
Retail Management – Level 2	Welder with Concentration in Gas Tungsten ARC Welding 224
Retail Management – Level 3	Welder with Concentration in Semiautomatic
Small Business Management – Level 1	ARC Welding
Small Business Management — Level 2220	And welding224

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, 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 is	tourse ritie
BS ABE02	Adult Basic Education
BS ABE06	Basic Skills Foundation
BS LRN06	Personal Computer Applications
BS LRN01	Short-Term Review
BS LRN03	Math Skills Review
BS LRN72	Reading Acceleration
BS LRN76	Improving Reading Comprehension
BS LRN81	Improving Writing
BS MTH01	Developmental Mathematics Concepts and Applications
BS WRT2	Basic Writing Skills Development

Course Title

Career Development SYS #244852

Career development provides students with information and quidance 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 seguence of courses is offered days and evenings to accommodate adults with alternating schedules. For more information, please call (909) 594-5611, ext. 4845.

Certificate Reauirements:

Course ID	Course Title
BS ABE01	Career Information and Guidance
BS ABE02	Adult Basic Education
BS ABE03	Adult Basic Education — Leadership Development
BS ABE04	Guidance and Orientation to Special Programs
BS ABE05	Career Development
BS ABE06	Basic Skills Foundation
BS ABE07	Re-Entry Work Skills Needed for Today's Workforce
BS CNSL5	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 Reauirements:

cer ancace negan ements.		
Course ID	Course Title	
ESL PLVL1	ESL – Pre-Level 1	
ESL LVL1	ESL – Level 1	
ESL LVL2	ESL – Level 2	
ESL LVL3	ESL — Level 3	
ESL LVL4	ESL – Level 4	
ESL LVL5	ESL – Level 5	
ESL LVL6	ESL – Level 6	
ESL SPKA	ESL — Speaking A	
ESL SPKB	ESL — Speaking B	
ESL SPKC	ESL — Speaking C	

ESL TOEFL	TOEFL Preparation
ESL WRTA	ESL Writing A
ESL WRTB	ESL Writing B
ESL WRTC	ESL Writing C
ESL LANG3	English for Special Uses
BS LANG1	Language Skills Laboratory
ESL VHLTH	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.

Course Title

Certificate Requirements:

Course ID

	Course ID	course ritte
	BSHS ACDE	High School Academic Decathlon
	BSHS ADRW	High School Expository Writing and
		Critical Thinking
	BSHS ALG1	High School Algebra 1
	BSHS ALG2	High School Algebra 2
	BSHS ART1	High School Art and Creative Expression
	BSHS ART2	High School Art 2
	BSHS BIO	High School Biology
	BSHS CHEM	High School Chemistry
	BSHS CHN1	High School Chinese 1
	BSHS CIV	High School Civics/American Government
	BSHS CPTC	High School Computer Technology
	BSHS DIPR	High School Diploma and Referral
5	BSHS ECON	High School Economics
	BSHS EELA	High School CAHSEE Prep — English
		Language Arts
	BSHS EEMA	High School CAHSEE Prep — Mathematics
	BSHS ENG1	High School English 1
	BSHS ENG2	High School English 2
	BSHS ENG3	High School English 3
	BSHS ENG4	High School English 4
	BSHS GEOG	High School Geography
	BSHS GEOM	High School Geometry
	BSHS GRAP	High School Advanced Graphics/Printing
	BSHS HLTH	High School Health
	BSHS JOUR	High School Journalism
	BSHS KEY	High School Typing/Keyboarding
	BSHS LSC	High School Life Science

BSHS MTH2	High School General Math
BSHS MUSC	High School Music Appreciation
BSHS NS1	High School Natural Science 1
BSHS NS2	High School Natural Science 2
BSHS PHIL	High School Philosophy
BSHS PHSC	High School Physical Science
BSHS PLNG	High School Planning and Guidance
BSHS PREA	High School Pre-Algebra
BSHS PSY	High School Psychology
BSHS SSK	High School Study Skills
BSHS SS	High School Single Survival
BSHS SOC	High School Sociology
BSHS SPN1	High School Spanish 1
BSHS SPN2	High School Spanish 2
BSHS STG	High School Stagecrafts
BSHS TAL2	High School Topics in Algebra 2
BSHS TGEO	High School Topics in Geometry
BSHS USHS	High School United States History
BSHS VDEO	High School Video and Media Production
BSHS WHS	High School World History
BSHS WREX	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 Continuing 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 Continuing Education Division also offers fee-based Certificate Programs. These include:

- Accounting/Bookkeeping
- CPR and First Aid
- Medical Insurance Billing Specialist
- Phlebotomy

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:

- 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
- When all courses are completed, apply to the Continuing Education Office

Attendance and signatures will be verified by the Continuing Education Division staff. If all requirements are met, a Certificate of Completion will be prepared and delivered to the student.

Gettina Help

For more information regarding occupational training certificates, please call the Division office at (909) 594-5611, ext. 4220.

Educational Advisers are available to assist students with Career and Education Planning. During the first week of registration, they are available in the registration area, the Administration Building, building 4, room 221D. Times will be posted and students served on a first-come, firstserved basis. Advisers are also available by appointment during the semester. Please call (909) 594-5611. ext. 4845 to schedule an appointment.

OCCUPATIONAL - ACCOUNTING

Accounting – Bookkeeping SYS #538161

The Bookkeeping Certificate provides the student with the basic skills and knowledge for entry-level positions within the clerical/accounting field. Common duties performed in this field are posting transactions to journals/ledgers. accounts receivable, accounts payable, inventory tracking/reporting, bank reconciliation, expense reporting and account analysis. The sequence can be completed in one year, and courses are offered Fall and Spring semesters.

Certificate Requirements:

certificate negatients.		
Course ID	Course Title	
VOC BA07	Principles of Accounting – Financial, OR	
VOC BA72	Bookkeeping — Accounting	
VOC BA53	Ten-Key Calculations	
VOC B005	Business English, <u>or</u>	
VOC B025	Business Communications	

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.

Certificate Requirements:

Completion of Accounting – Bookkeeping Certificate (234 hours)

Course ID	Course Title
VOC BA75	Using Microcomputers in Financial
	Accounting
VOC BA76	Using Microcomputers in Managerial
	Accounting
VOC CSB15	Microcomputer Applications
VOC CP11	Internet Research for Business
VOC CP20	Microsoft Word

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 ournals/ledgers.

Certificate Requirements:

Completion of Accounting — Bookkeeping Certificate (234 hours)

Course ID	Course Title
VOC BA70	Payroll and Tax Accounting
VOC BS75	Using Microcomputers in Financial Accounting, <u>or</u>
VOC BA76	Using Microcomputers in Managerial Accounting

OCCUPATIONAL - AGRICULTURAL **SCIENCE**

Floral Design SYS #132282

This sequence is offered in the evening only on campus and at off-campus locations and can be completed in two years. Students completing all three courses will have skills and knowledge to seek jobs in floral design beyond entry-level positions, i.e., first-line supervision and/or management and Floral Designers.

Certificate Requirements:

Course ID	Course Title
VOC AGR25	Floral Design — 1
VOC AGR26	Floral Design — 2
VOC AGR27	Floral Design – 3

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.

Certificate Requirements:

Course ID	Course little
VOC AGN02	Animal Nutrition
VOC AGN94	Animal Breeding
VOC AGL16	Horse Production or
VOC AGL18	Horse Ranch Management
VOC AGL19	Horse Hoof Care
VOC AGL96	Animal Sanitation and Disease Control
VOC AGL97	Artificial Insemination of Livestock

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.

Certificate Requirements:

certificate negatients.		
Course ID	Course Title	
VOC AGR01	Horticultural Science	
VOC AGR13	Landscape Design	
VOC AGR15	Interior Landscaping	
VOC AGR24	Integrated Pest Management	
VOC AGR29	Ornamental Plants – Herbaceous	

VOC AGR32 VOC AGR62	Landscaping and Nursery Management Landscape Irrigation — Design and Installation
VOC AGR64	Landscape Irrigation — Drip and Low Volume

Landscape and Park Maintenance SYS #621629

This certificate is designed to give students basic skills in park landscape maintenance. Courses are offered annually. and prepare the student with skills that are appropriate for the maintenance of grounds, property or parks.

Certificate Requirements:

certificate negatiements.		
Course ID	Course Title	Hours
VOC AGR01	Horticultural Science	
VOC AGR24	Integrated Pest Management	
VOC AGR29	Ornamental Plants – Herbaceous	
VOC AGR30	Ornamental Plants — Trees and Woo Shrubs	dy
VOC AGR39	Turf Grass Production and Managen	nent
VOC AGR40	Sports Turf Management	
VOC AGR51	Tractor and Landscape Equipment Operations	
VOC AGR62	Landscape Irrigation — Design and Installation	
VOC AGR63	Landscape Irrigation System Management	
VOC AGR71	Landscape Construction Fundament	tals

Landscape Design and Construction SYS #919610

This certificate is designed to give students basic skills needed in employment with a landscape contractor. Employment potential is very good.

Cortificato Roquiroments

Certificate kequirements:	
Course ID	Course Title
VOC AGR01	Horticultural Science
VOC AGR13	Landscape Design
VOC AGR29	Ornamental Plants — Herbaceous
VOC AGR30	Ornamental Plants — Trees and Woody Shrubs
VOC AGR50	Soil Science and Management
VOC AGR51	Tractor and Landscape Equipment Operations
VOC AGR62	Landscape Irrigation — Design and Installation
VOC AGR71	Landscape Construction Fundamentals
VOC AGR72	Landscape Hardscape Applications

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.

Cortificato Poquiromente

certificate nequirements.		
Course ID	Course Title	
VOC AGR01	Horticultural Science	
VOC AGR51	Tractor and Landscape Equipment Operations	
VOC AGR52	Hydraulics	
VOC AGR53	Small Engine Repair I	
VOC AGR55	Diesel Engine Repair	
VOC AGR56	Engine Diagnostics	
VOC AGR57	Power Train Repair	
VOC AGR71	Landscape Construction Fundamentals	
VOC AGR72	Landscape Hardscape Applications	

Landscape Irrigation SYS #327645

This certificate is designed to give students basic skills in irrigation design, repair installation, water management and troubleshooting. Courses are offered Fall and Spring semesters. Jobs are plentiful with landscape contractors. schools, parks and cities.

Certificate Requirements:

Course ID	Course Title
VOC AGR01	Horticultural Science
VOC AGR13	Landscape Design
VOC AGR39	Turf Grass Production and Management
VOC AGR50	Soil Science and Management
VOC AGR51	Tractor and Landscape Equipment Operations
VOC AGR62	Landscape Irrigation — Design and Installation
VOC AGR63	Landscape Irrigation System Management
VOC AGR64	Landscape Irrigation — Drip and Low Volume
VOC AGR71	Landscape Construction Fundamentals

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.

Certificate Requirements:

Course ID	Course Title
VOC AGG01	Food Production, Land Use and Politics –
	a Global Perspective
VOC AGN01	Animal Science
VOC AGN02	Animal Nutrition
VOC AGN94	Animal Breeding
VOC AGL14	Swine Production
VOC AGL16	Horse Production
VOC AGL17	Sheep Production
VOC AGL30	Beef Production
VOC AGL34	Livestock Judging and Selection
VOC AGL96	Animal Sanitation and Disease Control
Plus select 2 cou	urses from the following:

	J .
VOC AGR71	Landscape Construction Fundamentals
VOC BM20	Principles of Business
VOC BM66	Small Business Management
VOC BS35	Professional Selling
VOC BS36	Principles of Marketing

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.

Certificate Requirements:

Course ID	Course Title
VOC AGR01	Horticultural Science
VOC AGR02	Plant Propagation/Greenhouse Management
VOC AGR24	Integrated Pest Management
VOC AGR29	Ornamental Plants – Herbaceous
VOC AGR30	Ornamental Plants — Trees and Woody Shrubs
VOC AGR32	Landscaping and Nursery Management
VOC AGR39	Turf Grass Production and Management
VOC AGR62	Landscape Irrigation — Design and Installation
VOC AGR64	Landscape Irrigation — Drip and Low Volume

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.

Certificate Requirements:

Course ID	Course Title
VOC AGR01	Horticultural Science
VOC AGR04	Park Management
VOC AGR05	Park Facilities
VOC AGR24	Integrated Pest Management
VOC AGR30	Ornamental Plants – Trees and Woody
	Shrubs
VOC AGR39	Turf Grass Production and Management
VOC AGR51	Tractor and Landscape Equipment
	Operations
VOC AGR62	Landscape Irrigation – Design and
	Installation
VOC AGR63	Landscape Irrigation System
	Management
VOC AGR75	Urban Arboriculture

Pet Science SYS #425556

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.

Certificate Requirements: Course ID Course Title

Course ID	Course ritte
VOC AGN01	Animal Science
VOC AGN02	Animal Nutrition
VOC AGN51	Animal Handling and Restraint
VOC AGN94	Animal Breeding
VOC AGL96	Animal Sanitation and Disease Control
VOC AGP70	Pet Shop Management
VOC AGP71	Canine Management
VOC AGP72	Feline Management
VOC AGP73	Tropical and Coldwater Fish Management
VOC AGP74	Reptile Management
VOC AGP76	Aviculture — Cage and Aviary Birds
VOC BM66	Small Business Management

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 is offered on an annual basis.

Certificate Requirements:

Course ID	Course Title
VOC AGR01	Horticultural Science
VOC AGR24	Integrated Pest Management
VOC AGR30	Ornamental Plants — Trees and Woody Shrubs
VOC AGR39	Turf Grass Production and Management
VOC AGR40	Sports Turf Management
VOC AGR50	Soil Science and Management
VOC AGR51	Tractor and Landscape Equipment Operations
VOC AGR62	Landscape Irrigation — Design and Installation
VOC AGR63	Landscape Irrigation Systems Management

Tree Care and Maintenance SYS #182769

This certificate is designed to give students basic skills in the repair and maintenance of trees.

Certificate Reauirements:

Course ID	Course Title
VOC AGR01	Horticultural Science
VOC AGR24	Integrated Pest Management
VOC AGR30	Ornamental Plants — Trees and Wood Shrubs
VOC AGR32	Landscape and Nursery Management
VOC AGR50	Soil Science and Management
VOC AGR51	Tractor and Landscape Equipment Operations
VOC AGR53	Small Engine Repair 1
VOC AGR75	Urban Aboriculture

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.

Certificate Requirements:

Course ID	Course Title
VOC BM20	Principles of Business
VOC BM61	Business Organization and Managemen
VOC BS36	Principles of Marketing

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.

Certificate Requirements:

Completion of: Business Management – Level I

PLUS the following:

Course ID

VOC BM60	Human Relations in Business
VOC BM62	Human Resource Management
VOC CSB15	Microcomputer Applications

Course Title

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.

Certificate Reauirements:

Completion of:

Causea ID

Business Management – Level 1 Business Management – Level 2

PLUS the following:

Course ID	Course little
VOC BA07	Principles of Accounting — Financial
VOC BM10	Principles of Continuous Quality
	Improvement

VOC BM51 Principles of International Business

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.

Certificate Requirements:

C ID

Course IV	Course little
VOC BM20	Principles of Business
VOC BM61	Business Organization and Management
VOC BM62	Human Resource Management

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.

Certificate Reauirements:

Course ID	Course Title
VOC BM20	Principles of Business
VOC BM51	Principles of International Business
VOC BS36	Principles of Marketing

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.

Certificate Requirements:

Completion of:

International Business Level 1

PLUS the following:

Course ID

VOC BM61	Business Organization and Management
VOC BM66	Small Business Management
VOC BS70	International Marketing Concepts

Course Title

Retail Management – Level 1 SYS #601197

Introductory certificate exposes students to the business world and the role of retail distribution. The Department has sequenced courses to maximize student time, and there are five emphasis areas: Business Management, Human Resource Management, International Business, Retail Management and Small Business Management.

Certificate Requirements:

Course ID	Course Title
VOC B025	Business Communications
VOC CSB15	Microcomputer Applications
VOC FSH62	Retail Store Management and Merchandising
VOC BS50	<u>or</u> Retail Store Management and Merchandising

Retail Management – Level 2 SYS #527217

Intermediate certificate builds upon the Level 1 Certificate to expose students to the various functions of managers in retail positions. The Department has sequenced courses to maximize student time, and there are five emphasis areas: Business Management, Human Resource Management, International Business, Retail Management and Small Business Management.

Certificate Requirements:

Completion of:

Retail Management – Level 1

PLUS the following:

Course ID	Course Title
VOC BA11	Fundamentals of Accounting
VOC BM61	Business Organization and Management
VOC BM62	Human Resource Management
VOC BS36	Principles of Marketing

Retail Management – Level 3

Students completing the advanced Level 3 Certificate will have knowledge and practical experience in business communication, leadership and financial controls. The Department has sequenced courses to maximize student time, and there are five emphasis areas: Business Management, Human Resource Management, International Business, Retail Management and Small Business Management.

Certificate Requirements:

Completion of:

Retail Management — Level 1 Retail Management — Level 2

PLUS the following:

Course ID Course Title

VOC BA07 Principles of Accounting – Financial
VOC BM60 Human Relations in Business
VOC BO26 Oral Communications for Business

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 Title
Principles of Business
Small Business Management
Principles of Marketing

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

PLUS the followina:

Course IDCourse TitleVOC BM60Human Relations in BusinessVOC BM61Business Organization and ManagementVOC BM62Human Resource Management

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.

Certificate Reauirements:

Course ID	Course Title
VOC CNT50	PC Servicing
VOC CNT52	PC Operating Systems
VOC CNT54	PC Troubleshooting
VOC CNT60	A+ Certification Preparation
VOC EL11	Technical Applications in Microcompute
	<u>or</u>
VOC CSB15	Microcomputer Applications
VOC EL50A	Electronic Circuits (DC)
VOC EL50B	Electronic Circuits (AC)
VOC EL56	Digital Electronics

Computer Systems Technology

The Computer Systems Technology curriculum encompasses advanced coursework in computer systems circuitry. This includes microprocessor programming codes and microprocessor interfacing circuits.

Certificate Requirements:

Course ID	Course Title
VOC EL11	Technical Applications in Microcomputer
VOC EL12	Computer Simulation and
	Troubleshooting
VOC EL50A	Electronic Circuits (DC)
VOC EL50B	Electronic Circuits (AC)
VOC EL51	Electronic Devices
VOC EL56	Digital Electronics
VOC EL61	Electronics Assembly and Fabrication
VOC EL74	Microprocessor Systems

Electronic Assembly and Fabrication

Course Title

SYS #352346

Course ID

This certificate prepares students to enter the electronics field as assembly and fabrication technicians.

Certificate Reauirements:

VOC EL50A	Electronic Circuits (DC)
VOC EL50B	Electronic Circuits (AC)
VOC EST50	Electrical Fundamentals for Cable Installations
VOC EL61	Electronic Assembly and Fabrication
VOC EL62	Advanced Surface Mount Assembly and Rework

Electronic Systems Technology – Level 1

SYS #258925

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.

Certificate Requirements:

certificate negatients.		
Course ID	Course Title	
VOC EST50	Electrical Fundamentals for Cable Installations	
VOC EST52	Fabrication Techniques for Cable Installations	
VOC EST54	Cabling and Wiring Standards	
VOC EL11 VOC CSB15	Technical Applications in Microcomputers Microcomputer Applications	

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 automation and home security systems.

Certificate Requirements:

Completion of:

Electronic Systems Technology – Level 1

PLUS the following:

LOS the following.		
Course ID	Course Title	
VOC EST56	Home Theater and Home Automation Systems	
VOC EST62	Electronic Troubleshooting — 1	
VOC TCH60	Customer Relations for the Technician	
VOC EST64	Electronic Troubleshooting — 2	
VOC EST70	C-7 Low Voltage Systems License Preparation	
VOC EL61	Electronic Assembly and Fabrication	
VOC EL62	Advanced Surface Mount Assembly and Rework	

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, by written information regarding term offering and correct course selection.

Certificate Reauirements:

Course ID	Course Title
VOC EL11	Technical Applications in Microcomputer
VOC EL50A	Electronic Circuits (DC)
VOC EL50B	Electronic Circuits (AC)
VOC EL51	Electronic Devices
VOC EL56	Digital Electronics
VOC EL61	Electronics Assembly and Fabrication
VOCTCH60	Customer Relations for the Technician

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. Jobs include, but are not limited to:

- Electrical and Electronics Installers and Repair
- Electrical and Electronic Engineering Technician
- **Electrical and Electronic Equipment Assemblers**

Certificate Requirements:

Course ID	Course Title	
VOC EL11	Technical Applications in Microcomputers	
VOC EL12	Computer Simulation and	
	Troubleshooting	
VOC EL50A	Electronic Circuits (DC)	
VOC EL50B	Electronic Circuits (AC)	
VOC EL51	Electronic Devices	
VOC EL53	Communications Circuits	
VOC EL54A	Industrial Electronics	
VOC EL54B	Industrial Electronic Systems	
VOC EL55	Microwave Communications	
VOC EL56	Digital Electronics	
VOC EL61	Electronics Assembly and Fabrication	
VOC EL74	Microprocessor Systems	
VOCTCH60	Customer Relations for the Technician	
Recommended Electives:		

VOC EDT11	Technical Engineering	g Drawing I
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VOC EL62	Advanced Surface mount Assembly and Rework
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.

Certificate Requirements:

cer uncute nequirements.	
Course ID	Course Title
VOC EL11	Technical Applications in Microcompute
VOC EL12	Computer Simulation and Troubleshooting
VOC EL50A	Electronic Circuits (DC)
VOC EL50B	Electronic Circuits (AC)
VOC EL51	Electronic Devices
VOC EL53	Communications Circuits
VOC EL55	Microwave Communications
VOC EL56	Digital Electronics
VOC EL61	Electronics Assembly and Fabrication
VOCTCH60	Customer Relations for the Technician

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.

Certificate Reauirements:

cer anteate negan ements.	
Course ID	Course Title Hours
VOC EL11	Technical Applications in Microcomputers
VOC EL12	Computer Simulation and Troubleshooting
VOC EL50A	Electronic Circuits (DC)
VOC EL50B	Electronic Circuits (AC)
VOC EL51	Electronic Devices
VOC EL54A	Industrial Electronics
VOC EL54B	Industrial Electronic Systems
VOC EL56	Digital Electronics
VOC EL61	Electronics Assembly and Fabrication
VOCTCH60	Customer Relations for the Technician

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 Requirements:

Course ID	Course Title
VOC HTH01	Certified Nursing Assistant
VOC HTH04	Acute Care Nursing Assistant
VOC HTH05	Health Careers Resource Center

Certified Nurse Assistant (CNA) Course Completion Only VOC HLTH 01

VOC HTH 01 is offered for "course completion only" during the Winter and Summer Intersessions. This course provides for employment in long term care only.

For further information, please contact the Health Careers Resource Center, (909) 594-5611, ext. 4788.

Health Care Interpreting

SYS #425877

Health care providers receiving Federal funds are required to provide interpreters for patients who speak a language other than English at home, if speakers of that language represent a significant portion of the population in the area. Therefore, the need for trained interpreters is growing rapidly. Many health care providers are choosing to upgrade the skills of their current employers through certificate programs such as ours.

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 Continuing-based health care settings and educational organizations, HCl 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 Reauirements:

(Successful completion of all courses listed below)		
Course ID	Course Title	
ESL VHLTH	English for Health Professionals	
(if determined necessary after evaluation of spoken and written English skills)		
VOC HTH12	Medical Terminology	
VOC ANA50	Basic Anatomy and Physiology	
VOC HTH13	Interpreting in Health Care Setting 1	
VOC HTH14	Interpreting in Health Care Setting 2	
VOC HTH05	Health Careers Resource Center	
(4 hours/week coaching sessions and 3hrs/wk arranged in HCRC, Fall and Spring semesters)		
VOC HTH15	Externship in Health Care Interpreting	
VOC HTH20	Health Care Interpreter Seminar	

Basic Requirements:

Applicants should have advanced academic proficiency in English, both spoken and written, and should be equally proficient in the language of service (Spanish or Mandarin).

To enroll in this program, you must attend an information meeting and complete the language 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. There are many occupational titles and opportunities in this field.

Certificate Requirements:

ecitimente negan emenos		
Course ID	Course Title	
VOC MF11	Manufacturing Processes I	
VOC MF12	Manufacturing Processes 2	
VOC MF15	AutoCAD 2-D	
VOC MF17	3-D CAD — Mechanical Modeling	
VOC MF19	Parametric Solid Modeling for	
	Manufacturing	
VOC MF38	MasterCAM I	
VOC MF38B	Advanced MasterCAM	
VOC MF39	SurfCAM I	
VOC MF39B	SurfCAM II	
VOC MF58	Blueprint Reading for Manufacturing	
VOC MF70	Technical Mathematics — Manufacturing Applications	
VOC MF85	Manual CNC (Computerized Numerical Control) Operations	
PLUS – Select 2 courses from the following:		

Manufacturing

AutoDesk Inventor

Introduction to Welding

MasterCAM

SYS #800999

Course ID

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.

Certificate Requirements:

VOC MF11	Manufacturing Processes I
VOC MF38	MasterCAM I
VOC MF38B	Advanced MasterCAM

Course Title

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.

Certificate Requirements:

Course ID

VOC MF15	AutoCAD 2D
VOC MF17	3-D CAD — Mechanical Modeling
VOC MF19	Parametric Solid Modeling for Manufacturing
VOC MF25	Advanced Mechanical Desktop
VOC MF27	AutoDesk Inventor

Course Title

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 is a highly specialized occupation.

Certificate Requirements:

Course ID

VOC ME11

VOCIVIETI	Manuacturing Processes i
VOC MF39	SurfCAM I
VOC MF39B	SurfCAM II
VOC MF85	Manual CNC (Computerized Numerical
	Control) Operations

Manufacturing Processes I

Course Title

OCCUPATIONAL – OFFICE TECHNOLOGY

Administrative Assistant – Level I

Prepares students for entry-level clerical positions where keyboarding is the primary function.

Certificate Requirements:

Course ID	Course Title	
VOC B005	Business English	
VOC CP01	Computer Keyboarding OR	
VOC CP01A	Computer Keyboarding AND	
VOC CP01B	Computer Keyboarding	
VOC CP12	Office Computer Applications OR	
VOC CSB15	Microcomputer Applications	
VOC CP28	Office Management Skills	

Administrative Assistant – Level 2 SYS #316457

This certificate prepares students for clerical positions where office organization and transcription skills are needed.

Certificate Requirements:

Completion of:

Completion of Administrative Assistant – Level I

PLUS the following:

Course ID	Course Title
VOC B025	Business Communications
VOC CP02	Intermediate Computer Keyboarding
VOC CP20	Word for the Business Professional
	<u>or</u>
VOC CP68	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.

Certificate Requirements:

Course ID	Course Title
VOC CP02	Intermediate Computer Keyboarding
VOC CP12	Office Computer Applications
	<u>or</u>
VOC CSB15	Microcomputer Applications
VOC CP18	Data Entry

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 assistants-medical, medical office managers or other office support staff in the medical field.

Certificate Requirements:

Course ID	Course Title
VOC BA72	Bookkeeping – Accounting
VOC B005	Business English
VOC B025	Business Communications
VOC CP01	Computer Keyboarding
VOC CP02	Intermediate Computer Keyboarding
VOC CP12	Office Computer Applications OR
VOC CSB15	Microcomputer Applications
VOC CP18	Data Entry
VOC CP20	Microsoft Word
VOC CP28	Office Management Skills
VOC CP68	Transcription Techniques
VOC HTH12	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.

Certificate Requirements:

Course ID	Course Title
VOC CPBC1	Basic Computing — Level 1
VOC CPBC2	Basic Computing — Level 2
VOC CPBC3	Basic Computing — Level 3
VOC CPNET	Internet Research — An Introduction
VOC CPCC	Creative Computing

VOC MF25

VOC MF27

VOC WL40

Advanced Parametric Solid Modeling for

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. Employment will vary among several industries such as computer gaming, movie production, music video production, commercials and animation.

Cortificate Requirements

certificate requirements:		
Course ID	Course Title	
VOC GRP1	Computer Graphics Lab	
VOC GRP10	Photo Editing with Photoshop	
VOC GRP12	Advanced Photoshop	
VOC GRP14	Digital Color Management	
VOC GRP16	Digital Image Design	
VOC GRP20	Applying Photos and Images in Multimedia	
VOC GRP28	Digital Portfolio	
VOC PHO10	Basic Digital and Film Photography	
VOC PH017	Photocommunications	
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 — 3D Modeling
	Technology
VOC PH001	Laboratory Studies: Black and White
	Photography
VOC PH002	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.

Certificate Requirements:

Cource Title

Course ID	Course little
VOC GRP10	Photo Editing with Photoshop
VOC PH010	Basic Digital and Film Photography
VOC PH011	Advanced Professional Photography
VOC PH012	Photographic Alternatives OR
VOC PH021	Exploring Color Photography
VOC PH016	Fashion Photography OR
VOC PH018	Portraiture and Wedding Photography
VOC PH017	Photocommunication
VOC PH020	Color Photography
VOC PH028	Photography Portfolio Development
VOC PH030	Commercial and Illustrative Photograph

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 PH001	Laboratory Studies: Black and White
	Photography

VOC PHO02 Laboratory Studies: Color Photography

VOC PH015 History of Photography

OCCUPATIONAL - SPECIAL NEEDS **POPULATION**

Job Readiness Skills SYS #798265

(San Gabriel Valley Training Center)

This Certificate provides hands-on job training in computer and assembly skills for the entry-level worker. Participants will improve their opportunities for employment and career advancement.

Certificate Requirements:

Course ID	Course Title	
VOC CISCO	Computer Operations	
VOC MFAR	Assembly/Repair Skills	

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.

Certificate Reauirements:

Course ID	Course Title
VOC WL40	Introduction to Welding
VOC WL70A	Beginning ARC Welding
	Note: Any higher level welding course may be substituted for VOC WLD 70A.
VOC WL70B	Intermediate ARC Welding

Recommended Electives:

The Welding faculty recommends that students complement their studies with selected elective courses chosen from the list below. Students should meet with a professor of Welding to help you determine which of those electives would best suit your career plans.

Technical Mathematics – Manufacturing VOC MF70

Applications

VOC WL60 Print Reading and Computations for

Welders

VOC WL70C Certification for Welders

Licensed Welder SYS #919193

This certificate is designed to prepare students for entrylevel employment as a licensed welder in the broad field of welding, including manufacturing, construction, fabrication and repair. Through theoretical and hands-on skills coursework, students prepare for industry licensing with an understanding of current guidelines and standards. Particular emphasis is placed on those competencies required for certification in structural steel welding. Course sequences can be modified to reflect industry experience or other individual needs.

Cortificato Poquiromantes

Certificate kequirements:			
Course ID	Course Title		
VOC WL40	Introduction to Welding		
VOC WL50	Oxyacetylene Welding		
VOC WL51	Basic Electric Arc Welding		
VOC WL53A	Welding Metallurgy		
VOC WL60	Print Reading and Computations for Welders		
VOC WL70A	Beginning Arc Welding		
VOC WL70B	Intermediate Arc Welding		
VOC WL70C	Certification for Welding		
VOC WL80	Fabrication and Construction Welding		
VOC WL81	Pipe and Tube Welding		

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

PLUS the following:

Course ID Course Title
VOC WL91 Automotive Welding, Cutting 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:

Hours

Licensed Welder Certificate

PLUS the following:

Course ID Course Title

VOC WLD90A Gas Tungsten ARC Welding

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 Requirements:

Completion of:

Hours

54

Licensed Welder Certificate

PLUS the following:

Course ID Course Title

VOC WL90B Semiautomatic ARC Welding Process

NONCREDIT COURSE LISTINGS				
Basic Skills	Geography	. 230	English as a Second Language (ESL)	
	Geometry		English as a Second Language (ESL)	
Adult Basic Education	Graphics/Printing, Advanced		English for Specific Uses	
Adult Basic Education — Leadership Development 229	Health Education		For Health Professionals	
Basic Skills Development – Reading & Writing 229	Journalism		Levels 1-6 and Pre-Level 1	
Basic Skills Foundation	Life Science		Speaking A , B and C	
Career Development	Mathematics, General		Writing A, B and C	
Career Information and Guidance	Music Appreciation		TOEFL Prep	232
Career/Life Planning229	Natural Science 1		Health & Safety	
Developmental Mathematics — Concepts and Application 229	Natural Science 2		·	222
Guidance and Orientation to Special Programs229	Philosophy		Intravenous Therapy for Radiologic Technology	232
Re-Entry Work Skills Needed for Today's Workforce 229	Physical Science		Physical Fitness and Conditioning – Football	
Basic Skills – Review	Planning and Guidance		Physical Fitness and Conditioning — Weight Training	
	Pre-Algebra		Physical Fitness and Conditioning – Wrestling	
Improving Reading Comprehension	Psychology		Water Safety — Phase 1	232
Improving Writing	Single Survival "On Your Own" — Preparation for Adult Living		Occupational – Administrative Justice	
Language Skills Laboratory	Stagecrafts		Administration of Justice Report Writing	222
Learning Support Laboratory	Study Skills		Administration of the Justice System	
Math Skills Review	Sociology		Community Relations	
Personal Computer Applications	Speech and Communication		Concepts of Criminal Law	
Reading Acceleration	Spanish 1 — Conversation and Writing		Concepts of Enforcement Services	
Short-Term Review	Spanish 2		Concepts of Traffic Services	
Basic Skills – Secondary Education (High School)	Topics in Algebra 2		Gangs in the Community/Corrections	
Academic Decathlon	Topics in Geometry		Legal Aspects of Evidence	
Algebra 1	Typing/Keyboarding		Narcotics Investigation	
Algebra 2	United States History		Principles and Procedures of Justice System	
Art and Creative Expression	Video and Media Production		Principles of Investigation	
Art 2	World History		Vice Control	
Biology		. 231	vice control	233
CAHSEE Prep — English Language Arts	Basic Skills — Tutoring		Occupational – Agricultural Science	
CAHSEE Prep — Mathematics	All Subjects Tutoring	. 231	Animal Breeding	233
Chemistry	Language Arts Tutoring		Animal Handling and Restraint	
Chiese 1	Mathematics		Animal Sanitation and Disease Control	
Civics/American Government 230	Supplemental Instructor, Tutoring as a		Animal Science	
	Tutoring, Introduction to		Animal Nutrition	
Computer Technology	Tutoring Techniques		Artificial Insemination of Livestock	
l ·			Aviculture — Cage and Aviary Birds	
Earth Science	Citizenship		Beef Production	
Economics	Citizenship for Naturalization	. 231	Canine Management	
English 1	21.11.14		Diesel Engine Repair	
English 2	Disabled Students		Engine Diagnostics	
English 3	Adaptive Academic Preparation		Exotic Animal Management	
English 4	Clinical Speech Instruction		Feline Management	
Expository Writing	High Tech Center Tutorial/Assistance Class		Floral Design 1, 2 and 3	
Expository Writing and Critical Reading229	Lifelong Learning for the Special Needs Population	. 232	Florar Design 1, 2 and 3	234

NONCREDIT COURSE LISTINGS (continued) Food Production, Land Use and Politics — A Global Perspective . . . 233 Occupational — Business Continuous Quality Improvement (CQI), Principles of 235 Continuous Quality Improvement (CQI), Team Building 235 Occupational — Computer Technology Home Theater, Home Integration and Home Security Systems 237 Occupational - Correctional Science Occupational – Electronics Occupational - Computer Operations Occupational — Architectural Technology Architectural Computer Aided Design (CAD), Advanced 235 Architectural Computer Aided Design (CAD) 3-D Illustration

NONCREDIT COURSE LISTINGS (continued)				
Mathematics of Electronics – DC	Certified Nursing Assistant240	Occupational – Photography & Photographics		
Mechatronics, An Introduction	Geriatric Resource Specialist			
Microprocessor Systems Lecture/Interfacing Laboratory 239	Health Careers Resource Center	3D Modeling Techniques, Advanced Image Design		
Microwave Communications Lecture/Laboratory	Health Care Interpreting, 1 and 2	Applying Photos and Images in Multimedia		
Microcomputers, Technical Applications	Health Care Interpreting, Externship241	Color Photography		
Radio/Telephone Communications	Health Care Interpreting Seminar	Commercial and Illustrative Photography		
Surface Mount Assembly and Rework, Advanced 239	In-Home Care of Alzheimer's and Dementia Clients 241	Computer Graphics Laboratory		
	Medical Terminology241	Digital and Film Photography, Basic		
Occupational — Electronics & Computer Technology	J,	Digital Cameras and Composition		
C-7 Low Voltage Systems License Preparation	Occupational – Hotel & Restaurant Management	Digital Color Management		
Cabling and Wiring Standards239	Catering			
Electrical Fundamentals for Cable Installation	Commercial Food Preparation	Digital Image Design with Illustrator & Freehand		
Electronic Troubleshooting 1 and 2	Dining Room Service Management	Digital Photography for the Beginner		
Fabrication Techniques for Cable Installation	Fast Food Service Management	Digital Portfolio		
Home Theater, Home Integration and Home Security Systems 239	Food Safety/Sanitation241	Exploring Color Photography		
Occupational – Engineering Design	Hospitality, Introduction to	History of Photography		
	Hospitality Financial Accounting241	Laboratory Studies in Black & White Photography		
Basic CAD and Computer Applications	Hospitality Law241	Laboratory Studies in Golor Photography		
Civil Engineering Technology and CAD	Lodging, Introduction to	Photo Editing with Photoshop		
Engineering CAD Applications	Management of Hospitality Personnel and Operations 241	Photo Editing with Photoshop, Advanced		
Engineering CAD 3-D Solids and Surfaces	Menu Planning241	Photocommunication		
Mechanical Design — Geometric Dimensioning and Tolerancing 239	Purchasing for the Restaurant Industry	Photographic Alternatives		
Technical Engineering Drawing 1 and 2	Restaurant Cost Control	Photography Portfolio Development		
Occupational – Fashion Design	Occupational – Interior Design	Portraiture and Wedding Photography		
Clothing Fundamentals	Fundamentals of Interior Design	Professional Photography, Advanced		
Clothing, Advanced	Tullualifetitals of lifterior besign	Troressional Filotography, Naturicea		
Fashion, Introduction to	Occupational — Manufacturing Technology	Occupational – Service Learning		
Fashion Computer Assisted Drawing	3-D CAD for Mechanical Modeling	Service Learning/Seminar for Health Occupations 243		
Fashion Design and Product Development 1, 2 and 3 240	AutoCAD 2-D	Service Learning/Seminar in Community Involvement 243		
Fashion Design by Draping	AutoDesk Inventor	Service Learning and Community Involvement		
Fashion Patternmaking by Computer	Blueprint Reading for Manufacturing242	Occurational Consist Novels		
Fashion Strategies	Manual CNC (Computerized Numerical Control) Operations 242	occupacional – Special Needs		
Illustration for Fashion and Costume Design	Manufacturing Processes, 1 and 2	Assembly Repair Skills		
Patternmaking 2	MasterCAM 1	Computer Operations		
Patternmaking, Basic	MasterCAM, Advanced242	Occupational – Stained Glass Production		
Retail Store Management and Merchandising	MasterCAM Solids242	Stained Glass, Advanced		
	Parametric Solid Modeling for Desktop, Advanced 242			
Occupational — Geography	Parametric Solid Modeling for Manufacturing			
Geographic Information Systems, Introduction to	SurfCAM, 1 and 2242	Occupational – Theater & Theater Arts		
Occupational - Health	Technical Mathematics — Manufacturing Applications	Children's Theater		
•		Play Rehearsal and Performance		
Acute Care Nursing Assistant	Occupational - Nutrition	Stagecraft		
Anatomy and Physiology, Basic	Cooking for your Heart and Health242	Technical Theater Practicum		
BLS Heartsaver Course — Adult	Vegetarian Cuisine	ZTT		

Occupational — Welding Pipe and Tube Welding244 Print Reading and Computations for Welders 244 Welding Metallurgy244 Occupational – Woodworking Woodworking, Beginning244 Older Adults Creative Writing — Poetry245 Decorative Art Production for Retail Sales, Beginning 246 Decorative Art Production for Retail Sales, Intermediate 246

NONCREDIT COURSE LISTINGS (continued)
Exhibition Design and Professional Practice, An Introduction 245
Fall Prevention – Balance and Mobility
Handcrafted Needlework for Retail Sales and Boutiques 246
Health Cooking245
Jazz Band
Jazz Improvisation
Jazz Improvisation — Instrumental or Voice
Jewelry/Lapidary Production Design
Jewelry Production and Design for Retail Sales
Laboratory Band246
Lettering Styles and Advertising Calligraphy246
Lifelong Learning for Older Adults
Lifelong Learning — Crafts
Lifelong Learning — Current World Events245
Lifelong Learning — Physical Fitness
Mobility through Exercise — Physical Conditioning
Mobility through Exercise — Physical Fitness using Music 246
Mobility through Exercise — Slow Stretch/Tai Chi Movement 246
Mobility through Exercise — Strength Training using
Resistance Bands
Mobility through Exercise — Yoga
Mobility through Exercise — Water Exercise
Oil Painting
Painting
Printmaking – Relief & Lithography
Printmaking — Silk Screen and Intaglio
Printmaking — Silk Screening
Production of Boutique Craft for Retail Sales
Sculpture, Beginning245
Sculpture, beginning
Sculpture – Mold Making245
Sculpture — Mold Making
Self-Defense, Beginning
Sewing and Design
Watercolor Painting
Parent Education
Parent Participation Pre-School246

BASIC SKILLS

BS 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.

BS 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.

BS ABE03 — Adult Basic Education—Leadership Development
Leadership styles and individual leadership skills including effective
communication, facilitation, problem-solving, decision-making and
conflict resolution. Introduction to organizational structures, governance
models and group process.

BS 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.

BS 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.

BS 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.

BS 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.

BS CNSL5 — 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.

BSHS ACDE — 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.

BSHS ADRW — 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.

BSHS ALG1 — 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.

BSHS ALG2 — 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.

BSHS ART1 — 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.

BSHS ART2 — 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.

BSHS BIO — 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.

BSHS CHEM — 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.

BSHS CHN1 — 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.

BSHS CIV — 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.

BSHS CPTC — 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.

BSHS DIPR — 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.

BSHS EASC - 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.

BSHS ECON — 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.

BSHS EELA — 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.

BSHS EEMA — CAHSEE Math Prep

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.

BSHS ENG1 — 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.

BSHS ENG2 — 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.

BSHS ENG3 — 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.

BSHS ENG4 — 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.

BSHS GEOG — 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.

BSHS GEOM — 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.

BSHS GRAP — High School Advanced 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.

BSHS HLTH — 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.

BSHS JOUR - 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.

BSHS KEY — 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.

BSHS LSC — 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.

BSHS MTH2 — 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.

BSHS MUSC — 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.

BSHS NS1 — 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.

BSHS NS2 — 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.

BSHS PHIL - 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.

BSHS PHSC — 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.

BSHS PLNG — 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.

BSHS PREA — 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.

BSHS PSY — 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.

BSHS SOC — 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.

BSHS SPCH - 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.

BSHS SPN1 — High School Spanish, 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.

BSHS SPN2 — 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.

BSHS SS — High School - Single Survival "On Your Own - Preparation for Adult Living

This course 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.

BSHS SSK — 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.

BSHS STG — 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.

BSHS TAL2 — 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.

BSHS TGEO — 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.

BSHS USH — 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.

BSHS VDEO — 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.

BSHS WHS — 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.

BSHS WREX — 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.

BS LANG1 — 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.

BS LANG2 - ESL Computer/Language Skills Lab

Enhance student's communication skills by providing access to the internet, thereby completing assignments for courses offered throughout the college.

BS LRN01 — 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.

BS LRN03 — 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.

BS LRN06 — 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.

BS LRN50 — 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.

BS LRN72 — 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.

BS LRN76 — Improving Reading Comprehension

Prepares students for reading informational materials. Topics include spelling, reading comprehension, dictionary usage and how to read a textbook.

BS LRN81 — 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.

BS MTH01 — **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.

BS WRT2 — 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 on-line tools.

BS TR10A — Introduction to Tutoring

Introduction to tutoring, with an emphasis on tutoring strategies, problem solving, and working with a diverse student population.

BS TR10B — Tutoring in the Language Arts

Prerequisite: Permission of Tutorial Specialist Tutoring in the language arts with an emphasis on approaches to working with students on written drafts and addressing the needs of non-native speakers.

BS TR10C — 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.

BS TR10D — 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.

BS TR01 — All Subject Tutoring

Assistance in basic English and mathematics skills through tutoring and computer-based learning. Tutorial assistance in other subject areas is also available.

BS TR02 — Tutoring Techniques

Explores learning theories and tutoring techniques for tutoring individuals and small groups. Emphasis is placed on encouraging independent learning.

CITIZENSHIP

CITZ NAT — Citizenship for Naturalization

Intermediate and advanced students prepare for the interview for United States citizenship.

DISABLED STUDENTS

DSPS ELLO1 — **Lifelong Learning for the Special Needs Population** Educational activities for special needs students emphasizing physical, cognitive, social and emotional skill development.

DSPS LRND1 — 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 LRND2 — 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 LRND3 — 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 LANG3 — 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 LVL1 — ESL - Level 1

Beginning to low English students build vocabulary, grammar and communication skills.

ESL LVL2 — 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 LVL3 — 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 LVL4 — 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 LVL5 — 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 LVL6 — 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 PLVL1 — 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 SPKA — 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 SPKB — 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 SPKC — 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 VHLTH — **English As A Second Language for Health Professionals**Advanced ESL students improve medical vocabulary and English skills for healthcare situations.

ESL WRTA — 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 WRTB — 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 WRTC — 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 AND SAFETY

HLSF PEWT — **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 PEWRS — **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 PEFTB — 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 PEWEX — 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.

HLSF PEWP — Physical Conditioning - Water Polo

Water Polo training to improve overall fitness and conditioning. Water polo drills and dry land exercises will be used to improve participant's strength, agility and aerobic condition.

OLDER ADULTS

OAD AT14 — 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 AT15B — Drawing: Beginning

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 AT20 — 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 AT25A — Painting

Emphasizes creative self-expression through the painting media. Students will develop the ability to conceptualize and solve compositional and technical painting problems.

OAD AT30A — Ceramics

An exploration of ceramic techniques and creative expression. Includes vocabulary, theory, elements and principles of ceramic form through projects and critique.

OAD AT33 — Ceramics: Hand Construction

Basic methods of hand construction. Special projects in structural, architectural and sculptural form.

OAD AT40A — Sculpture - Beginning

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 AT41A — Sculpture - Life

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 AT41B — Sculpture - Life

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 AT42 — 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 AT43 - Introduction to Printmaking

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.

OAD AT44 — Printmaking - Relief and Lithography

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.

OAD AT45 - Printmaking - Collagraph/Monotype/Silkscreen

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.

OAD AT46 — Sculpture: Special Effects Makeup

Advisory Prerequisite: OAD AT 41A and/or OAD AT42
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 ELLO2 — **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 ELLO3 — 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 ELLO4 — 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 ELLO5 — 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 FNA01 — 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.

OAD FNA03 — 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.

OAD FNA04 — 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.

OAD FNA05 — 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 FNA32 — 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.

OAD FKA04 — 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.

OAD HTH02 — 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 MOX01 — 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 MOXO2 — 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 MOXO4 — 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 MOX06 — 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 MOX07 — 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 MOXO9 — 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 MOX10 — 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 MOX11 — 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 MUSCE — 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 MS01 — 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 MS19 — Elementary Organ

Group and individual instruction in registration, pedal technique, and interpretation of standard organ literature will be given in this course.

OAD MS25A — 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 MS25B — 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 MS30 — 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 MS32 — 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 MS36 — 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 MS38 — 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 MS39 — 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 MS47 — 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 — Intermediate Ceramic Productions

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 CHLD1 — 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.

OCCUPATIONAL — ADMINISTRATIVE JUSTICE

VOC ADJ01 — The Administration of Justice System

History and philosophy of the justice system, subsystems, roles, relationships and theories of crime causation and correction.

VOC ADJO2 — **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 ADJ03 — Concepts of Criminal Law

Provides an overview of California criminal law from the perspective of the law enforcement officer.

VOC ADJ04 — Legal Aspects of Evidence

Introduction to criminal evidence, including admissibility, witness competency, privileged communication, hearsay and collection and preservation of evidence.

VOC ADJ05 — 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 ADJ06 — Concepts of Enforcement Services

Responsibilities, techniques and methods of police patrol with emphasis on the basic knowledge required in handling common police occurrences.

VOC ADJ13 — 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 ADJ20 — 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 ADJ38 — Narcotics Investigation

Investigation techniques for drug enforcement. Drug effects, use of informants, amendment issues and handling of evidence.

VOC ADJ59 — 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 ADJ68 — Administration of Justice Report Writing

Techniques for proper documentation of crime reports and related law enforcement records. Use of simulations and role-playing.

VOC ADJ74 — 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 AGG01 — 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 AGN01 — 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 AGN02 — Animal Nutrition

Composition of feeds and their utilization by domestic animals, including digestive physiology, animal assessment, feed appraisal and compiling of rations.

VOC AGN51 — 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 AGN94 — 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 AGL12 — 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 AGL14 — 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 AGL16 — 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 AGL17 — 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 AGL18 - 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 AGL19 - Horse Hoof Care

Emphasizes proper horse hoof care; shoeing, trimming and disease recognition and control.

VOC AGL20 — 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 AGL30 — 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 AGL34 — 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 AGL96 — 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 AGL97 — 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 AGR-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 AGR01 — 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 AGRO2 — 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 AGR04 — Park Management

Management and operation of municipal park departments. Includes the development of budgets, purchasing, park policies, planning and scheduling.

VOC AGR05 — 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 AGR13 — 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 AGR15 — Interior Landscaping

Design, Installation and maintenance practices used in interior landscaping. Includes identification, culture and care of plants suitable for interior use.

VOC AGR24 — 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 AGR25 — 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 AGR26 — 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 AGR27 — 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 AGR29 — 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 AGR30 — 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 AGR32 — 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 AGR39 — 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 AGR40 — 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 AGR50 — Soils 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 AGR51 — 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 AGR52 — 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 AGR53 — Small Engine Repair 1

Principles and repair of small engines used in landscape, industrial and agricultural applications. Includes repairs of lawnmowers, chainsaws, 2cycleengine, 4-cycle engine, spraying equipment, all-terrain vehicles, and other related gas-powered equipment.

VOC AGR55 — 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 AGR56 — 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 AGR57 — 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 AGR62 — 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 AGR63 — 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 AGR64 — Landscape Irrigation - Drip and Low Volume

Conservation of water in the landscape by utilization of drip and lowflow irrigation practices. Design, installation techniques, operation and maintenance of drip and low-flow irrigation systems, including determination of irrigation requirements, selection of emitters and lowflow devices, and uniformity of water distribution. Students will gain hands-on experience in design and installation techniques.

VOC AGR71 — 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 AGR72 — 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 AGR73 — 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 AGR75 — 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 AGP70 — 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 AGP71 — 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 AGP72 — Feline Management

Care and management of cats. Includes breed identification and characteristics, grooming, showing, nutrition, practical care, behavior, breeding and housing.

VOC AGP73 — Tropical and Coldwater Fish Management

Care and keeping of marine and freshwater aguarium fishes, plants and invertebrates. Includes guidance on setting up aguariums, choosing compatible species, feeding, health care, breeding and raising fish.

VOC AGP74 — 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 AGP76 — 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 ARC11 — Architectural Drawing

Basic graphic and drawing techniques, including architectural graphics, building construction fundamentals, and methods of drawings considered prerequisite to architectural design.

VOC ARC16 — 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 ARC18 — 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 ARC26 — 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 ARC28 — 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 BA07 — Principles of Accounting - Financial

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 BA11 — 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 BA53 — 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 BA68 — Business Mathematics

Reviews addition, subtraction, multiplication, division, decimals, percentages, fractions, sign numbers, equations and problem solving.

VOC BA70 — 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 BA71 — 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 BA72 — 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 BA75 — **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 BA76 — **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,

VOC BM10 — **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

financial statement analysis, and statement of cash flows.

of quality are presented. Relevant case studies are included.

VOC BM12 — Continuous Quality Improvement Team Building Advisory Prerequisite: VOC BM 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 BM20 — 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 BM25 — 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 Web sites.

VOC BM51 — 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 BM52 — 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 BM60 — 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 BM61 — 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 BM62 — 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 BM66 — 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 BM85 — 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 BOO5 — Business English

Skills and techniques of English, as applied to business situations. Emphasis on effective paragraphs and memos.

VOC B025 — 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 BO26 — 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 B096 — Spelling and Vocabulary for Success

Advisory Prerequisite: VOC BO05

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 BO 96A and VOC BO 96B are equivalent to VOC BO 96.

VOC BO96A — 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 BS35 — 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 BS36 — 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 BS50 — 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 BS70 — 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 BS85 — 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 CSB15 — 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 CPBC1 — Basic Computing Level 1

Introduction to the personal computer, including terminology and basic computer operations in a Windows environment. Instruction is handson. 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 CPBC2 — 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 CPBC3 — 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 CPCC — 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 CPCL — Computer Laboratory

A lab study program designed to complement the lecture materials presented in computer program instructional courses.

VOC CPNET — Internet Research - An Introduction

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.

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 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 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 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.

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 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.

OCCUPATIONAL — COMPUTER TECHNOLOGY

VOC CNT50 — PC Servicing

PC and peripheral servicing techniques, preventative maintenance, hardware configurations, software configurations, software diagnostics, and the use of test equipment.

VOC CNT52 — **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 CNT54 — **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 CNT56 – 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 CNT60 — 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 CNT62 — 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 CRS10 — 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 CRS15 — Control and Supervision of the Offender

Examine methods of controlling and supervising inmates. Emphasizes California's methods in rapidly-expanding institutions.

VOC CRS20 — Correctional Law

Legal and due process rights for inmates. Inmate rights vs. needs of society, State, federal and appellate court decisions.

VOC CRS25 — 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 CRS30 — 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 CRS35 — 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 CRS40 — 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 CRS45 — 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 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 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 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 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 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 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 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 EL61 — Electronic Assembly and Fabrication

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 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

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 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 EM65A — 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 EM65B — 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 AND 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 VoltageSystems 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.

Continuing Education

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 AND FASHION DESIGN

VOC FSH08 — 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 FSH09 — History of Costume and Fashion

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.

VOC FSH10 — Clothing Construction 1

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 FSH12 — Clothing Construction 2

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 FSH15 — 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 FSH17 — Textiles

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.

VOC FSH20 — 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 FSH21 — Patternmaking 1

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 FSH22 — 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 FSH23 — 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 FSH24 — 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 FSH25 — 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 FSH30 — 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 FSH31 — 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 FSH32 — 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 FSH62 — 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 GOG10 — 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;

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 ANA50 — 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 eartsaver CPR Level A Completion Card, renewable in two years.

VOC HTH01 — Certified Nursing Assistant

Prepares participant to work in a skilled nursing facility and pass California Long-Term Care CNA exam.

Prerequisites:

- Current American Heart Association BLS for Health Care Providers card (must be valid for course duration)
- Completed Technology and Health Division Student Medical History and Physical exam form within the last 3 months
- Current Live scan fingerprint documentation.
- Valid identification (CA driver's license or CA.ID card) and Social Security card

Co-requisite:

Enrollment in VOC HLTH 05

VOC HTH04 — Acute Care Nursing Assistant

This course will enhance the existing skills of the CNA and provide the knowledge and job skills to work in various departments of acute care hospitals including med-surgical, obstetrics and pediatrics. Prereauisites:

- Documentation of completion of CNA Course and successful pass on CNA certification exam
- Current American Heart Association BLS for Health Care Providers card (must be valid for course duration)
- Completed Technology and Health Division Student Medical History and Physical exam form within the last 3 months
- Current Live scan fingerprint documentation.
- Valid identification (CA driver's license or CA ID card) and Social Security card

VOC HTH05 — Health Careers Resource Center

Provides health occupational students with instructional media and equipment to practice and improve nursing and other health occupation competencies.

VOC HTH12 — 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 HTH13 — 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 HTH14 — 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 HTH15 — Externship in Health Care Interpreting

Corequisite: VOC HTH20

Healthcare Interpreting Seminar Facilitating linguistic and cultural communication between client and health care providers.

VOC HTH16 — 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 HTH18 — 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 HTH20 — 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.

VOC RDTEC — Interavenous 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 — HOTEL AND 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.

Continuing Education

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.)

OCCUPATIONAL — MANUFACTURING TECHNOLOGY

VOC MF11 — Mfg 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 MF12 — Mfg 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 MF15 — 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 MF17 — 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 MF19 — 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 MF25 — 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 MF27 — 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 MF38 — MastercCAM 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 MF38B — 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 MF38C — 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 MF39 — 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 MF39B — 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 MF58 — 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 MF70 — 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 MF85 — 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 — PHOTOGRAPHY AND PHOTOGRAPHICS

VOC CPDI — 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 Lab

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 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 gravscale images.

VOC GRP16 — Digital Image Design

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 OuickTime 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 PH001 — 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: 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 PHO12 — 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 PHO20 — 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 CISCO — 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 MFAR — 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 SGL1 — 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 SGL2 — 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 AND THEATER ARTS

VOC THR14 — 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 THR15 — 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 THR16 — 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 THR18 — 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 THR19 — Theatrical Costuming

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.

VOC THR60 — Children's Theatre

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. Field trips are required.

OCCUPATIONAL — WELDING

VOC WL30 — 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 WL40 — Introduction to Welding

Fundamentals of welding processes related to the areas of fabrication, construction, machine tool, aerospace and the transportation industries.

VOC WL50 — Oxvacetylene Welding

Oxyacetylene fusion welding, non-fusion welding and cutting. Develops understanding of and fundamental skills in modern welding practices.

VOC WL51 — Basic Electric Arch Welding

Basic electric arc welding, weld symbols, standard electrode and alloy electrode selection, American Welding Society (A.W.S.) procedure for certification.

VOC WL53A — 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 WL60 — 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 WL70A — 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 WL70B — 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.

VOC WL70C — 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 WL80 — 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 WL81 — 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 WL90A — 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 WL90B — 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 WL91 — 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 WD01 — Woodworking - Beginning

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 WD02 — 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 WD03 — 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.

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
- 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, or Director of Student Life. An professor may also recommend that appropriate action be taken under provisions of the Administrative Regulations and Procedures on Student Discipline.

Plagiarism

"Plagiarism is a direct violation of intellectual and academic honesty. Although it exists in many forms, all plagiarism refers to the same act: representing somebody else's words or ideas as one's own. The most extreme forms of plagiarism are the use of material authored by another person or obtained from a commercial source, or the use of passages copied word for word without acknowledgment. Paraphrasing an author's idea or quoting even limited portions of his or her text without proper citation is also an act of plagiarism. Even putting someone else's ideas into one's own words without acknowledgment may be plagiarism. In none of its forms can plagiarism be tolerated in an academic community. It may constitute grounds for a failing grade, probation, suspension, or expulsion."

"One distinctive mark of an educated person is the ability to use language correctly and effectively to express ideas. Faculty assign written work for the purpose of helping students achieve that mark. Each instructor will outline specific criteria, but all expect students to present work that represents the student's understanding of the subject in the student's own words. It is seldom expected that student papers will be based entirely or even primarily on original ideas or original research."

"Therefore, to incorporate the concepts of others may be appropriate with proper acknowledgment of sources, and to quote others directly by means of quotation marks and acknowledgments, is proper. However, if a paper consists entirely of quotations and citations, the paper should be rewritten to show the student's own

understanding and expressive ability. The purpose of the written assignment (i.e., development of communication and analytic skills) should be kept in mind as each paper is prepared. It should not be evaded through plagiarism."*

* Adopted, with permission of California State University, Los Angeles, from their policy printed in the 1987-88 General Cataloa.

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**.
- Contact **Student Life Office** at **ext. 4525** to report incidents.

- Student Health Services provides personal counseling and medical attention.
- 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 Buildina 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:

- Causing, attempting to cause, or threatening to cause physical injury to another person.
- 2. Possession, sale or otherwise furnishing any firearm, knife, explosive or other dangerous object, including but not limited to any facsimile firearm, knife or explosive, unless, in the case of possession of any object of this type, the student has obtained written permission to possess the item from a College employee, which is concurred with by the College President/CEO.
- 3. Unlawful possession, use, sale, offer to sell, or furnishing, or being under the influence of any controlled substance listed in Chapter 2 (commencing with Section 11053) of Division 10 of the California Health and Safety Code, an alcoholic beverage, or an intoxicant of any kind; or unlawful possession of, or offering, arranging or negotiating the sale of any drug paraphernalia, as defined in California Health and Safety Code Section 11014.5.

- 4. Committing or attempting to commit robbery or extortion.
- 5. Causing or attempting to cause damage to College property or to private property on campus.
- 6. Stealing or attempting to steal College property or private property on campus, or knowingly receiving stolen College property or private property on campus.
- 7. Willful or persistent smoking in any area where smoking has been prohibited by law or by regulation of the College.
- 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 iniurv to any real or personal property owned by the College or on campus.
- 11. Disruptive behavior, willful disobedience, habitual profanity or vulgarity, or the open and persistent defiance of the authority of, or persistent abuse of, College personnel.
- 12. Cheating, plagiarism (including plagiarism in a student publication), or engaging in other academic dishonesty.
- 13. Dishonesty, forgery, alteration or misuse of College documents, records or identification; or knowingly furnishing false information to the College.
- 14. Unauthorized entry upon or use of College facilities.
- 15. Lewd, indecent or obscene conduct on College-owned or controlled property, or at College-sponsored or supervised functions.
- 16. Engaging in expression which is obscene, libelous or slanderous: or which so incites students as to create a clear and present danger of the commission of unlawful acts on College premises, or the violation of lawful College administrative procedures, or the substantial disruption of the orderly operation of the College.
- 17. Persistent, serious misconduct where other means of correction have failed to bring about proper conduct.
- 18. Unauthorized preparation, giving, selling, transfer, distribution, or publication, for any commercial purpose, of any contemporaneous recording of an academic presentation in a classroom or equivalent site of instruction, including but not limited to handwritten or typewritten class notes, except as permitted by any College policy or Administrative Procedure.
- 19. Harassment of students and/or College employees that creates an intimidating, hostile, or offensive environment.

College Policies and Notices

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.

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 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,

Violation	2006	2007	2008
Murder	0	0	0
Rape	0	0	0
Robbery	1	2	2
Assault	17	4	12
Weapons Violation	3	2	2
Hate Crimes	0	0	0
Arson	0	0	0
Burglary	11	8	6
Burglary from Vehicle	28	24	21
Theft	59	68	58
Theft from Vehicle	9	20	11
Stolen Vehicle (GTA)	26	16	17
Vandalism	16	26	15
Liquor Law Violations	1	1	2
Illegal Drugs	3	4	1
Yearly Totals	135	174	147

24 hours a day. During normal business hours, Public Safety may be contacted at Building 4, Room 105, or by calling ext. 4230. The Public Safety Department is located at the southeast portion of the campus off Bonita Drive in Building 48. Public telephone locations on campus have at least one phone that is equipped with a red emergency button that is a direct line to the Mt. SAC Public Safety Office during and after business hours. In the event of an emergency, students and staff are requested to make a prompt and accurate report to the Public Safety Department.

Enforcement

The Mt. San Antonio College Public Safety Department has the authority to enforce the Student Discipline Code of Conduct under the Education and Penal Codes of the State of California; and is the liaison with local police and sheriffs departments in cases of criminal actions.

Mt. San Antonio College District incident reports are not official police reports. If an official police report is required, the Los Angeles County Sheriffs Department in Walnut is the appropriate agency to contact.

Crime Prevention

The Public Safety Department's primary responsibility is the safety and security of all members of the College community. Every effort is made to inform students and staff of criminal activity or any other concern that may be an immediate threat to the safety and security of those on campus. Information and workshops on crime prevention are made available to College students and staff. It is the responsibility of every member of the campus community to act in ways that promote the safety of self, others, and the protection of District property.

Campus Emergency Phone System

Mt. San Antonio College has installed a campus wide emergency phone system. This system is divided into two primary segments. The inner campus system consists of emergency phones that are placed on the outside of selected campus buildings and are identified by the familiar blue light affixed to the top of the phone housing.

The second segment of emergency phones consists of stand-alone emergency phone towers, located in open campus spaces, primarily in campus parking lots. These phone towers are identified by a blue light affixed to the top of the tower.

Use of any of these emergency phones will connect the user to Campus Security during normal business hours, located in Building 4. During hours when the campus is closed, the Emergency phones will connect the user directly to a cell phone carried by Campus Security Officers who are on duty 24 hours a day, 7 days a week.

Student Rights and Privacy Act

Following is a summary of the Mt. San Antonio College policy related to the Family Educational Rights and Privacy Act of 1974, O.L. 93-380, and Chapter 1297, Statutes of 1976, State of California:

Access to Educational Records

All former and present students have the right to review and inspect their educational records in the Office of Admissions and Records provided they make a written request fifteen (15) days in advance. Such a review will be under the direct supervision of a classified or certificated employee in the Admissions and Records Office. Expressly exempted from the right of review and inspection are the following materials:

- 1. Financial records of the parents of the student(s).
- 2. Confidential letters and statements of recommendation maintained by the College on or before January 1, 1975, provided that such letters or statements are not used for purposes other than those for which they were specifically intended.
- 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

- 1. Any release of a student's educational records, with the exception listed below, must be made with the student's written consent.
- 2. The College may release copies of or otherwise divulge material in the student's educational records only to the official agencies, groups, officials, or individuals specifically mentioned below:
 - a. College staff members; provided that such employees have a legitimate educational interest to inspect such a record.
 - b. Representatives of the Comptroller General of the United States, the Secretary of Education, and administrative head of an educational agency, state education officials, and the United States Office of Civil Rights, where such information is necessary to audit a program.
 - c. Accrediting organizations in order to carry out their accrediting
 - Organizations conducting studies on behalf of the institution.
 - Officials of other schools or school systems in which the student seeks or intends to enroll subject to the rights of students.
 - f. Agencies or organizations in connection with a student's application for financial aid.
 - g. Organizations conducting studies for, or on behalf of, educational agencies or institutions for the purpose of developing, validating, and administering predictive tests, administering student aid programs, and improving instruction, if such studies are conducted in such a manner as will not permit the personal identification of students or their parents by persons other than representatives of such organizations and such information will be destroyed when no longer needed for the purpose for which it is compiled.
 - h. Appropriate persons in connection with an emergency if the knowledge of such information is necessary to protect the health and safety of the student or other persons.
 - Courts or other agencies in compliance with a subpoena or judicial order. A reasonable effort will be made to notify the student in advance of the compliance by the College.
- 3. Directory Information:
 - a. "Directory Information" means a student's name, community of residence, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous public or private school attended by the student.

College Policies and Notices

- b. Any student desiring to withhold "Directory Information" may file a written request with the Dean, Enrollment Management, within fifteen (15) days of the opening day of each semester or session that the student does not want such information released.
- 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: 28.39% Transfer Rate: 22.63% From 2004 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 2004, a cohort of all certificate-, degree-, and transfer-seeking first-time, full-time students were tracked over a three-year 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, 28.39 percent attained a certificate or degree or became 'transfer- prepared' during a three-year period, from Fall 2004 to Spring 2007. Students who are 'transfer-prepared' have completed 56 transferable units with a GPA of 2.0 or better.

Based on the cohort defined above, 22.63 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 1998 to Spring 2007.



Section 13

Faculty and Academic Administrators

The Faculty

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)

English, Literature & Journalism
B.A., M.A., California State University,
Los Angeles
M.A., California State Polytechnic University,
Pomona

Ph.D., University of Southern California

Ammirato, Joseph S. (1997)

Commercial and Entertainment Arts B.F.A., University of Utah

Anderson, Alison (2006)

Biological Sciences

B.S., California State University, Bakersfield M.S., California State Polytechnic University, San Luis Obispo

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

Aquino, Lloyd (2007)

English, Literature & Journalism

B.A., M.A. California State Polytechnic University,
Pomona

Arballo, Madelyn A. (1998)

Director, Adult Basic Education
B.A., Pitzer College
M.A., California State University, Los Angeles

Archibald, Jeffrev D. (2000)

Communication

B.A., Cornell University

M.S., Illinois State University

Arnold, Robert (2008)

Sign Language & Interpreting
B.A., California State University, Northridge
M.A., Gallaudet University

Arterburn, Pamela (1986)

Pomona

English, Literature & Journalism B.A., M.A., California State Polytechnic University,

Arvidson-Perkins, Genene (1988)

Nursina

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)

Director, ESL

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

Birca, Alina (2005)

Mathematics, Computer Science
B.S., University Alexsandru Ioan Cuza of Iasi
M.A., California State University, San Bernardino

Blackmore, Deborah L. (1974)

Dean, Physical Education

B.S., M.S., California State Polytechnic University, Pomona

Blake-Judd, Jemma (1990)

Associate Dean, Technology & Health
B.A., M.A., California State Polytechnic University,
Pomona

Blyzka, John V. (2001)

Computer Information Systems
B.S., University of California, Irvine
M.S., California State University, Fullerton

Boehner-Staylor, Maya (2001)

English, Literature & Journalism B.A., California State University, Los Angeles M.A., Northwest Missouri State University

Borella, Frances (1999)

Biological Sciences

A.A., Mt. San Antonio College

B.S., California State Polytechnic University, Pomona

M.A., Ph.D., University of California, Riverside

Boroch, Deborah J. (1990)

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

Boryta, Mark (2001)

Earth Sciences, Astronomy

B.A., Amherst College

M.S., Ph.D., New Mexico Institute of Mining and Technology

Bowen, Melinda (2006)

Physical Education/Head Coach, Women's Soccer B.A., California State Polytechnic, Pomona M.A., Azusa Pacific University

Bowen, Robert (2006)

Music

B.A., M.A., University of California, Santa Barbara M.F.A., Ph.D., Princeton University

Bower, Patricia M. (1990)

Learnina 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

Burgoon, Steve (2002)

Commercial and Entertainment Arts

B.A., University of Phoenix

M.A., California State Polytechnic University, Pomona

Burley, Virginia (1986)

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)

Dean, Continuing Education
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

Castillejos, Manuel (1989)

Foreian Lanauaaes

B.A., California State University, San Diego M.A., California State University, Fullerton

Cavion, Deborah (1994)

Physical Education

B.Ś., California State Polytechnic University, Pomona

M.A., Azusa Pacific University

Cevallos-Castaneda, Susana (2005)

Learnina Assistance

B.A., M.S., California State University, Fullerton

Chang, Chih-Ping (Andrew) (1997)

Foreian Lanauaaes

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

Charbonneau, David (2007)

Director, The Writing Center

M.A., Northern Illinois University

Ph.D., University of Wisconsin - Madison

Chavez, Dolores (2008)

Mathematics, Computer Science

B.A., University of California, Riverside

M.A., California State University, San Bernardino

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

Section 13

The Faculty

Chen, Meghan (2000)

Dean, Library & Learning Resources 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., Ph.D., California Institute of Technology

Churchill, Peter (2005)

English, Literature & Journalism B.A., M.A., California State University, Fullerton

Condra, Denise (2006)

Nursina

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)

Counselina

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

Degtyareva, Anna (1999)

Computer Information Systems

B.S., M.S., Leningrad University for Economics

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

Dougherty, Michelle (2007)

English, Literature & Journalism

B.A., M.A., California State Polytechnic University, Pomona

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

Ε

Earhart, Kimberly (2005)

History, Art History, Geography, Political Science A.A., Riverside Community College

B.A., M.A., Ph.D., University of California, Riverside

Eastman, Ralph M. (1980)

Theater

B.A., Antioch College, Ohio

M.A., Trinity College, Connecticut

M.F.A., University of California, Los Angeles

Eatman, Elisabeth (2006)

Consumer & Design Technologies

B.F.A., California State University, Long Beach

Edson, Thomas (2006)

Enalish, 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, Benjamin N. (1990)

Air Conditioning & Welding

A.A., Cerritos College

B.S., M.S., Eastern Michigan University

Ellwood, Jeffrey (2006)

Music

B.M., Berklee College of Music

M.M., California State University, Fullerton

Emanuel, Elaine S. (1998)

Office Technology

A.S., Mt. San Antonio College B.S., University of La Verne

M.A., University of Phoenix

Engisch, Paulette (2003)

Radiologic Technology

A.S., Mt. San Antonio College

B.S., University of St. Francis California

C.R.T., Certified Radiologic Technologist California

Certified Mammographer R.T., American Registry of Radiologic Technology

R.T. (M), American Registry of Mammography

Engle, Tim (2006)

Disabled Student Programs & Services B.S., Liberty University, Lynchburg, VA

M.A., Psy.D., Biola University, La Mirada

Psv.D., Biola University, La Mirada

Enke, Gary D. (1990)

Enalish, 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)

Enalish, Literature & Journalism B.A., M.A., California State Polytechnic University, Pomona

Ezzell, Sun (2006)

Learning Assistance B.A., M.A., Humboldt State University

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)

Nursina

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)

Associate Dean, Counseling B.S. University of California, Davis M.S., California State University, Fullerton Ph.D., University of Southern California

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

Frickert, Allison (2008)

History, Art History, Geography & Political

B.A., M.A., California State University, Fullerton

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, 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)

Aaricultural Sciences

B.S., Lake Erie College, Painesville, Ohio D.V.M., University of California, Davis

Garrett, Jean (1989)

Enalish, Literature & Journalism A.A., Mt. San Antonio College B.A., M.A., California State Polytechnic University, Pomona

Garrett, LeAnn (2001)

Librarian

B.S., University of Wisconsin – Stout M.L.I.S., Ph.D., University of Hawaii at Manoa

Garwick, Jennifer (2006)

Agricultural Sciences

B.S., California State Polytechnic University, Pomona

Gau, Jim (2000)

Computer Information Systems B.E., Feng Chia University M.B.A., California Lutheran University

Goff, Michael (1998)

Physical Education

A.A., Bakersfield College

B.A., M.A., Whittier College

Golestaneh, Kamran (2008)

Chemistry

B.S., B.S., M.S., California State Polytechnic University, Pomona

Gonzales, Barbara (2002)

Learnina Assistance

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

The Faculty

Halabi, Solene (2008)

Foreign Languages

M.A., California State University, Fullerton

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

Heard, Lance (2008)

Public Services

B.S., United States Military Academy, West Point M.S., University of Cincinnati

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)

Enalish, 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)

Counselina

A.A., Santa Ana Community College B.A., M.A., California State University, Fullerton

Hernandez, Marcella (2007)

Counselina

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 Lanauaae

A.A., Mt. San Antonio College

B.A., M.A., California State University, Fullerton TFSOL 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, Ruth 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)

Interim Director, RHORC

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

П

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.Á., University of Miami

M.S., University of Miami

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, Pomona

M.S., California State University, Fullerton

Johnson, Mary T. (1997)

Computer Information Systems B.A., California State University, Fullerton M.S., Azusa Pacific University

Johnson, Michelle (1998)

Mathematics, Computer Science B.S., M.S., University of California, Irvine

Jones, William D. (1992)

History, Art History, Geography, Political Science A.A., Mt. San Antonio College B.A., University of California, Los Angeles M.A., Ph.D., Claremont Graduate School

Judd, Matthew T. (1990)

Interim Associate Dean, Natural Sciences 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)

Learnina 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

Kevs, S. Carolyn (2001)

Dean, Student Services B.A., California State University, Fullerton M.B.A., National University, La Jolla

Khan, M. Zahir (1990)

Physics & Enaineerina 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)

Counseling

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. 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

Koiima, 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)

Nursing

B.S.N., M.S.N., California State University, **Dominguez Hills**

Kuykendall, Carolyn (2009)

Director, Honors Program M.A., Chapman University

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 Lanauaae

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

The Faculty

Lopez, Audra (2001)

Aaricultural 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

Lovd, Rene (1999)

Mathematics, Computer Science

A.S., Crafton Hills Community College

B.S., M.S., University of California, Riverside

Lujan, 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)

Enalish, 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, Pomona

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)

Learnina 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

Madrigal, Paulo (2009)

Interim Director, Community & Career Education

A.A., Mt. San Antonio College

B.S., California State Polytechnic University, Pomona

M.S., University of La Verne

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)

English, Literature & Journalism

B.A., M.A., California State Polytechnic University, Pomona

Ph.D., University of California, Irvine

Marano, Americo (1986)

Foreian Lanauaaes

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

Masoomian, Rasool (2001)

Business Administration

M.S., M.A., Ph.D., State University of New York

Mauch, Thomas (2005)

Dean, Counseling

B.A., California State Polytechnic University. Pomona

M.S., California State University, Fullerton

Maynard, Phillip D. (1990)

Communication

B.A., M.A., California State University, Fresno

Mbuthi, Stanley W. (1998)

Counselina

B.A., California State Polytechnic University.

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

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 Language

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 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

Ν

Nakamura, Amy Bates (2005)

Dance

B.A., California State University, Fullerton M.F.A., University of California, Irvine

Nassar, Sam (2007)

Counseling

B.A., California State Polytechnic University, Pomona

M.A., Azusa Pacific University

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

O'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

Olds, Jennifer (2008)

English, Literature & Journalism

B.A., M.A., California State Polytechnic University, Pomona

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)

Associate Dean, Business

B.S., California Polytechnic University, Pomona M.Div. St. Johns Theologic Seminary

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)

Counseling

M.S., California State University, Long Beach

Perez, Christopher G. (2008)

Mathematics & Computer Science

B.S., California State University, San Bernardino M.S., California State University, Los Angeles

Perez-Garcia, Julie (1999)

Counselina

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)

Nursina

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

Presch, Melissa (2008)

Biological Sciences

B.A., California State University, Fullerton M.S., California State University, San Bernardino

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

Quintana-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

The Faculty

Reille, Audrey (2006)

Director, Center of Excellence
M.B.A., California State University, San Bernardino
Ed.D., University of Southern California

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., Chaffev College

Richardson, Lanny (1995)

Air Conditioning & Welding

Rickard, Malcolm (2008)

Physics and Engineering
B.A., M.S., San Francisco University
Ph.D., University of Colorado

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)

Counselina, EOP&S/CARE

A.A., Santa Ana College

B.A., San Jose State University

M.S., California State University, Long Beach

Robinson, Carolyn (2006)

Learnina 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

F.A.A. Certificates; Flight Instructor, Airplanes & Instruments, Airline Transport Pilot

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)

Nursing

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)

Learning Assistance

B.S., California State Polytechnic University, Pomona

M.Ed., California Lutheran College

S

Sakugawa, Jamie (2008)

Aaricultural Sciences

B.A., California State Polytechnic University, San Luis Obispo

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/CARE

A.A., Glendale Community College

B.A., University of California, Los Angeles

M.S., University of La Verne

Sanchez, Lisbet (2008)

Foreign Languages

B.A., B.A., California State University, Los Angeles M.A., New Mexico State University

Sanchez, Juan (2005)

Physical Education

B.S., California State University, Los Angeles M.Ed., University of La Verne

Sardinas, Ignacio (2008)

Architecture and Engineering Design Technology
B.A., California State Polytechnic University,
Pomona

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)

Agricultural Sciences

A.S., Mt. San Antonio College

B.S., California State Polytechnic University,
Pomona

Scott, Sarah (2007)

Biological Sciences

B.S., University of Massachusetts, Amherst

M.S., University of Connecticut, Storrs

Shannon, Cynthia (1991)

Biological Sciences

A.A., Fullerton College

B.A., California State University, Fullerton

B.S., M.S., California State Polytechnic University, Pomona

Sharpe, Paul W. (1997)

Public Services

B.A., College of Santa Fe

M.S.W., California State University,

San Bernardino

Certified Substance Abuse Counselor, UCLA

Shepherd, John C. (1981)

Aircraft Maintenance & Manufacturina 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

Sloan, Sayedeh Omideh (2008)

Assistant Director, Adult Basic Education B.A., George Washington University M.A., Ph.D., University of California,

Santa Barbara

Smith, Bailey K. (2009)

Director, Learning Assistance Center B.A., University of California, Santa Cruz M.A., University of Wisconsin - Milwaukee

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 Conditionina, Weldina, & 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)

Counselina

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 Lanauaae

B.S., Howard University

M.S., Ph.D., Georgetown University

Stone, James (2008)

History, Art History, Geography

& Political Science

M.A., University of Kentucky

M.F.A., Ph.D., Chapman 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

M.A., Ph.D., University of South Carolina

Swartz, Pauline (2006)

Librarian

B.A., University of Califonria, Santa Cruz MLIS, University of California, Los Angeles

Swift, Crystal Lane (2008)

Communication

B.A., California Baptist University

M.A., Ball State University

Ph.D., Louisiana State University

T

Takashima, Timothy (2000)

Mathematics, Computer Science

B.S., M.S., California State University, Long Beach

Tamayo, Santiago (Jimmy) (2002)

Mathematics, Computer Science

B.S., California State Polytechnic University.

M.S., University of California, Riverside

Tatoian, Vahe (1990)

Physics, Enaineerina

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)

Manager, ESL Instructional Support

B.S., University of Northern Colorado

M.S., Colorado State University

Thomas, Antoine (2006)

Counseling

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

The Faculty

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-Phuong (2005)

Counseling

B.A., University of California, San Diego

Tran. Frank (2002)

Mathematics, Computer Science B.S., University of California, Davis

M.A., University of California, Santa Barbara

Trejo, Lyssette (2009)

B.A., California State University, Fullerton M.S., University of La Verne

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

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.Á., 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

Waters, Dawn (2008)

Agricultural Sciences

B.S., California State Polytechnic University,

Pomona

M.Ed., University of La Verne

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

Whalen, Margaret F. (1989)

Enalish. 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,

M.A., California State University, Fullerton

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)

. Counselina

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, Jill Y. (1998)

English, Literature & Journalism B.A., University of California, Irvine M.A., Ph.D., Claremont Graduate University

Wright, Joan Susan (2005)

Counseling, Adult Basic Education B.A., M.S., California State University, Fullerton

Υ

Yamagata-Noji, Audrey (1996)

Vice President, Student Services B.A., M.S., California State University, Long Beach Ph.D., Claremont Graduate University

York, Jean (1999)

Consumer Science & Design Technologies B.S., California State Polytechnic University, M.P.H., University of California, Berkeley

Young, Paula (2008)

Mathematics, Computer Science B.S., M.S., University of California, Riverside

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 M.S.H.S.-H.P.E., Western University C.E.N. - Certified Emergency Nurse

C.F.R.N. - Certified Flight Registered Nurse

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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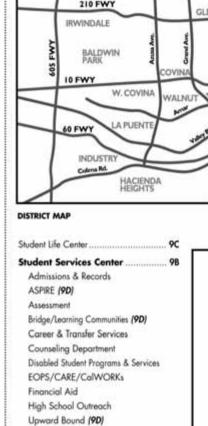
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	Heating/Air Conditioning	69
	High School Referral/Adult Diploma Programs 32, 33 &	38A-B
	History/Geography/ Political Science	26D
	Horticulture Units	F1
	Hospitality	19B
	Humanities/Social Sciences Division Office	66
	Humanifies	8 & D
	Information Technology	
	Interior Design	20
	Journalism	26D
	Landscaping/Irrigation Lab	
	Language Learning Center	
	Learning Technology Center Campus Events KSAK Radio	6
	Learning Assistance Center Library Media Services	
	Staff Development Tutorial Services/Supervised Tutor TV Production/Broadcasting	ing
	Weekend College	

	Livestock Pavilion	F9
	Maintenance/ Facilities Management	47
	Math & Science Bldg	
	Math Tutoring	
	Mental Health Faculty Offices	
П		
Π	Mountie Stop	
	Music	2
	Natural Sciences Division Office	61
	Nutrition	198
	Older Adult Programs	36
	Parking Office (Permits)	4
	Performing Arts Center Box Office	
	Dance Studio	
	Music Recital Hall	
	Sophia B. Clarke Theater	
	Studio Theater	
	Physical Education Division Office	46
	PE Center	27C
	PE Center/Gym	3
	PE Center Field House	50G
	PE Pool	
	PE Studio	21
	Photographics	21
	Picnic Area/Restrooms	F1A
	Planetarium Programs	26C
it	Prime Stop	
	Public Safety (Security)	
	Receiving/Transportation	
	Regional Health Occupations	
	Resource Center	35
	Science Laboratories Building	60
	Science - NORTH	11
	Science - SOUTH	7
	Security (Public Safety)	23

Student Health



Veteran's Affairs Swine Barn...

Teacher Prep. Institute...

Technology & Health

Division Office

Welding/Air Conditioning.

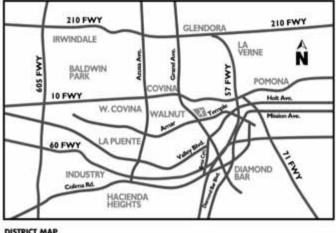
Telecommunications...

Wellness Center.

67B

WIN [Student Athlete

Tutorial Center)... Writing Center...







DAY-USE PERMIT DISPENSER



HANDICAP PARKING



30 MINUTE PARKING



F4

26A

28A/B

23

69

27A

. 45

268

PARKING METERS



VAN ACCESS SERVICES



FOOD/SUPPLIES



EMERGENCY* BLUE PHONE



OUTDOOR PUBLIC PHONE

'NOTE: ONE PHONE AT EACH LOCATION IS SET-UP FOR AUTO DIAL TO SECURITY AT NO CHARGE FOR EMERGENCY ONLY Envised 6/9/09





The images displayed on the covers of this Catalog highlight the eclectic mix of historic, traditional and contemporary architecture as well as the horticultural gems that one sees on Mt. SAC's sprawling 420-acre campus. Not only is Mt. SAC one of California's largest college campuses, it is fast becoming an aesthetic treasure.

Nestled below the San Jose Hills with Mt. San Antonio (Mt. Baldy) looming above, the campus is undergoing a major transformation with new and renovated facilities, tasteful landscaping, high-tech laboratories, and "greener" operating systems, thanks to construction bonds passed by local voters.

This comprehensive campus improvement effort speaks to Mt. SAC's commitment to build for the future by providing an inviting state-of-the-art environment that fosters innovative instruction and learning.

HEALTH CAREERS CENTER
67B

MT. SAC

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